FINAL
Data Gap Report No. 2

REMEDIAL INVESTIGATION, FEASIBILITY STUDY, PROPOSED PLAN, AND DECISION DOCUMENT

FORMER DOW AIR FORCE BASE
AVIATION FUEL FILTER/DRUM/TCE DISPOSAL AREA
FORMERLY USED DEFENSE SITE (FUDS)
Bangor, Maine

FUDS Property and Project Number D01ME0004 02

March 2025

Prepared for

U.S. Army Corps of Engineers
New England District
696 Virginia Road
Concord, MA 01741

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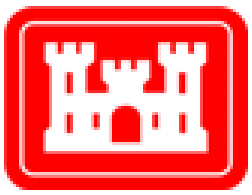


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A Conceptual Site Model
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D Monitoring Well Survey Results
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LIST OF ACRONYMS

ADR	Automated Data Review
BAI	Bangor International Airport
bgs	Below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COI	Constituent of Interest
COPC	Contaminant of Potential Concern
CSM	Conceptual Site Model
DERP	Defense Environmental Restoration Program
DO	Dissolved Oxygen
DoD	Department of Defense
DPT	Direct Push Technology
DU	Decision Unit
EDD	Electronic Data Deliverable
EPA	Environmental Protection Agency
FS	Feasibility Study
FUDS	Formerly Used Defense Sites
GPR	Ground Penetrating Radar
GPS	Global Positioning System
IDW	Investigation Derived Waste
ISM	Incremental Sampling Methodology
MCL	Maximum Contaminant Level
mg/kg	milligram per kilogram
mL	milliliter
MW	Monitoring Well
NAE	New England District
NTU	Nephelometric Turbidity Unit
ORP	Oxidation-Reduction Potential
PAHs	Polycyclic Aromatic Hydrocarbons
PAL	Project Action Level
PCB	Polychlorinated Biphenyls
PID	Photoionization Detector
PVC	Polyvinyl Chloride
PWS	Performance Work Statement
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Site Plan
RAWP	Risk Assessment Work Plan
RQD	Rock Quality Designation
RI	Remedial Investigation
RSL	Regional Screening Level
SEDD	Staged Electronic Data Deliverable
SL	Screening Level
SOP	Standard Operating Procedure
SVOC	Semi-Volatile Organic Compound
TAL	Target Analyte List
TCE	Trichloroethylene
TCLP	Toxicity Characteristic Leaching Procedure

LIST OF ACRONYMS (CONT.)

THQ	Total Hazard Quotient
UFP	Unified Federal Policy
USACE	U.S. Army Corps of Engineers
USCS	Unified Soil Classification System
µg/kg	microgram per kilogram
µg/L	microgram per liter
VC	Vinyl Chloride
VOC	Volatile Organic Compound

1.0 INTRODUCTION

This Data Gap Report No. 2 has been prepared by Mabbett & Associates, Inc. (Mabbett) for the U.S. Army Corps of Engineers (USACE), New England District (NAE) under Contract Number W912WJ-19-D-0005, Delivery Order W912WJ-22-F-0106. The Phase III Remedial Investigation (RI) field program was performed under the Defense Environmental Restoration Program (DERP) for Formerly Used Defense Sites (FUDS) for the Former Aviation Fuel Filter/Drum/Trichloroethene (TCE) Disposal Area at the Former Dow Air Force Base located at 233 Odlin Road in Bangor, Penobscot County, Maine (the Site) (Figure 1-1). The FUDS Property and Project number for this Site is D01ME0004 02. The Phase III RI field program was conducted in accordance with the USACE-approved Uniform Federal Policy-Quality Assurance Project Plan (UFP-QAPP), dated July 2023. This data gap report was preceded by Data Gap Report No. 1, which was submitted to the USACE in February 2025 (USACE, 2025).

1.1 Objective

The objective of this Data Gap Report, as defined in the DOW FUDS Performance Work Statement (PWS), is to present the raw data collected during the Phase III RI field program, prepare tables comparing laboratory analytical data to project action levels, develop Site plans and geological cross sections depicting the spatial distribution of contaminants detected, and identify data gaps (if any) warranting additional field data collection.

1.2 Site Description

The Site is located approximately 3 miles west of the City of Bangor, immediately to the south of Bangor International Airport (BIA). The BIA property, which includes the Site, was originally developed in 1921 as a municipal airfield but acquired by the U.S. Government in the early 1940s for use as an Army air base in support of the war effort. The facility was operated as a Department of Defense (DoD) asset until April 1, 1968, when it was transferred to the City of Bangor and returned to civilian air services. The Site lies beyond the current airport fencing; however, the Site previously was within the original Airfield perimeter. The Site is not used for BIA's day-to-day operations.

Additional details on the Site, background, and previous investigations are included in Attachment A of this report, which provides an update of the Conceptual Site Model (CSM) that was presented in the UFP-QAPP (USACE, 2023). Previous investigations, including a 2008 Site Investigation (SI), a 2017 Phase I RI, and a 2018 Phase II RI identified debris disposal areas and filled portions of the FUDS Project Area that exhibit contaminant levels above risk-based screening levels (SLs). These debris disposal and filled areas may have contributed to the degradation of groundwater and sensitive ecosystems located downgradient or down-slope from the release location. Figure 1-2 details the Site layout and the Decision Unit (DU) locations established to characterize the nature and extent of impacts from historical fill and disposal operations.

1.3 Scope of Investigation

This Data Gap Report provides a description of field tasks, and a summary of analytical data collected during the Phase III RI from September 2023 to September 2024, with a specific focus on deep subsurface soil and groundwater investigative activities completed during the Sonic drilling program. This Data Gap Report was preceded by Data Gap Report No. 1, which was specifically focused on surface soil incremental sampling methodology (ISM) and shallow subsurface soil investigative activities completed during the direct push drilling program between July and October 2023 (USACE, 2025). The field investigations that were described in the previous Data Gap Report included the following:

- Identification and clearance of underground utilities including an extensive stormwater system network via Dig-Safe and a ground penetrating radar (GPR) survey.
- Collection of surface soil samples using ISM.

- Advancement of direct push technology (DPT) soil borings and collection of discrete subsurface soil samples.
- Advancement of soil borings adjacent to the underground utility corridor via hand drill, collection of soil samples, and collection of groundwater samples via temporary well points installed adjacent to the underground utility corridor.

Mabbett continued the Phase III RI sampling program into 2024. These field investigation activities are the focus of this Data Gap Report No. 2 and included the following:

1. Advancement of twelve soil borings using Roto-Sonic Drilling technology (sonic drilling) and collection of discrete soil samples from the 2-foot interval above the bedrock surface.
2. Completion of the twelve soil borings as permanent 2-inch diameter monitoring wells with 10-foot screen intervals centered on the bedrock-overburden interface.
3. Well development, stabilization, and hydraulic conductivity testing of the newly installed monitoring wells.
4. Rehabilitation of existing monitoring wells.
5. Groundwater sampling of new and existing on-site monitoring wells.

The work described in this Data Gap Report was conducted by Mabbett in accordance with the USACE-approved UFP-QAPP (USACE, 2023). The overall goal of these reports is to identify data gaps that need to be addressed to prepare a Comprehensive Environmental Response Compensation and Liability Act (CERCLA)-compliant RI and Feasibility Study (FS) as the basis for a proposed plan and decision document to define Site remedy selection.

1.4 Schedule

The collection of field samples occurred between September 10, 2023 and September 18, 2024. The following table provides a summary of the duration of field investigations. Daily reports prepared summarizing the field activities completed during each day of the investigation are provided in Attachment B.

Activity	Start Date	End Date
Site Reconnaissance, markout of sonic boring locations, and vegetation clearing	8/31/2023	8/31/2023
*Sonic drilling, soil sampling, and monitoring well installation	9/10/2023	2/20/2024
*Well development, well stabilization, and hydraulic conductivity testing of the newly installed monitoring wells	9/21/2023	2/23/2024
Groundwater sampling (spring/high water round)	4/22/2024	4/25/2024
Groundwater sampling (summer/baseline water round)	6/25/2024	6/27/2024
Groundwater sampling (autumn/low water round)	9/16/2024	9/18/2024

*Indicates there were days in between the start and end date when no field activities were conducted.

Environmental samples were submitted to Katahdin Analytical Services, LLC in Scarborough, Maine (Katahdin) for laboratory analysis. Katahdin provided draft data packages and environmental data deliverables (EDDs). Mabbett reviewed and validated the analytical data, uploading validated data and data validation reports to FUDSCHEM.

1.5 Data Gap Report Organization

The remainder of this Data Gap Report is organized as follows:

Section 2.0 - Preliminary Site Work. This section describes the preparatory work completed by Mabbett in advance of field investigations, which included a mark out of sonic boring/monitoring well locations and vegetation clearing to provide access to the drilling locations for heavy equipment.

Section 3.0 - Sonic Drilling and Soil Sampling Activities. This section provides a description of the sonic drilling and subsurface soil sampling activities completed during the Phase III RI.

Section 4.0 - Monitoring Well Installation and Development Activities. This section provides a description of the monitoring well installation, monitoring well development, well stabilization, and hydraulic conductivity testing activities completed for the Phase III RI.

Section 5.0 - Groundwater Sampling Program. This section provides a description of the groundwater sampling conducted for the new and existing monitoring wells.

Section 6.0 - Data Summary and Analysis. This section presents the data collected during the field investigation, including tables of laboratory analytical results compared to applicable SLs and a summary of hydraulic conductivity analyses. This section also discusses data Quality Assurance/Quality Control (QA/QC), data review, data validation, and preliminary data usability findings.

Section 7.0 - Conclusions and Recommendations. This section provides summary-level conclusions based on the interpretation of data collected during the Phase III RI, identifies data gaps that must be filled to achieve the established objectives of the Phase III RI, and provides recommendations for additional work.

Section 8.0 - References. References cited in this Data Gap Report.

Tables and figures are referenced throughout and provided at the end of this report.

Attachments including the CSM update (Attachment A), daily field reports (Attachment B), field log sheets (Attachment C), monitoring well survey results (Attachment D), AQTESOLV outputs (Attachment E), and investigation derived waste (IDW) documentation (Attachment F) are provided following the tables and figures.

Laboratory data reports, Staged Electronic Data Deliverable (SEDD) files, and data validation reports are available for review and download from the FUDSCHEM portal and are not included in this Data Gap Report.

2.0 PRELIMINARY SITE WORK

This section provides a summary of preliminary Site work completed by Mabbett to prepare for the Phase III RI field activities covered in this Data Gap Report.

2.1 Sonic Boring Locating Activities

On August 31, 2023, A global positioning system (GPS) unit was used to locate the approved monitoring well drilling locations. The approved monitoring well locations were then marked using pre-labeled wooden stakes and flagging tape by field personnel.

Several of the monitoring wells were located within the woods east of Hildreth Road and required vegetation clearing, including clearing of underbrush and fallen logs while avoiding the downing of mature trees, and road improvements to access the sampling locations. The downing of mature trees was avoided due to environmental protection considerations, including potential impacts to the Federally-endangered Northern Long-eared Bat (*Myotis septentrionalis*). The focus of clearing was to clear the understory to enable the movement of personnel and equipment to surface soil sampling and monitoring well drilling locations. Tree snags posing as trip hazards were removed for safety reasons.

During monitoring well locating activities, SB-308 and SB-312 were offset from the initially approved locations due to a mature pine stand. MW-303 was moved 10 feet to the south to avoid an underground utility line. Additional details on the relocation of these soil borings/monitoring wells are provided in Section 4.4.1.

2.2 Vegetation Clearing

Following boring mark out activities, Maine Tree and Landscape of Bangor, Maine cleared a vehicle path and the drilling areas to allow access for the sonic drill rig to the proposed monitoring well locations. Maine Tree and Landscape used a Gyro-Trac brush hog to clear underbrush and fallen logs while avoiding the downing of mature trees.

3.0 SONIC DRILLING AND SOIL SAMPLING ACTIVITIES

The sonic drilling and monitoring well installation program was designed to field-verify geophysical survey interpretations of bedrock surface elevations throughout the FUDS Project Area and evaluate the presence/absence of constituents in deep subsurface soil and overburden groundwater. Sonic drilling was selected for this program as it allows for high recovery core sampling through overburden and bedrock, depth to bedrock confirmation, and installation of wells screened across the overburden-bedrock interface, with minimal generation of soil cuttings.

Monitoring well locations were pre-selected based on the results of the 2017 geophysical survey and data collected during the 2008 SI and 2017 Phase I RI. A total of 12 sonic boring locations were proposed in the QAPP. Eight of the 12 locations were completed between September 11 and September 22, 2023. The last four locations, adjacent to wetlands and therefore inaccessible in high water conditions without significant additional environmental controls, were unable to be completed in September 2023 due to uncharacteristically high water conditions and the remnants of a tropical storm that impacted eastern Maine. These four borings were completed between February 12, 2024 and February 20, 2024 to target frozen ground conditions and minimize potential impacts to wetlands. Figure 3-1 shows the locations of the 12 monitoring wells installed during the 2023-24 sonic drilling program.

Mabbett subcontractor Cascade Environmental (Cascade) of Northborough, Massachusetts advanced soil borings while conducting continuous core sampling using a single-tube core barrel and overriding steel casing. Boring advancement was completed in 10-foot runs using diamond bit coring procedures through the cased borehole. Each soil boring was advanced 5 feet into bedrock to measure the depth of the bedrock-overburden interface across the Site. The observed depth to bedrock in the twelve borings varied between 14 feet below ground surface (bgs) and 50 feet bgs and appears to dip to the south-southwest and towards an elevation low with an axis extending approximately from the MW-301 to the MW-309 locations, based on sonic drilling depths to bedrock.

During the advancement of each boring, soil samples were collected in 10-foot polyethylene (poly) sleeves within the single tube core barrel. Upon retrieval of each poly core, Mabbett removed a portion of the poly sleeve to collect representative aliquots of soil, where present, for field screening analysis using a photo-ionization detector (PID), and to describe the stratigraphy of subsurface materials. For overburden samples, the soil description, Unified Soil Classification System (USCS) symbol, Munsell codes, field screening results, sample recovery, and sample time were recorded on a sample log sheet, copies of which can be found in Attachment C.

During the advancement of the single-tube core barrel into bedrock, the following parameters were logged on separate field sheets: penetration times and rates, bit rotation, and pull down/hold back pressure. Bedrock cores, once recovered from the poly sleeves, were screened using a PID inserted through the sample collection bag. The bedrock cores were logged in accordance with ASTM D2113-14 methodology. Rock Quality Designation (RQD) percent, fracture frequency, fracture surface characteristics and fillings, rock types, bedding plane characteristics, were recorded on the drilling logs. Copies of the drilling logs can be found in Attachment C.

One, approximately 5-gram, discrete soil sample was collected from approximately 1 foot above the bedrock surface in each boring for volatile organic compound (VOC) analysis using a disposable coring device. The soil was then directly ejected from the coring device into a 40-milliliter (mL) vial containing 5 mL of methanol. An additional discrete sample was collected from the remaining soil in the 2-foot core for laboratory analysis of polycyclic aromatic hydrocarbons (PAHs) and Target Analyte List (TAL) metals. Soil samples were labeled, placed in an iced cooler, and delivered by courier to Katahdin on the following day. Subsurface QA/QC samples were collected as proposed in the QAPP, Worksheet #18 (USACE, 2023). A summary of soil analytical data and comparison of results to SLs is provided in Section 6.0.

4.0 MONITORING WELL INSTALLATION AND DEVELOPMENT ACTIVITIES

This section provides a field narrative of groundwater monitoring well installation and development activities completed during the Phase III RI and includes a discussion of deviations from the QAPP.

4.1 Monitoring Well Installation

To assess whether disposal area contaminants have migrated into the deep overburden groundwater, twelve groundwater monitoring wells were installed during the Phase III RI. See Figure 3-1 for the locations of new monitoring wells. Monitoring wells MW-301 through MW-312 were installed between September 12 and September 20, 2023 and between February 12 and February 20, 2024 at depths ranging from 9 feet bgs to 54 feet bgs. Table 4-1 summarizes monitoring well installation dates, screened intervals of the newly installed wells, the anticipated top of bedrock based on the 2017 geophysical survey, and the encountered top of bedrock.

Sonic borings were advanced using a track-mounted Boart Longyear® drilling rig. Cores were collected to observe and document overburden soil stratigraphy and bedrock lithology, determine the depth to the water table, and select the depth interval for monitoring well screens. Monitoring wells were installed with 10 feet of 0.10-inch slotted polyvinyl chloride (PVC) screen with the bottom 5 feet of the screen installed into bedrock and top 5 feet of the screen extending into the deep overburden till layer above bedrock. Sonic boring logs are provided in Attachment C.

Monitoring wells were completed with at least 6 inches of either clean filter pack material or bentonite chips placed at the bottom of the borehole to serve as a firm base for the well. The well casing was then secured to the well screen and placed into the borehole. Silica-based sand pack was placed around the 0.10-inch slotted well screen up to 1 foot above the top of the screen and a bentonite pellet seal was placed on top of the sand pack. The annular space around the casing was then grouted with cement to about 1-foot-bgs. Each well, except MW-302, was finished with an approximately 3-foot stickup PVC riser and well casing with a sand and gravel pack at the ground surface around the casing, rather than a concrete pad, to avoid frost heave damage. MW-302, located on the former tarmac, was completed with a flush-mount protective cover and surface concrete pad.

4.2 Monitoring Well Development and Stabilization

After allowing sufficient time for the well materials to cure (at least 24 hours), the monitoring wells were developed by Cascade using a whale pump to remove residual materials from the installation process and to establish a connection with the formation. Approximately 20 to 40 gallons of water were removed from each newly installed monitoring well during development. Excess water generated during well development was containerized into 55-gallon drums.

Following development by Cascade, the monitoring wells were surged to remove drilling fluids and fine-grained formation material for the purpose of enhancing the well screens' connectivity with the surrounding aquifer. Using two surge blocks spaced 3 feet from each other, 3/8-by-1/2 inch polyethylene tubing, a foot valve, a water level indicator, and a Waterra Hydrolift Pump Tubing Actuator, the wells were surged using 10 to 20 up/down cycles for roughly 30 minutes per 3-foot interval. The cycles yielded approximately 0.25 gallons per minute of purge water. During surging, the depth to water, purge rate, turbidity, and total gallons purged were measured every 5 minutes and recorded onto well development log forms (Attachment C).

Following well surging, the monitoring wells were purged with a whale pump until water quality parameters were stable. During purging, water quality parameters, including temperature, pH, ORP, specific conductivity, and turbidity were measured every 5 minutes with a YSI water quality meter. Stabilization was considered achieved three consecutive readings were within ±3 percent for temperature, ±0.1 standard unit for pH, ±10 percent for ORP, ±3 percent for specific conductivity, and ±10 percent nephelometric turbidity units (NTU) for turbidity. Water quality parameters were recorded on well development log sheets (Attachment C).

During well development and stabilization, data was collected for hydraulic conductivity analysis for each monitoring well. During the purging period, each well was equipped with Onset® HOBO® U20-001-02 data loggers to record the water level within the well at 1-second intervals. Water levels were manually gauged during the purging period at 5-minute intervals. The data was later analyzed for hydraulic conductivity using AQTESOLV Pro, Version 4.5 and is potentially biased due to the use of well development data. A discussion of hydraulic conductivity data and analysis is further presented in Section 6.6.

4.3 Monitoring Well Survey

On July 16, 2024, a groundwater elevation survey was conducted by Plisga and Day Land Surveyors of Bangor, Maine, and included the viable existing wells, as well as the 12 newly installed monitoring wells. The elevation of each well component (ground surface, top of riser, top of outer casing) was measured during the survey. A plan showing the results of the monitoring well survey is provided in Attachment D.

4.4 Deviations from the QAPP

Several minor deviations to the methods and procedures established in the QAPP were implemented during the field investigation as discussed below.

4.4.1 Modifications to Monitoring Well Locations

Three monitoring well locations were adjusted in the field prior to installation:

- The proposed location of SB-303/MW-303, located in the northeast portion of the FUDS Project Area, was moved 10 feet to the south just past the tree line, further into the FUDS Project Area, to reduce risk of a utility strike on the underground storm drain line.
- The proposed location of SB-308/MW-308 was determined to be in standing water in the center of a localized wetland. The location was moved several feet to the north to facilitate access by the drilling rig and avoid potential damage to the wetland.
- The proposed location of SB-312/MW-312R was located within a dense stand of pine trees impeding the drilling rig from reaching the area. The new location, SB-312R, was placed approximately 20 feet south to avoid having to clear mature trees.

The proposed modified locations of MW-308 and MW-312 were documented in email correspondence to the USACE Project Manager (PM) on September 7, 2023. The USACE PM provided feedback from the USACE Project Delivery Team (PDT) on September 8, 2023 and the final locations of these monitoring wells were reviewed in the field and agreed upon between Mabbett's lead geologist and USACE's geologist on September 11, 2023 (see Daily Progress Report No. 19). The relocated SB-303 was also reviewed and agreed upon by Mabbett and USACE in the field on September 11, 2023.

4.4.2 Modifications to Monitoring Well Construction

The QAPP proposed that the bedrock core portion of the borehole be grouted in place prior to installation of the well screen, immediately above the overburden/bedrock interface. During advancement of the first monitoring well (SB-301/MW-301) on September 12, 2023, the USACE field representative requested the monitoring wells be set at the bottom 10 feet of the boring, with the middle of the screen set at the overburden/bedrock interface. This revised approach was implemented in an effort to increase the likelihood of capturing chlorinated VOCs that may have accumulated at the bedrock interface, exhibited dense non-aqueous phase liquid (DNAPL) behavior, traveled along the overburden-bedrock interface, and partially penetrated bedrock. This field change is documented in Daily Progress Report No. 20 for work completed on September 12, 2023.

Standard Operating Procedure (SOP) 5 in the QAPP specified that newly installed monitoring wells were to be grouted from the top of the sand pack to the ground surface. Following the installation of MW-301, the USACE

field representative requested that all stickup wells (excluding MW-302 installed on the former tarmac) be finished with a sand and gravel pack surface seal rather than a concrete pad. This decision was made to prevent the upward displacement (frost heaving) caused by the freezing of the Presumpscot clay, a massive glaciomarine mud comprised of unweathered bedrock minerals, which has high moisture retention. This field change is documented in Daily Progress Report No. 20 for work completed on September 12, 2023.

4.4.3 Modification to Monitoring Well Development Procedures and Data Analysis

The Field Sampling Plan in the QAPP specified that groundwater monitoring wells would be developed by Cascade, with Mabbett oversight, using the drill rig master pump and surge block assembly, with the option of utilizing a dual-surge block assembly if necessary. Following installation of the first set of monitoring wells, it became apparent that the screened intervals had a higher transmissivity than expected. Due to higher than anticipated transmissivity, which would generate larger volumes of IDW, Mabbett and USACE agreed on September 21, 2023 that monitoring well development with a surge block assembly attached to a Waterra Hydrolift Pump (Tubing Actuator) and a high frequency manual water level data would be a more effective approach.

The new approach required a change to achieve well stabilization. To determine when development was complete, as demonstrated by field parameter stabilization, a whale pump setup with a YSI water quality parameter meter was used to measure groundwater quality parameters every 5 minutes. Stabilization was considered to be achieved when three consecutive readings were within ±3 percent for temperature, ±0.1 standard unit for pH, ±10 percent for ORP, ±3 percent for specific conductivity, and ±10 percent NTU for turbidity.

The water level data was analyzed to estimate hydraulic conductivity using AQTESOLV Pro, Version 4.5 instead of with the United States Geological Survey (USGS) Purge Analyzer Tool, a Microsoft Excel macro, as specified in the QAPP due to cybersecurity risk concerns associated with running externally downloaded macros. Purging data from the well development process was used to estimate hydraulic conductivity, as it delivered the cleanest drawdown curves. Transducer data from wells with the least noise and the fewest spikes was chosen, with little bias towards pumping or recovery data.

5.0 GROUNDWATER SAMPLING PROGRAM

This section provides a field narrative of groundwater sampling activities completed during the Phase III RI.

5.1 Monitoring Well Gauging

On April 22, 2024, Mabbett inspected the Site and assessed the condition of new and existing monitoring wells in preparation for the first of three groundwater sampling events included in the scope of the Phase III RI. MW-11 was presumed destroyed due to its proximity to Hildreth Street North. The last known sampling of MW-11 was the SI investigation in 2008 (USACE, 2008). In addition, frost-heave damage of the PVC riser was observed at SI monitoring wells MW-23 and MW-8. All other wells, which include the existing monitoring wells and the twelve newly installed wells, appeared to not have any damage or integrity concerns.

Prior to each of the Phase III RI groundwater sampling events, the static depth to groundwater at the five existing SI monitoring wells, MW-3 installed by GZA in 1990 and MW-5, MW-8, MW-20, and MW-23 installed by Watermark in 2008, and the twelve newly installed wells were measured using a water level indicator with 0.01-foot accuracy. Measurements were taken from the top of each well's PVC casing. Groundwater contour maps were generated for the April, June, and September 2024 field events using depth to groundwater and elevation survey data. Based on these measurements, the inferred direction of groundwater flow within the FUDS project area is from the northwest to the southeast (Figure 5-1 through Figure 5-3).

Groundwater sampling rounds were completed in April, June, and September 2024 to represent baseline, high-water, and low-water conditions. The inferred direction of groundwater flow within the FUDS project area was consistent throughout the three seasons, generally following a bedrock topographic low trending northwest/southeast extending throughout the Site. The inferred groundwater flow direction and the bedrock contours are shown on Figures 5-1 through 5-3.

Initial water levels in the April 2024 gauging event were collected using a water level indicator. Subsequent rounds of water levels in June and September were measured using a YSI Oil-Water Interface Probe. No LNAPL was detected in any of the monitoring wells during the June and September gauging rounds.

Total well depths were measured during all three groundwater sampling events and were compared between events. Total well depth comparisons provide an indication of the amount of siltation that may have occurred into the well. Moreover, measuring the depth to the bottom of a well provides a verification of the integrity of the well casing. Corrosion can cause leaking or collapse of the well casing, which could lead to water-level measurements that are not representative of the true piezometric head at that location. Corrosion, silting, and biofouling can clog well screens and result in a sluggish response or no response to water-level changes, as well as changes in groundwater chemistry. If wells become excessively compromised, redevelopment or replacement may be needed to ensure accurate collection of a representative water-quality sample (EPA, 2002).

Total well depths measured during groundwater sampling were consistent from April to September, with the maximum change in total well depth occurring in MW-312R from 42.95 feet in April to 42.58 feet in September. The average decrease across all 17 wells was 0.12 feet. See Table 5-1 for specific total depths measured for each well in April, June, and September.

Further interpretation of this data will be presented in the Remedial Investigation (RI) Report for the Site.

5.2 Groundwater Sampling

From April 22 through April 25, 2024, June 25 through June 26, 2024, and September 18, 2024 Mabbett collected groundwater samples from each of the twelve newly installed monitoring wells and five existing monitoring wells (MW-3, MW-5, MW-8, MW-20, and MW-23) installed during the 2008 SI (USACE, 2008). Monitoring well locations are shown on Figure 3-1. Prior to the collection of each groundwater sample, the static depth to groundwater was measured using an oil-water interface probe. Mabbett then installed dedicated ¼-inch diameter polyethylene

tubing to a depth corresponding to the approximate midpoint of the water column at each well. The polyethylene tubing was connected to a short length (<1 foot) of flexible dedicated silicone tubing, which was inserted into the peristaltic pump head.

Prior to groundwater sampling, a PID was used to determine presence of volatile organic compounds. The PID screening was conducted for the June and September groundwater sampling events and on the final day of the April groundwater sampling event. There were no positive field screening readings at the wellheads.

In accordance with the QAPP (Appendix A, SOP 9), Mabbett purged and collected groundwater samples via the low-flow purge method using a peristaltic pump and recorded real-time water quality measurements with a field-calibrated YSI water quality meter equipped with a flow-through cell (connected to the discharge end of the peristaltic pump tubing). Water quality measurements recorded during purging included temperature, pH, oxidation-reduction potential (ORP), specific conductivity, dissolved oxygen (DO), and turbidity. Measurements recorded during well purging were recorded onto field forms, which are included in Attachment C.

Mabbett purged each groundwater well until the water quality measurements, recorded every 3 to 5 minutes, had stabilized according to the Environmental Protection Agency (EPA) Region 1 low-flow guidance (USEPA, 2017). Stabilization was considered achieved after pH, specific conductivity, and turbidity had stabilized for three successive readings. Stabilization was considered achieved if the three consecutive readings were within ±0.1 standard unit for pH, ±3 percent for specific conductivity, and ±10 percent NTU for turbidity. Upon stabilization, the sampler disconnected the tubing from the influent end of the flow-through cell in order to collect samples directly from the pump discharge into laboratory-supplied glassware.

Groundwater samples were collected for laboratory analysis of VOCs, PAHs, TAL metals (filtered and unfiltered), and hexavalent chromium. Samples for VOC analysis were collected first, followed by containers for other analyses. Samples collected for dissolved metals were field filtered using dedicated disposable laboratory-supplied sterile 0.45-µm membrane filters. Groundwater samples were labeled, placed in an iced cooler, and delivered by courier to Katahdin on the following day. A summary of groundwater analytical data and comparison of results to SLs is provided in Section 6.0.

6.0 DATA SUMMARY AND ANALYSIS

This section presents a preliminary screening of analytical data collected during the Phase III RI with the screening levels identified in the UFP-QAPP (Worksheet #15). SLs and their hierarchy for the risk assessments are discussed further in the Risk Assessment Work Plan (RAWP) (Appendix E of the UFP-QAPP). A more detailed evaluation of these data will be provided in the RI report along with other data collected for this Site (e.g., direct push technology soil sampling data).

6.1 Data Table Format

The laboratory data for both soil and groundwater samples are presented in the following tables:

- Table 6-1 Comparison of Sonic Drilling Subsurface Soil Analytical Results to Screening Levels
- Table 6-2 Comparison of Groundwater Analytical Results to Screening Levels

In each table, where applicable, laboratory data are compared with the SLs approved on Worksheet #15 of the UFP-QAPP (USACE, 2023). Non-detect results are reported to the limit of detection and flagged U (LOD U). Detected results at concentrations above SLs are highlighted in the tables and discussed briefly in Section 6.3. These results will be evaluated in more detail in the risk assessment sections of the RI report.

The SLs and their sources are discussed in the following subsection. The remaining subsections briefly discuss the data and the findings. An evaluation of completeness and potential data gaps as they related to the risk assessments and an evaluation of the nature and extent of contamination will be provided in the RI Report.

Laboratory data reports, SEDDs, and data validation reports are available for review and download from the FUDSCHEM portal and are not included in this Data Gap Report.

6.2 Screening Levels

The SLs approved in the UFP-QAPP are presented in Tables 6-1 and 6-2 and are used to provide context to the detected results. Further evaluation of the detected concentrations will be provided in the risk assessment sections in the RI. The risk assessments may also use more recent SLs, if they are updated before the data are used for the risk assessments. Detected concentrations above the SLs may warrant additional evaluation. The risk assessment will not be conducted until the Site is fully characterized and the data set determined to be robust enough for the risk assessments. The first steps in the risk assessment process are to compare the results to background results and appropriate SLs to determine which analytes should be carried through a more detailed risk assessment.

The following SLs were used for comparison to analytical results for each sample matrix. Full references are provided in Section 8.

6.2.1 Soil Screening Criteria

The QAPP text erroneously stated the soils screening criteria are the 2022 EPA Soil Regional Screening Levels (RSLs) for soil based on a total hazard quotient (THQ) of 0.1. However, the QAPP tables reference the FUDSCHEM approved EPA Soil RSLs based on a THQ of 1.0. Mabbett compared sonic drilling soil analytical results to the 2022 EPA Soil RSLs based on a THQ of 1.0, consistent with Data Gap Report #1. The THQ of 1.0 is used in this Data Gap Report to identify potential risk drivers, whereas a THQ of 0.1 will be used in the risk assessment to screen for contaminants of potential concern.

The QAPP text stated screening levels for soils would be the lowest of the available screening levels and used as the project action level (PAL) on Worksheet #15. However, the 2018 USEPA Region 4 Ecological Soil Screening Levels are not applicable to subsurface soil samples and are therefore not considered in the comparison to SLs in this Data Gap Report.

6.2.2 Groundwater Screening Criteria

Consistent with the QAPP, groundwater samples were compared to the 2022 EPA Tap Water RSLs based on a THQ of 1.0 and the 2022 EPA Maximum Contaminant Levels (MCLs) for drinking water. For groundwater, of the available SLs for each constituent, the lowest criterion was selected as the SL.

6.3 Preliminary Screening of Analytical Data

This section provides a summary of the preliminary screening of analytical data collected during the field investigation.

6.3.1 Subsurface Soil Data

A comparison of subsurface soil analytical data to SLs is presented in Table 6-1. A brief discussion of the subsurface soil analytical results is presented in this section.

VOCs. Detections of VOCs in subsurface soil samples were extremely limited. 2-hexanone, bromomethane, and toluene were detected slightly above reporting limits in subsurface soil samples collected from sonic borings. 2-hexanone was detected in the sample collected from SB-308R, bromomethane was detected in the sample collected from SB-306, and toluene was detected in the samples collected from both SB-306 and SB-309. Acetone was detected above reporting limits in five subsurface soil samples. Acetone is considered a laboratory contaminant. None of these detections were above SLs. No chlorinated VOCs were detected in deep subsurface soil samples above laboratory reporting limits.

PAHs. Several PAHs were detected above laboratory reporting limits in the subsurface soil samples collected from SB-303 (11-13 feet bgs), SB-306 and its duplicate (20-21.5 feet bgs), and SB-311 (12-14 feet bgs). These detections represent the shallowest sonic boring samples within the extent of historical fill (i.e., most likely to be impacted by historical fill placement). None of these PAHs were detected above SLs. There were no PAHs detected in the other nine subsurface soil samples collected from sonic borings.

Metals. Arsenic was detected above the EPA RSL for residential soil of 0.68 milligrams per kilogram (mg/kg) in all of the soil samples collected from sonic borings. There were no other exceedances of SLs. Metals detections were consistent within one order of magnitude throughout each soil boring, with no apparent spatial pattern, suggesting the concentrations of metals detected in the 2-foot interval above bedrock are consistent with background concentrations.

6.3.2 Groundwater Data

A comparison of groundwater analytical data collected during the April, June, and September 2024 groundwater sampling events to SLs is presented in Table 6-2. The locations of SL exceedances in groundwater are shown on Figure 6-1.

VOCs. Thirteen VOCs were detected in groundwater samples, most were only slightly above laboratory reporting limits. Detection limits for eight non-detected VOCs, such as 1,2,3-trichloropropane, also exceeded SLs. Benzene, chloroform, TCE, and vinyl chloride (VC) were the only VOCs detected at concentrations exceeding their SL.

- Benzene was detected in all three groundwater samples collected from MW-303 at concentrations of 1.8 µg/L (April), 1.1 µg/L (June), and 1.1 µg/L (September), all of which exceeded the EPA RSL for Residential Tap Water of 0.46 µg/L.
- Chloroform was detected in only one of the three samples collected from MW-303 at a concentration below the reporting limit (the detection was flagged with a J qualifier), however the detected concentration exceeded the EPA RSL for Residential Tap Water. Chloroform was not detected in any of the other groundwater samples collected during the Phase III RI.

- TCE was detected in the groundwater samples collected from MW-303 at concentrations of 0.73 µg/L (April), 1.2 µg/L (June), and 1.1 µg/L (September, average of field duplicates), all of which exceeded the EPA RSL for Residential Tap Water of 0.49 µg/L. TCE was also detected in the June and September samples collected from MW-311; the concentration detected in the June sample was equivalent to the RSL, whereas the concentration detected in the September sample exceeded the RSL. Both of these results were below the reporting limit and flagged with a J qualifier. The maximum concentration of TCE detected in groundwater samples was 1.2 µg/L, which is below the EPA maximum contaminent level (MCL).
- VC was detected in all three of the groundwater samples collected from MW-303, MW-309, and MW-311 at concentrations that exceeded the EPA RSL for Residential Tap Water of 0.019 µg/L. The maximum concentration of VC detected in groundwater samples was 2.0 µg/L, which is equivalent to the EPA MCL.

The VOC analytical results obtained during the three seasonal sampling rounds were very similar, with no obvious seasonal trend observed.

PAHs. There were no PAHs detected above laboratory reporting limits in any of the groundwater samples collected during the April, June, or September 2024 sampling events.

Total Metals. Total arsenic, manganese, and thallium were detected above SLs in at least one groundwater sample.

- Total arsenic was detected above the EPA RSL for Residential Tap Water in all three of the groundwater samples collected from MW-302, MW-303, MW-305, MW-306, MW-311, and MW-312R; and in the September sample collected from MW-309. Detected concentrations ranged from 3.2 µg/L in the sample collected from MW-305 in June to 31.0 µg/L in the sample collected from MW-303 in June. The concentration of arsenic exceeded its MCL of 10 µg/L in in groundwater samples collected from MW-303, MW-306, MW-311, and MW-312R. The reporting limits for arsenic were above the EPA Tap Water RSL of 0.052 µg/L.
- Total manganese was detected in every groundwater sample collected during the Phase III RI. The concentrations detected ranged from 2.5 µg/L in the sample collected from MW-304 in September to 3,680 µg/L in the sample collected from MW-303 in June. Total manganese was detected above its EPA RSL of 430 µg/L in 13 of the 17 monitoring wells that were sampled during the Phase III RI. There is no EPA MCL established for manganese.
- Total thallium was detected at a concentration exceeding the EPA RSL for Residential Tap Water (but below the EPA MCL) in one sample of the duplicate pair collected from MW-303 in September. There were no other positive detections of total thallium in any of the groundwater samples collected during the Phase III RI. The reporting limit for total thallium was higher than the RSL but lower than the MCL.

The total metals analytical results obtained during the three seasonal sampling rounds were very similar, with no obvious seasonal trend observed.

Dissolved Metals. Consistent with total metals results, dissolved arsenic, manganese, and thallium were detected above SLs in at least one groundwater sample. SL exceedances were generally consistent with those described for total metals results. Dissolved metals concentrations detected in groundwater samples were similar to total metals concentrations.

Hexavalent Chromium. Hexavalent chromium was detected in at least one of the samples collected from MW-5, MW-301, MW-304, MW-309, and MW-312R at a concentration exceeding its EPA Tap Water RSL of 0.035 µg/L. The maximum concentration of hexavalent chromium detected was 0.571 J µg/L. Hexavalent chromium does not have an established MCL.

6.4 Quality Assurance/Quality Control

Environmental samples were collected and analyzed to refine the CSM, provide inputs to the human health and ecological risk assessments, and provide a technical basis to develop remedial alternatives for the FS. Quality control and quality assurance procedures specified in the UFP-QAPP were used at each step in the data collection process.

6.4.1 Data Review and Validation

This project was designed to be fully compliant with the FUDSCHEM database and its reporting requirements. At the QAPP and electronic QAPP preparation stage, laboratory methods, reporting limits, and QC limits were entered into the FUDSCHEM database along with screening levels and data validation parameters and action criteria. This was done to allow FUDSCHEM to perform an ADR and to generate flagging codes providing QC information to the data validator and user. Based on the findings from the ADR, a manual review of approximately 5 percent of the data was conducted to verify ADR flagging and to identify significant systematic issues that may not have been identified in the ADR.

The laboratory reported the data through FUDSCHEM and it was validated by Mabbett and has been approved by USACE. The data used to generate the tables presented and discussed in Section 6.0 were exported directly from FUDSCHEM and includes all of the qualifiers that were applied through the data review/validation process. In advance of receiving the data in FUDSCHEM and ADR-compliant formats, a manual review was performed on the reported data. This review included a check of the following items in the data packages:

- Completeness of the requested numbers of samples and analyses
- Case narrative
- Reported QC results
- Sample results
- Laboratory flagging codes

The data validation did not identify significant or systematic laboratory issues that would significantly affect the reported data. Where appropriate, the laboratory used flagging codes to explain the results (e.g., U = non-detect) or to identify QC results that did not meet criteria. Laboratory flagging codes are provided on the tables reported in Section 6.0 and the laboratory definitions are included in the notes of the tables. Based on the data review/validation, the data set was determined to be sufficient for the purposes of evaluating the nature and extent of constituents on the Site and sufficient for use in the human health and ecological risk assessments that will be performed as a part of the RI for this Site.

6.4.2 Data Usability

Based on the review/validation of data packages and the reported results, the data set is sufficient for the purposes of defining the nature and extent of contamination on the Site and sufficient for human health and ecological risk assessment calculations. A detailed usability analysis will be presented in the RI Report.

6.5 Hydrogeologic Cross Section

Data collected during soil and groundwater sampling activities was used to create hydrogeologic cross sections presented on Figures 6-2 (Cross Section Locations) 6-3 (A-A'), 6-4 (B-B'), 6-5 (C-C'), and 6-6 (D-D'). Included in the hydrogeologic cross-sections are PAH exceedance depths, overburden soil stratigraphy, surface elevation data, and groundwater elevation data. Cross sections further depict the status of PAH delineation throughout Site subsurface soil.

6.6 Hydraulic Conductivity Analysis

The 1991 GZA Final Field Report documented hydraulic conductivity values between 0.06 and 0.2 feet/day for select overburden wells located across a larger project area encompassing the Site (GZA, 1991). Of the wells in the GZA report, only MW-3 is both within the Site and currently functional as a groundwater monitoring well. Former monitoring well MW-2, installed by GZA in 1990 and referenced in the 1991 report, was historically present at the approximate location of MW-20. MW-6 and MW-8, also installed by GZA and referenced in the 1991 report, were installed in the GZA "landfill" just outside of the FUDS project area and differ from the Site MW-8 referenced elsewhere in this Data Gap Report. The hydraulic conductivity data from the 1991 report is pertinent to this section as the wells referenced are screened in the overburden and are located within or near the FUDS Project Area and are considered representative of Site geologic materials.

The overburden wells are exclusively screened within the Presumpscot formation; a massive unweathered silty clay of glacio-marine origin, varying from 10 to 25 feet in thickness sitewide. The composition includes small fragments of minerals including quartz, feldspar, and mica. The USGS modeled horizontal and vertical hydraulic conductivity in the Presumpscot formation. The reported horizontal conductivity was $6.2x10^{-3}$ feet per day and vertical hydraulic conductivity was 1.4×10^{-4} to 5×10^{-6} feet per day (Nielsen and Locke, 2012).

These values were higher than established literature values for the Presumpscot formation ($2X10^{-5}$ to $2x10^{-2}$ feet/day), however they were similar to literature values for Biddeford Silt Loam Soils (0.1 to 0.5 feet/day), a weathered form of the Presumpscot formation (GZA, 1994).

The pressure transducer data collected during well development was interpreted to estimate the hydraulic conductivity of the deep overburden aquifer. Since the pressure transducer data was incidentally collected during well development activities, and not from an aquifer testing specific effort, the data interpretation was limited by a lack of background water level data collection and variable whale pump extraction rates. Water level data for each of the 12 wells was reviewed and data was selected for hydraulic conductivity analysis based on data smoothness, well recovery prior to end of data collection, and pumping rates. Only the data considered adequately representative was analyzed to estimate hydraulic conductivity, however the use of well development data for hydraulic conductivity analysis is potentially unrepresentative of actual aquifer properties and may be biased as a result.

Calculated hydraulic conductivities are presented in comparison to literature and 1994 SI values in Table 6-3. Where MW-301 had multiple drawdown or recovery datasets suitable for hydraulic conductivity analysis using an individual method, the average value for the method is presented for that location. Preliminary results from the 2024 well development activities indicate that values range from 0.002 to 14.905 feet/day, although values are clustered between one and fifteen feet/day, significantly higher than 1994 SI values for shallow overburden or literature values for Site geologic materials. Attribution of hydraulic conductivity values to specific hydrostratigraphic units such as till, the Presumpscot formation, or the Brewer Formation is not possible as wells were screened across multiple hydrostratigraphic units and Brewer Formation siltstone is susceptible to fracturing during sonic drilling activities, impairing fracture density interpretation. Calculated hydraulic conductivities suggest the bedrock-overburden interface may be more transmissive than the overlying geologic materials, however values may not be representative of actual aquifer properties due to the use of well development data in lieu of a dedication slug testing or pumping test effort.

Mabbett assessed groundwater vertical gradients in the potential source areas of the Site between the Presumpscot clay and deep overburden/bedrock wells and found them to be negligible. Additional shallow overburden wells would need to be installed to compare vertical gradients in the downgradient portion of the FUDS Project Area, but this data is unlikely to affect project decisions due to a paucity of SL exceedances in groundwater not attributable to naturally occurring or upgradient sources in this portion of the project area.

Supporting documentation for the preliminary hydraulic conductivity analysis is included in Attachment E. Further results from the hydraulic conductivity analysis, including the evaluation of alternate solutions, will be presented in the RI Report.

6.7 Investigation Derived Waste Management

Solid IDW generated during the sonic drilling investigation included soil cuttings from sonic drilling and used personal protective equipment (PPE). Liquid IDW generated during the investigation included well development water, well purge water, and liquids used for decontamination of equipment.

6.7.1 Characterization and Profiling of IDW

Two representative composite samples, one each for solid and aqueous IDW, were collected on September 21, 2023 and submitted to Katahdin for laboratory analysis. The solid-phase IDW sample was submitted for laboratory analysis of VOCs, semi-volatile organic compounds (SVOCs), pesticides, herbicides, metals by the Toxicity Characteristic Leaching Procedure (TCLP) and for corrosivity (pH) and ignitability analysis. The liquid-phase IDW sample was submitted for laboratory analysis of VOCs, SVOCs, organochlorine pesticides, herbicides, metals, corrosivity (pH), and flashpoint analysis. Additional solid-phase and aqueous composite samples were collected from soil and water on October 12, 2023 and submitted to Katahdin for laboratory analysis for per- and polyfluoroalkyl substances (PFAS) via EPA Method 1633. The laboratory data reports for these samples are provided in Attachment F.

Soil IDW characterization sampling data covered IDW generated from the advancement of DPT borings in DU01 through DU06 and sonic borings advanced to install monitoring wells MW-301, MW-302, MW-303, MW-304, MW-305, MW-306, MW-307, and MW-311. Aqueous IDW characterization sampling data covered IDW generated from monitoring well development of monitoring wells MW-301, MW-302, MW-303, MW-304, MW-305, MW-306, MW-307, and MW-311 and from redevelopment and well rehab of monitoring wells MW3, MW5, MW8, MW20, and MW23. The IDW characterization samples collected on September 21 and October 12 of 2023 were used to develop two Resource Conversation and Recovery Act (RCRA) non-hazardous waste profiles for the IDW, one for soil and one for water. These waste profiles are provided in Attachment F.

Additional waste characterization samples were collected on February 22, 2024 following the installation and development of monitoring wells MW-308R, MW-309, MW-310, MW-312R. The purpose of these samples was to confirm that the September/October 2023 data used to develop the non-hazardous waste profiles was still representative of the entire volume of IDW generated during the project. The solid-phase IDW composite sample was submitted for laboratory analysis of VOCs, SVOCs, pesticides, herbicides, metals by TCLP and for corrosivity (pH) and ignitability analysis. The liquid-phase IDW composite sample was submitted for laboratory analysis of VOCs, SVOCs, organochlorine pesticides, herbicides, metals, corrosivity (pH), and flashpoint analysis. The laboratory data report for these samples are provided in Attachment F.

In consultation with waste management subcontractor Strategic Environmental Services (SES) of Sutton, Massachusetts, the analytical results of the February 2024 IDW samples were sufficiently similar to the September/October 2023 data that the original profile did not need to be revised. Furthermore, the aqueous IDW sampling results were considered representative of the purge water generated during the April 2024 groundwater sampling event. Therefore, all IDW generated through the first groundwater sampling round was

6.7.2 Transportation and Off-Site Disposal of IDW

Transportation and off-site disposal of IDW was performed on May 15, 2024. At the time of the IDW pickup, there were fifty-two (52) 55-gallon drums stored on-Site consisting of 23 drums of soil cuttings, 28 drums of purge waters, and a single drum containing decontamination rinsate fluids that was classified as mixed soil/water waste. Six of the drums containing aqueous IDW were bulging due to extended periods of freezing weather. Some empty drums had been kept at the Site to support ongoing investigations. A sump pump was used to transfer water from

the bulging drums into these empty drums and the damaged drums were decontaminated. In addition, four drums contained a very small volume of soil (less than 5 gallons). Soil from these drums was consolidated into one drum and the newly emptied drums were decontaminated. The rinsate collected during the washing process was contained within the single drum containing mixed soil/water.

After IDW overpacking and consolidation activities, 19 drums containing soil IDW and 25 drums containing aqueous IDW were shipped off Site by EQ Northeast, Inc., working under contract with SES, to Wayne Disposal in Belleville, Michigan. The ten decontaminated drums were transported to Corey Recycling of Orrington, Maine for recycling. Non-hazardous waste manifests and recycling tickets are provided in Attachment F.

At the time of this writing, there are three 55-gallon drums of IDW remaining on the Site. Two of these drums contain purge water generating from monitoring well sampling conducted in June and September 2024 and the third drum contains mixed soil/water and rinsate material generated during decontamination of damaged drums. Aqueous IDW is being characterized based on the validated groundwater analytical results from the sampling conducted in April, June, and September. Mixed soil/water waste is being characterized based on the analytical results of IDW waste characterization samples collected in September/October 2023, as the material is comprised is both soil and water generated from investigative activities during the Phase III RI. Off-site shipment of these wastes is on hold pending USACE review and approval of waste profiles.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The following problem statement was developed for the QAPP to guide investigation activities:

> *Historical environmental investigations and other available military documentation suggest that VOCs, PAHs, polychlorinated biphenyls (PCBs), and metals may have been released to the environment in the Aviation Fuel Filter/Drum/TCE Disposal Area FUDS. For these constituents of interest (COIs):*
>
> *1) Additional characterization and delineation are needed to assess potential releases from DoD operations.*
>
> *2) The nature and extent of impacts has not been fully delineated.*
>
> *3) Whether constituents have migrated and via which pathways has not been determined.*
>
> *4) Associated human and ecological risks have not been evaluated.*
>
> *5) The extent to which COIs are present due to historical FUDS-related activities is unresolved.*

The 2008 SI and 2017/2018 Phase I and initial Phase II RI investigations focused on identification and characterization of specific areas within the Dow Disposal Site, to identify constituents that may present human health or ecological risk that would require an immediate removal action, and general characterization of conditions across the FUDS Project Area and in its immediate downgradient vicinity. The Phase III RI was designed to expand on these prior investigations to adequately characterize soil and overburden groundwater within the FUDS Project Area following previous removal actions, to assess the possibility of downgradient migration, and to understand Site conditions relative to non-FUDS-related factors such as background or upgradient releases. The following objectives were developed to provide the basis for the Phase III RI field program:

Goal 1: Determine whether there are concentrations of COIs (VOCs, PAHs, PCBs, and/or metals) above risk-based screening criteria in soil within and adjacent to the six identified potential source areas.

Goal 2: Determine whether COIs are present on the Site in downgradient media (unfilled areas of upland soil and wetland soil) at concentrations that suggest COIs may have migrated from the Historical Fill Areas portion of the Site. Specifically, downgradient media could be impacted by an identified potential source area or an additional, as yet, unidentified and uncontrolled source area(s).

Goal 3: Determine whether constituents, particularly those that are prone to downward migration, such as chlorinated solvents, are present in subsurface soils and overburden groundwater.

Goal 4: Assess the depth and thickness of the low permeability layers and the condition of the bedrock surface for evidence of weathering that could serve as a potential migration pathway to and within bedrock. Evaluate overburden hydrogeology and controls on groundwater flow to determine contaminant migration pathways in the overburden aquifer.

Goal 5: Determine the regional natural and anthropogenic background concentrations of COIs from “Native Areas” (with no history of military use or evidence of fill) located beyond the FUDS Project Area. Perform a statistical comparison of constituents in the FUDS Project Area with background.

Goal 6: Estimate the potential risks to human health and ecological receptors associated with exposure to FUDS-related contaminants of potential concern (COPCs) under current and reasonably anticipated future land use scenarios.

Goal 7: Investigate the identified storm drain corridor as a potential preferential migration pathway, especially for more mobile constituents, such as chlorinated VOCs.

The portion of the Phase III RI that is documented in this Data Gap Report addresses Goals 3 and 4. Goals 1, 2, 5, and 7 were addressed in Data Gap Report No. 1. Goal 6 will be addressed after the nature and extent of contamination has been delineated and a sufficiently robust data set has been developed to support the baseline risk assessments.

7.1 Summary of Deep Subsurface Soil Analytical Data

Thirteen discrete soil samples, from twelve locations and one duplicate sample, were collected during the sonic drilling program from deep subsurface soils encountered at the overburden/bedrock interface. PID readings were collected during sonic drilling activities and were mostly very low to non-detect. The limited number and magnitude of VOC detections in deep subsurface soil samples do not suggest that a release of VOCs occurred in this area or that the till layer above bedrock contains significant levels of VOCs.

PAHs and metals (except arsenic) were not detected above EPA Residential Soil RSLs in any of the deep subsurface soil samples. Arsenic is a naturally occurring element and is generally found at higher concentrations in leaching and eroding sedimentary rocks. Despite the exceedances of arsenic, it is not believed that the exceedances were caused by residual impacts from the historical disposal of fuel filters and other debris remaining throughout the filled portion of the FUDS Disposal Area. The groundwater parameters collected during groundwater sampling at wells with increased arsenic detections did not indicate acidic and/or reducing environments. The consistent detections of metals indicate the source of the detections could be natural and not associated with historical DoD operations at the Site.

The sample depth intervals located in the till overlying bedrock range from 11-13 feet bgs to 48-49.5 feet bgs. The till is overlain by the thick, dense, high plasticity with a low permeability Presumpscot clay layer between the historical fill layer at 1-3 feet bgs and the deep till just above bedrock. Based on the nature of the Presumpscot materials and the lack of contaminants detected in deep subsurface soil samples, it is unlikely that a transport pathway exists between the historical fill material and the till/bedrock.

7.2 Groundwater Sampling

This report contains data from three synoptic groundwater sampling rounds included in the Phase III RI scope. The first sampling event occurred during the high-water season (April 2024), the second event occurred during the summer/baseline water season (June 2024), and the third event occurred during the autumn/low season (September 2024). No statistical analysis was performed due to the small sample size, but the analytical results of groundwater samples collected in all three rounds were comparable with no obvious seasonal fluctuations.

VOCs and metals detected in groundwater samples collected were infrequently above SLs and PAHs were not detected in groundwater samples. Vinyl chloride was detected above the EPA Tap Water RSL of 0.019 µg/L in samples collected from three monitoring wells (MW-303, MW-309, and MW-311). The maximum concentration detected was equivalent to the MCL for vinyl chloride (2.0 µg/L). TCE and benzene were also detected at concentrations slightly exceeding their SLs, but below MCLs, in the samples collected from MW-303.

MW-303 and MW-311 were installed across the overburden-bedrock interface at a bedrock topographic high near the northeast Site boundary. The spatial pattern of VOC detections may indicate preferential chlorinated solvent transport downslope along the overburden-bedrock interface (southwest from MW-303 and MW-311 to MW-306) instead of down the groundwater elevation gradient (southeast). However, the low concentrations detected in groundwater samples do not indicate the presence or persistence of DNAPL in groundwater of the FUDS Project Area, and the high ratio of VC to TCE suggests a largely naturally attenuated, or distally upgradient source area.

The absence of VOC detections indicative of a release to soil or surface water in the FUDS Project Area suggests contamination can be attributed to either an upgradient source outside of the FUDS Project Area or a naturally attenuated source. Further investigation activities to the north and east of MW-303 and MW-311, a more temporally comprehensive groundwater dataset, and additional hydraulic conductivity data would be useful to

fully understand VOC detections in these monitoring wells. However, these low-level sporadic VOC detections are unlikely to pose a human health risk to any downgradient risk receptors.

Total and dissolved arsenic and manganese were the only metals detected in groundwater samples above SLs in more than one sample (the reporting limits for arsenic were above the EPA Tap Water RSL). Samples collected from eight monitoring wells had detections above arsenic SLs and samples collected from 12 monitoring wells had detections above manganese SLs.

Arsenic and manganese are naturally occurring metals in groundwater, however it is notable that arsenic concentrations did not exceed screening levels, and manganese concentrations trended lower, in monitoring wells located in the upgradient portion of the FUDS Project Area: MW-3, MW-5, MW-8, MW-20, MW-23, MW-301, and MW-304. Arsenic and manganese detections above SLs had no clear correlation with field measured pH, ORP, or DO values recorded during sampling activities, suggesting that these SL exceedances are unlikely to be due to localized groundwater chemistry fluctuations mobilizing metals from natural soils.

Further, reported manganese and arsenic concentrations generally trend higher with increased upgradient groundwater travel path length within a historic fill area, such as in groundwater samples from the northwesternmost portion of the Site. Therefore, it is possible groundwater becomes increasingly impacted by these metals as it flows under the FUDS Project Area and precipitation leaches from overlying fill to groundwater. However, the temporal extent of arsenic and manganese detections above SLs have not been established and the lateral extents of these concentrations above SLs are unbounded to the north, east, and south of the FUDS Project Area. Therefore, a longer-term and more spatially extensive dataset would be needed to determine if the potential source areas or BIA fill are sources of arsenic and/or manganese to Site groundwater.

Hexavalent chromium was detected in groundwater samples collected from MW-5, MW-301, MW-304, MW-309, and MW-312R exceeding the EPA Tap Water RSL. Hexavalent chromium is a Site COC due to the historical, and field verified, presence of chrome yellow paint. SL exceedances were primarily in groundwater samples collected from the filled portions of the Site, but two samples collected from the downgradient portion of the Site also exceeded RSLs. Continued monitoring and potential additional assessment of hexavalent chromium is recommended to delineate the extent of contamination.

7.3 Goals Achieved and Data Gaps

Goals 3 and 4 have been addressed based on the results of the deep subsurface soil samples collected during the sonic drilling program and one round of groundwater sampling. There does not appear to be a significant vertical transport pathway for contaminants present in historical fill material to reach groundwater. This opinion is supported by the lack of contamination in till material at the overburden/bedrock interface and the presence of Presumpscot formation materials between the fill layer and till/bedrock that appears to restrict the downward movement of contaminants.

Additional data could be collected to evaluate overburden hydrogeology and controls on groundwater flow to strengthen the understanding of contaminant migration pathways in the overburden aquifer. This additional data could include:

1) Hydraulic conductivity data from wells screened exclusively in Site till, Presumpscot formation, and Brewer Formation to determine hydrostratigraphic unit-specific hydraulic conductivities and evaluate likely contaminant migration pathways.

2) Groundwater and overburden soils data north of the FUDS Project Area to determine if BIA fill or other upgradient sources are driving SL exceedances for arsenic, manganese, TCE, and VC.

3) Water level data from north of the FUDS Project Area to determine if BIA fill impacts are upgradient or side gradient of the FUDS Project Area.

Data collected during 2023-2024 have been used to update the CSM, which is provided in Attachment A.

8.0 REFERENCES

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TABLES

Table 4-1
Monitoring Well Installation Dates, Screened Intervals, Anticipated Encountered Bedrock Depths
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

MW ID	Installation Date	Screen Interval (ft bgs)	Anticipated Top of Bedrock (ft bgs)*	Encountered Top of Bedrock (ft bgs)
MW-301	9/13/2023	30-40	12.00	35
MW-302	9/12/2023	19-29	11.25	24
MW-303	9/19/2023	9-19	11.00	14
MW-304	9/14/2023	25-35	14.30	30
MW-305	9/13/2023	27-37	11.60	32
MW-306	9/14/2023	16-26	11.90	21
MW-307	9/18/2023	22-32	14.70	27
MW-308R	2/13/2024	25-35	12.70	30
MW-309	2/15/2024	44-54	15.50	49
MW-310	2/14/2024	32-42	17.50	37
MW-311	9/20/2023	10-20	12.60	15
MW-312R	2/20/2024	30-40	10.10	35

*Anticipated bedrock depths inferred from the bedrock elevation/bedrock fracture: Hager-Richter Geoscience, Inc. Surface Geophysical Surveys Report, April 2021.

Table 5-1
Comparison of Total Well Depths for the April, June, and September 2024 Sampling Events
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

Well ID	MW-3	MW-5	MW-8	MW-20	MW-23	MW-301	MW-302	MW-303	MW-304
Total Well Depth (in feet)									
April-24	12.82	15.24	15.03	15.32	15.15	43.43	28.75	21.83	38.13
June-24	12.90	16.49	14.99	15.10	15.10	43.00	29.00	22.74	37.95
September-24	12.97	15.32	15.02	15.19	15.14	43.14	28.72	21.93	37.53

Well ID	MW-305	MW-306	MW-307	MW-308R	MW-309	MW-310	MW-311	MW-312R
Total Well Depth (in feet)								
April-24	38.63	27.80	34.45	36.10	57.85	42.25	21.75	42.95
June-24	38.85	28.00	34.90	36.05	58.25	41.75	21.85	42.49
September-24	38.58	27.68	34.46	35.81	57.84	41.89	21.57	42.58

Table 6-1
Comparison of Sonic Drilling Subsurface Soil Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			SAMPLE ID	DOW-SB-301		DOW-SB-302		DOW-SB-303		DOW-SB-304		DOW-SB-305		DOW-SB-306		DOW-DUP10	
			SAMPLE DATE	9/13/2023		9/11/2023		9/19/2023		9/14/2023		9/12/2023		9/14/2023		9/14/2023	
			SAMPLE DEPTH	33-35 FEET		22-24 FEET		11-13 FEET		28-30 FEET		30-32 FEET		20-21.5 FEET		20-21.5 FEET	
			QC IDENTIFIER											DUPLICATE		DUPLICATE	
ANALYTE	units	SL		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
VOCs																	
1,1,1,2-Tetrachloroethane	µg/kg	NA		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
1,1,1-Trichloroethane	µg/kg	8100000		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
1,1,2,2-Tetrachloroethane	µg/kg	600		3.8	U	3.4	U	4.3	U	3.6	U	3.9	U	4.2	U	4.7	U
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	6700000		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
1,1,2-Trichloroethane	µg/kg	1100		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
1,1-Dichloroethane	µg/kg	3600		3.1	U	2.7	U	3.4	U	2.9	U	3.1	U	3.4	U	3.8	U
1,1-Dichloroethene	µg/kg	230000		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
1,1-Dichloropropene	µg/kg	NA		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
1,2,3-Trichlorobenzene	µg/kg	NA		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
1,2,3-Trichloropropane	µg/kg	5		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
1,2,4-Trichlorobenzene	µg/kg	24000		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
1,2,4-Trimethylbenzene	µg/kg	NA		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
1,2-Dibromo-3-chloropropane	µg/kg	5		3.1	U	2.7	U	3.4	U	2.9	U	3.1	U	3.4	U	3.8	U
1,2-Dibromoethane (EDB)	µg/kg	36		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
1,2-Dichlorobenzene	µg/kg	1800000		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
1,2-Dichloroethane	µg/kg	460		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
1,2-Dichloroethene	µg/kg	NA		3.8	U	3.4	U	4.3	U	3.6	U	3.9	U	4.2	U	4.7	U
1,2-Dichloropropane	µg/kg	2500		3.1	U	2.7	U	3.4	U	2.9	U	3.1	U	3.4	U	3.8	U
1,3,5-Trichlorobenzene	µg/kg	NA		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
1,3,5-Trimethylbenzene	µg/kg	NA		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
1,3-Dichlorobenzene	µg/kg	NA		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
1,3-Dichloropropane	µg/kg	1600000		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
1,4-Dichlorobenzene	µg/kg	2600		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
2,2-Dichloropropane	µg/kg	NA		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
2-Butanone (MEK)	µg/kg	27000000		9.6	U	8.4	U	11	U	9.0	U	9.7	U	10	U	12	U
2-Chloroethyl vinyl ether	µg/kg	NA		9.6	U	8.4	U	11	U	9.0	U	9.7	U	10	U	12	U
2-Chlorotoluene	µg/kg	1600000		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
2-Hexanone	µg/kg	200000		9.6	U	8.4	U	11	U	9.0	U	9.7	U	10	U	12	U
4-Chlorotoluene	µg/kg	1600000		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
4-Methyl-2-pentanone (MIBK)	µg/kg	33000000		9.6	U	8.4	U	11	U	9.0	U	9.7	U	10	U	12	U
Acetone	µg/kg	70000000		9.6	U	8.4	U	**43**		9.0	U	9.7	U	**13**	J	12	U
Benzene	µg/kg	1200		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Bromobenzene	µg/kg	290000		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Bromochloromethane	µg/kg	150000		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Bromodichloromethane	µg/kg	290		1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U

Table 6-1
Comparison of Sonic Drilling Subsurface Soil Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

		SAMPLE ID	DOW-SB-301		DOW-SB-302		DOW-SB-303		DOW-SB-304		DOW-SB-305		DOW-SB-306		DOW-DUP10	
		SAMPLE DATE	9/13/2023		9/11/2023		9/19/2023		9/14/2023		9/12/2023		9/14/2023		9/14/2023	
		SAMPLE DEPTH	33-35 FEET		22-24 FEET		11-13 FEET		28-30 FEET		30-32 FEET		20-21.5 FEET		20-21.5 FEET	
		QC IDENTIFIER											DUPLICATE		DUPLICATE	
ANALYTE	units	SL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
VOCs																
Bromoform	µg/kg	19000	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Bromomethane	µg/kg	6800	3.8	U	3.4	U	4.3	U	3.6	U	3.9	U	**5.1**	J	4.7	U
Carbon disulfide	µg/kg	770000	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Carbon Tetrachloride	µg/kg	650	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Chlorobenzene	µg/kg	280000	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Chloroethane	µg/kg	5400000	3.8	U	3.4	U	4.3	U	3.6	U	3.9	U	4.2	U	4.7	U
Chloroform	µg/kg	320	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Chloromethane	µg/kg	110000	3.8	U	3.4	U	4.3	U	3.6	U	3.9	U	4.2	U	4.7	U
cis-1,2-Dichloroethene	µg/kg	63000	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
cis-1,3-Dichloropropene	µg/kg	NA	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Cumene	µg/kg	NA	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Cyclohexane	µg/kg	6500000	2.3	U	2.0	U	2.6	U	2.2	U	2.3	U	2.5	U	2.8	U
Dibromochloromethane	µg/kg	8300	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Dibromomethane	µg/kg	24000	3.8	U	3.4	U	4.3	U	3.6	U	3.9	U	4.2	U	4.7	U
Dichlorodifluoromethane	µg/kg	87000	3.8	U	3.4	U	4.3	U	3.6	U	3.9	U	4.2	U	4.7	U
Diethyl ether (Ethyl ether)	µg/kg	16000000	3.8	U	3.4	U	4.3	U	3.6	U	3.9	U	4.2	U	4.7	U
Ethyl methacrylate	µg/kg	1800000	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Ethylbenzene	µg/kg	5800	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Hexachlorobutadiene	µg/kg	NA	3.8	U	3.4	U	4.3	U	3.6	U	3.9	U	4.2	U	4.7	U
m,p-Xylene	µg/kg	NA	3.8	U	3.4	U	4.3	U	3.6	U	3.9	U	4.2	U	4.7	U
Methyl acetate	µg/kg	78000000	3.8	U	3.4	U	4.3	U	3.6	U	3.9	U	4.2	U	4.7	U
Methyl tert-butyl ether (MTBE)	µg/kg	47000	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Methylcyclohexane	µg/kg	NA	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Methylene chloride	µg/kg	57000	15	U	14	U	17	U	14	U	15	U	17	U	19	U
Naphthalene	µg/kg	NA	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
n-Butylbenzene	µg/kg	3900000	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
n-Propylbenzene	µg/kg	3800000	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
o-Xylene	µg/kg	640000	2.3	U	2.0	U	2.6	U	2.2	U	2.3	U	2.5	U	2.8	U
p-Cymene (p-Isopropyltoluene)	µg/kg	1900000	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
sec-Butylbenzene	µg/kg	7800000	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Styrene	µg/kg	6000000	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
tert-Butyl alcohol	µg/kg	1400000	19	U	17	U	21	U	18	U	19	U	21	U	24	U
tert-Butylbenzene	µg/kg	7800000	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Tetrachloroethene (PCE)	µg/kg	24000	3.8	U	3.4	U	4.3	U	3.6	U	3.9	U	4.2	U	4.7	U
Tetrahydrofuran	µg/kg	18000000	19	U	17	U	21	U	18	U	19	U	21	U	24	U

Table 6-1
Comparison of Sonic Drilling Subsurface Soil Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

		SAMPLE ID	DOW-SB-301		DOW-SB-302		DOW-SB-303		DOW-SB-304		DOW-SB-305		DOW-SB-306		DOW-DUP10	
		SAMPLE DATE	9/13/2023		9/11/2023		9/19/2023		9/14/2023		9/12/2023		9/14/2023		9/14/2023	
		SAMPLE DEPTH	33-35 FEET		22-24 FEET		11-13 FEET		28-30 FEET		30-32 FEET		20-21.5 FEET		20-21.5 FEET	
		QC IDENTIFIER											DUPLICATE		DUPLICATE	
ANALYTE	units	SL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
VOCs																
Toluene	µg/kg	4900000	2.3	U	2.0	U	2.6	U	2.2	U	2.3	U	**2.2**	J	**2.1**	J
trans-1,2-Dichloroethene	µg/kg	70000	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
trans-1,3-Dichloropropene	µg/kg	NA	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Trichloroethene (TCE)	µg/kg	940	1.9	U	1.7	U	2.1	U	1.8	U	1.9	U	2.1	U	2.4	U
Trichlorofluoromethane	µg/kg	23000000	3.8	U	3.4	U	4.3	U	3.6	U	3.9	U	4.2	U	4.7	U
Vinyl acetate	µg/kg	910000	3.8	U	3.4	U	4.3	U	3.6	U	3.9	U	4.2	U	4.7	U
Vinyl chloride	µg/kg	59	3.8	U	3.4	U	4.3	U	3.6	U	3.9	U	4.2	U	4.7	U
Xylenes, Total	µg/kg	580000	5.8	U	5.1	U	6.4	U	5.4	U	5.8	U	6.3	U	7.1	U
PAHs																
2-Methylnaphthalene	µg/kg	240000	11	U	11	U	11	U	10	U	11	U	11	U	11	U
Acenaphthene	µg/kg	3600000	11	U	11	U	11	U	10	U	11	U	11	U	11	U
Acenaphthylene	µg/kg	NA	11	U	11	U	11	U	10	U	11	U	11	U	11	U
Anthracene	µg/kg	18000000	11	U	11	U	11	U	10	U	11	U	11	U	**6.5**	J
Benzo(a)anthracene	µg/kg	1100	11	U	11	U	**6.4**	J	10	U	11	U	**22**		**45**	
Benzo(a)pyrene	µg/kg	110	11	U	11	U	**6.3**	J	10	U	11	U	**19**	J	**39**	
Benzo(b)fluoranthene	µg/kg	1100	11	U	11	U	**11**	J	10	U	11	U	**39**		**70**	
Benzo(g,h,i)perylene	µg/kg	NA	11	U	11	U	11	U	10	U	11	U	**17**	J	**29**	
Benzo(k)fluoranthene	µg/kg	11000	11	U	11	U	11	U	10	U	11	U	**14**	J	**23**	
Chrysene	µg/kg	110000	11	U	11	U	**5.8**	J	10	U	11	U	**27**		**46**	
Dibenz(a,h)anthracene	µg/kg	110	11	U	11	U	11	U	10	U	11	U	11	U	**7.2**	J
Fluoranthene	µg/kg	2400000	11	U	11	U	**11**	J	10	U	11	U	**67**		**120**	
Fluorene	µg/kg	2400000	11	U	11	U	11	U	10	U	11	U	11	U	11	U
Indeno(1,2,3-c,d)pyrene	µg/kg	1100	11	U	11	U	**5.9**	J	10	U	11	U	**20**	J	**36**	
Naphthalene	µg/kg	2000	11	U	11	U	11	U	10	U	11	U	11	U	11	U
Phenanthrene	µg/kg	NA	11	U	11	U	11	U	10	U	11	U	**35**		**62**	
Pyrene	µg/kg	1800000	11	U	11	U	**9.7**	J	10	U	11	U	**54**		**92**	
TAL Metals																
Aluminum	mg/kg	NA	**15300**		**11400**		**16200**		**13300**		**13600**		**11700**		**15200**	
Antimony	mg/kg	NA	**0.12**		**0.13**		**0.17**	J	**0.13**		**0.16**		**0.229**		**0.297**	
Arsenic	mg/kg	0.68	**3.21**		**7.09**		**5.68**		**8.68**		**6.28**		**10.5**		**11.2**	
Barium	mg/kg	15000	**69.2**		**24.2**		**37.3**		**36.3**		**32.0**		**31.4**		**33.0**	
Beryllium	mg/kg	NA	**0.503**		**0.269**		**0.441**		**0.352**		**0.404**		**0.391**		**0.442**	
Cadmium	mg/kg	7.1	**0.181**		**0.022**	J	**0.034**	J	**0.064**	J	**0.029**	J	**0.0713**		**0.068**	J
Calcium	mg/kg	NA	**2520**		**7670**		**3910**		**2150**		**5270**		**3040**		**3100**	
Chromium	mg/kg	NA	**51.8**		**22.5**		**37.0**		**32.3**		**31.3**		**31.9**		**34.7**	

Table 6-1
Comparison of Sonic Drilling Subsurface Soil Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

		SAMPLE ID	DOW-SB-301		DOW-SB-302		DOW-SB-303		DOW-SB-304		DOW-SB-305		DOW-SB-306		DOW-DUP10	
		SAMPLE DATE	9/13/2023		9/11/2023		9/19/2023		9/14/2023		9/12/2023		9/14/2023		9/14/2023	
		SAMPLE DEPTH	33-35 FEET		22-24 FEET		11-13 FEET		28-30 FEET		30-32 FEET		20-21.5 FEET		20-21.5 FEET	
		QC IDENTIFIER											DUPLICATE		DUPLICATE	
ANALYTE	units	SL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
TAL Metals																
Cobalt	mg/kg	NA	**18.1**		**9.1**		**14.8**		**13.8**		**12.9**		**13.6**		**15.7**	
Copper	mg/kg	NA	**24.5**		**15.0**		**19.8**		**20.2**		**24.5**		**21.0**		**23.0**	
Iron	mg/kg	55000	**25400**		**22100**		**34000**		**27100**		**29000**		**26800**		**33200**	
Lead	mg/kg	100	**20.3**		**7.42**		**11.3**		**10.9**		**9.92**		**14.5**		**11.5**	
Magnesium	mg/kg	NA	**8080**		**6510**		**9760**		**7430**		**7820**		**5550**		**7660**	
Manganese	mg/kg	NA	**1860**		**405**		**343**		**841**		**775**		**775**		**693**	
Mercury	mg/kg	11	0.016	U	0.016	U	0.019	U	0.015	U	0.015	U	0.017	U	0.017	U
Nickel	mg/kg	NA	**47.8**		**30.7**		**35.6**		**43.9**		**42.7**		**39.2**		**39.8**	
Potassium	mg/kg	NA	**2410**		**1130**		**1700**	J	**1140**		**1360**		**1310**		**1490**	
Selenium	mg/kg	390	0.26	U	0.23	U	0.23	U	0.21	U	0.23	U	0.21	U	0.24	U
Silver	mg/kg	NA	**0.031**	J	**0.021**	J	**0.023**	J	**0.065**	J	**0.023**	J	**0.034**	J	**0.031**	J
Sodium	mg/kg	NA	**140**		**182**		**120**		**98**		**88**		**83**		**96**	
Thallium	mg/kg	NA	**0.084**	J	**0.053**	J	**0.076**		**0.048**	J	**0.050**	J	**0.051**	J	**0.052**	J
Vanadium	mg/kg	NA	**18.7**		**14.9**		**33.9**		**17.6**		**17.2**		**17.5**		**24.8**	
Zinc	mg/kg	NA	**56.3**		**34.6**		**56.2**		**47.7**		**42.9**		**51.6**		**57.8**	

Notes:
Bold = Detected above laboratory reporting limits
Shaded = Detected above the Human Health Screening Level
SLs are the May 2022 EPA RSLs for Resident Soil (THQ 1.0)
J = Estimated Value
U = Undetected: The analyte was analyzed for, but not detected.
UJ = The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.
µg/kg = Micrograms per Kilogram
mg/kg = Milligrams per Kilogram

Table 6-1
Comparison of Sonic Drilling Subsurface Soil Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

		SAMPLE ID	DOW-SB-307		DOW-SB-308R		DOW-SB-309		DOW-SB-310		DOW-SB-311		DOW-SB-312R	
		SAMPLE DATE	9/18/2023		2/13/2024		2/15/2024		2/14/2023		9/20/2024		2/20/2024	
		SAMPLE DEPTH	25-27 FEET		27.5-28.5 FEET		48-49.5 FEET		35-37 FEET		12-14 FEET		31-32 FEET	
		QC IDENTIFIER												
ANALYTE	units	SL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
VOCs														
1,1,1,2-Tetrachloroethane	µg/kg	NA	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
1,1,1-Trichloroethane	µg/kg	8100000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
1,1,2,2-Tetrachloroethane	µg/kg	600	4.0	U	4.3	U	5.1	U	9.2	UJ	4.6	U	3.4	U
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	6700000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
1,1,2-Trichloroethane	µg/kg	1100	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
1,1-Dichloroethane	µg/kg	3600	3.2	U	3.5	U	5.1	U	7.4	UJ	3.7	U	2.8	U
1,1-Dichloroethene	µg/kg	230000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
1,1-Dichloropropene	µg/kg	NA	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
1,2,3-Trichlorobenzene	µg/kg	NA	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
1,2,3-Trichloropropane	µg/kg	5	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
1,2,4-Trichlorobenzene	µg/kg	24000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
1,2,4-Trimethylbenzene	µg/kg	NA	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
1,2-Dibromo-3-chloropropane	µg/kg	5	3.2	U	3.5	U	5.1	U	7.4	UJ	3.7	U	2.8	U
1,2-Dibromoethane (EDB)	µg/kg	36	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
1,2-Dichlorobenzene	µg/kg	1800000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
1,2-Dichloroethane	µg/kg	460	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
1,2-Dichloroethene	µg/kg	NA	4.0	U	4.3	U	5.1	U	9.2	UJ	4.6	U	3.4	U
1,2-Dichloropropane	µg/kg	2500	3.2	U	3.5	U	5.1	U	7.4	UJ	3.7	U	2.8	U
1,3,5-Trichlorobenzene	µg/kg	NA	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
1,3,5-Trimethylbenzene	µg/kg	NA	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
1,3-Dichlorobenzene	µg/kg	NA	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
1,3-Dichloropropane	µg/kg	1600000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
1,4-Dichlorobenzene	µg/kg	2600	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
2,2-Dichloropropane	µg/kg	NA	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
2-Butanone (MEK)	µg/kg	27000000	10	U	11	U	5.1	U	23	UJ	12	U	8.6	U
2-Chloroethyl vinyl ether	µg/kg	NA	10	U	11	U	5.1	U	23	UJ	12	U	8.6	U
2-Chlorotoluene	µg/kg	1600000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
2-Hexanone	µg/kg	200000	10	U	**19**	J	5.1	U	23	UJ	12	U	8.6	U
4-Chlorotoluene	µg/kg	1600000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
4-Methyl-2-pentanone (MIBK)	µg/kg	33000000	10	U	11	U	5.1	U	23	UJ	12	U	8.6	U
Acetone	µg/kg	70000000	10	U	**32**		5.1	J	**32**	J	**41**		8.6	U
Benzene	µg/kg	1200	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Bromobenzene	µg/kg	290000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Bromochloromethane	µg/kg	150000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Bromodichloromethane	µg/kg	290	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U

Table 6-1
Comparison of Sonic Drilling Subsurface Soil Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

		SAMPLE ID	DOW-SB-307		DOW-SB-308R		DOW-SB-309		DOW-SB-310		DOW-SB-311		DOW-SB-312R	
		SAMPLE DATE	9/18/2023		2/13/2024		2/15/2024		2/14/2023		9/20/2024		2/20/2024	
		SAMPLE DEPTH	25-27 FEET		27.5-28.5 FEET		48-49.5 FEET		35-37 FEET		12-14 FEET		31-32 FEET	
		QC IDENTIFIER												
ANALYTE	units	SL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
VOCs														
Bromoform	µg/kg	19000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Bromomethane	µg/kg	6800	4.0	U	4.3	U	5.1	U	9.2	UJ	4.6	U	3.4	U
Carbon disulfide	µg/kg	770000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Carbon Tetrachloride	µg/kg	650	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Chlorobenzene	µg/kg	280000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Chloroethane	µg/kg	5400000	4.0	U	4.3	U	5.1	U	9.2	UJ	4.6	U	3.4	U
Chloroform	µg/kg	320	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Chloromethane	µg/kg	110000	4.0	U	4.3	U	5.1	U	9.2	UJ	4.6	U	3.4	U
cis-1,2-Dichloroethene	µg/kg	63000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
cis-1,3-Dichloropropene	µg/kg	NA	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Cumene	µg/kg	NA	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Cyclohexane	µg/kg	6500000	2.4	U	2.6	U	5.1	U	5.6	UJ	2.8	U	2.1	U
Dibromochloromethane	µg/kg	8300	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Dibromomethane	µg/kg	24000	4.0	U	4.3	U	5.1	U	9.2	UJ	4.6	U	3.4	U
Dichlorodifluoromethane	µg/kg	87000	4.0	U	4.3	U	5.1	U	9.2	UJ	4.6	U	3.4	U
Diethyl ether (Ethyl ether)	µg/kg	16000000	4.0	U	4.3	U	5.1	U	9.2	UJ	4.6	U	3.4	U
Ethyl methacrylate	µg/kg	1800000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Ethylbenzene	µg/kg	5800	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Hexachlorobutadiene	µg/kg	NA	4.0	U	4.3	U	5.1	U	9.2	UJ	4.6	U	3.4	U
m,p-Xylene	µg/kg	NA	4.0	U	4.3	U	5.1	U	9.2	UJ	4.6	U	3.4	U
Methyl acetate	µg/kg	78000000	4.0	U	4.3	U	5.1	U	9.2	UJ	4.6	U	3.4	U
Methyl tert-butyl ether (MTBE)	µg/kg	47000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Methylcyclohexane	µg/kg	NA	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Methylene chloride	µg/kg	57000	16	U	17	U	5.1	U	37	UJ	18	U	14	U
Naphthalene	µg/kg	NA	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
n-Butylbenzene	µg/kg	3900000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
n-Propylbenzene	µg/kg	3800000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
o-Xylene	µg/kg	640000	2.4	U	2.6	U	5.1	U	5.6	UJ	2.8	U	2.1	U
p-Cymene (p-Isopropyltoluene)	µg/kg	1900000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
sec-Butylbenzene	µg/kg	7800000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Styrene	µg/kg	6000000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
tert-Butyl alcohol	µg/kg	1400000	20	U	22	U	5.1	U	46	UJ	23	U	17	U
tert-Butylbenzene	µg/kg	7800000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Tetrachloroethene (PCE)	µg/kg	24000	4.0	U	4.3	U	5.1	U	9.2	UJ	4.6	U	3.4	U
Tetrahydrofuran	µg/kg	18000000	20	U	22	U	5.1	U	46	UJ	23	U	17	U

Table 6-1
Comparison of Sonic Drilling Subsurface Soil Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

		SAMPLE ID	DOW-SB-307		DOW-SB-308R		DOW-SB-309		DOW-SB-310		DOW-SB-311		DOW-SB-312R	
		SAMPLE DATE	9/18/2023		2/13/2024		2/15/2024		2/14/2023		9/20/2024		2/20/2024	
		SAMPLE DEPTH	25-27 FEET		27.5-28.5 FEET		48-49.5 FEET		35-37 FEET		12-14 FEET		31-32 FEET	
		QC IDENTIFIER												
ANALYTE	**units**	**SL**	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
VOCs														
Toluene	µg/kg	4900000	2.4	U	2.6	U	**5.1**	J	5.6	UJ	2.8	U	2.1	U
trans-1,2-Dichloroethene	µg/kg	70000	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
trans-1,3-Dichloropropene	µg/kg	NA	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Trichloroethene (TCE)	µg/kg	940	2.0	U	2.2	U	5.1	U	4.6	UJ	2.3	U	1.7	U
Trichlorofluoromethane	µg/kg	23000000	4.0	U	4.3	U	5.1	U	9.2	UJ	4.6	U	3.4	U
Vinyl acetate	µg/kg	910000	4.0	U	4.3	U	5.1	U	9.2	UJ	4.6	U	3.4	U
Vinyl chloride	µg/kg	59	4.0	U	4.3	U	5.1	U	9.2	UJ	4.6	U	3.4	U
Xylenes, Total	µg/kg	580000	6.0	U	6.5	U	5.1	U	14	UJ	6.9	U	5.2	U
PAHs														
2-Methylnaphthalene	µg/kg	240000	10	U	11	U	10	U	10	U	11	U	10	U
Acenaphthene	µg/kg	3600000	10	U	11	U	10	U	10	U	11	U	10	U
Acenaphthylene	µg/kg	NA	10	U	11	U	10	U	10	U	11	U	10	U
Anthracene	µg/kg	18000000	10	U	11	U	10	U	10	U	**7.4**	J	10	U
Benzo(a)anthracene	µg/kg	1100	10	U	11	U	10	U	10	U	**72**		10	U
Benzo(a)pyrene	µg/kg	110	10	U	11	U	10	U	10	U	**93**		10	U
Benzo(b)fluoranthene	µg/kg	1100	10	U	11	U	10	U	10	U	**160**		10	U
Benzo(g,h,i)perylene	µg/kg	NA	10	U	11	U	10	UJ	10	U	**73**		10	U
Benzo(k)fluoranthene	µg/kg	11000	10	U	11	U	10	U	10	U	**48**		10	U
Chrysene	µg/kg	110000	10	U	11	U	10	U	10	U	**69**		10	U
Dibenz(a,h)anthracene	µg/kg	110	10	U	11	U	10	U	10	U	**20**	J	10	U
Fluoranthene	µg/kg	2400000	10	U	11	U	10	U	10	U	**110**		10	U
Fluorene	µg/kg	2400000	10	U	11	U	10	U	10	U	11	U	10	U
Indeno(1,2,3-c,d)pyrene	µg/kg	1100	10	U	11	U	10	U	10	U	**88**		10	U
Naphthalene	µg/kg	2000	10	U	11	U	10	U	10	U	11	U	10	U
Phenanthrene	µg/kg	NA	10	U	11	U	10	U	10	U	**16**	J	10	U
Pyrene	µg/kg	1800000	10	U	11	U	10	U	10	U	**96**		10	U
TAL Metals														
Aluminum	mg/kg	NA	**18500**		**16200**		**23900**		**17900**		**17400**		**16400**	
Antimony	mg/kg	NA	**0.303**		**0.17**		**0.25**	J	**0.17**		**0.17**		**0.072**	J
Arsenic	mg/kg	0.68	**9.73**		**10.0**		**1.50**		**8.89**		**18.3**		**5.80**	
Barium	mg/kg	15000	**42.4**		**54.5**		**61.2**		**27.4**		**57.8**		**18.8**	
Beryllium	mg/kg	NA	**0.594**		**0.463**		**0.628**		**0.536**		**0.572**		**0.434**	
Cadmium	mg/kg	7.1	**0.115**		**0.042**	J	**0.061**	J	**0.016**	J	**0.037**	J	**0.050**	J
Calcium	mg/kg	NA	**4390**		**7480**		**23200**		**13100**		**8380**		**22200**	
Chromium	mg/kg	NA	**18.2**		**32.4**		**33.5**		**34.8**		**40.2**		**28.2**	

Table 6-1
Comparison of Sonic Drilling Subsurface Soil Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

		SAMPLE ID	DOW-SB-307		DOW-SB-308R		DOW-SB-309		DOW-SB-310		DOW-SB-311		DOW-SB-312R	
		SAMPLE DATE	9/18/2023		2/13/2024		2/15/2024		2/14/2023		9/20/2024		2/20/2024	
		SAMPLE DEPTH	25-27 FEET		27.5-28.5 FEET		48-49.5 FEET		35-37 FEET		12-14 FEET		31-32 FEET	
		QC IDENTIFIER												
ANALYTE	**units**	**SL**	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
TAL Metals														
Cobalt	mg/kg	NA	**19.3**		**12.0**		**18.3**		**18.0**		**15.6**		**16.8**	
Copper	mg/kg	NA	**22.0**		**17.8**		**48.0**	J	**25.8**		**24.5**		**26.4**	J
Iron	mg/kg	55000	**45000**		**26700**		**42900**		**37100**		**30800**		**35400**	
Lead	mg/kg	100	**14.8**		**9.98**		**20.9**	J	**23.7**		**14.0**		**16.6**	J
Magnesium	mg/kg	NA	**9020**		**7100**		**12000**		**10400**		**7960**		**12500**	
Manganese	mg/kg	NA	**1270**		**528**		**1410**		**653**		**685**		**2550**	
Mercury	mg/kg	11	0.018	U	0.018	U	0.018	U	0.015	U	0.020	U	0.015	U
Nickel	mg/kg	NA	**22.6**		**38.5**		**57.1**		**52.9**		**44.3**		**53.5**	
Potassium	mg/kg	NA	**1580**		**2420**		**3150**		**1370**		**2700**		**975**	
Selenium	mg/kg	390	0.26	U	0.21	U	0.28	U	0.23	U	0.29	U	0.23	U
Silver	mg/kg	NA	**0.055**	J	**0.022**	J	**0.026**	J	**0.035**	J	**0.036**	J	**0.029**	J
Sodium	mg/kg	NA	**150**		**264**		**110**		**74**	J	**206**		**38**	J
Thallium	mg/kg	NA	**0.064**	J	**0.11**		**0.092**	J	**0.065**	J	**0.12**		**0.037**	J
Vanadium	mg/kg	NA	**46.5**		**22.8**		**26.7**		**20.4**		**28.4**		**16.0**	
Zinc	mg/kg	NA	**70.3**		**46.5**		**74.4**		**54.6**		**60.5**		**61.8**	

Notes:
Bold = Detected above laboratory reporting limits
Shaded = Detected above the Human Health Screening Level
SLs are the May 2022 EPA RSLs for Resident Soil (THQ 1.0)
J = Estimated Value
U = Undetected: The analyte was analyzed for, but not detected.
UJ = The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.
µg/kg = Micrograms per Kilogram
mg/kg = Milligrams per Kilogram

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-3			MW-5		
			Sample ID	DOW-MW03-042224	DOW-MW03-062624	DOW-MW03-0924	DOW-MW05-042524	DOW-MW05-062524	DOW-MW05-0924
			Sampling Date	22-Apr-24	26-Jun-24	16-Sep-24	25-Apr-24	25-Jun-24	16-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
VOC (UG/L)									
1,1,1,2-Tetrachloroethane	0.57	--	0.57	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,1-Trichloroethane	8000	200	200	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,2,2-Tetrachloroethane	0.076	--	0.076	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,2-Trichloro-1,2,2-trifluoroethane	10000	--	10000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1,2-Trichloroethane*	0.28	5	0.28	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1-Dichloroethane	2.8	--	2.8	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1-Dichloroethene	280	7	7	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2,3-Trichlorobenzene	7	--	7	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,2,3-Trichloropropane*	0.00075	--	0.00075	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2,4-Trichlorobenzene	1.2	70	1.2	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,2,4-Trimethylbenzene	56	--	56	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dibromo-3-chloropropane*	0.00033	0.2	0.00033	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dibromoethane (EDB)*	0.0075	0.05	0.0075	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichlorobenzene	300	600	300	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethane	0.17	5	0.17	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethene	--	--	--	1.00 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U
1,2-Dichloropropane	0.85	5	0.85	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trichlorobenzene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trimethylbenzene	60	--	60	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3-Dichlorobenzene	--	--	--	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,3-Dichloropropane	370	--	370	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,4-Dichlorobenzene	0.48	75	0.48	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2,2-Dichloropropane	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Butanone (MEK)	5600	--	5600	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
2-Chloroethyl vinyl ether	--	--	--	NA	2.50 U	NA	NA	2.50 U	NA
2-Chlorotoluene	240	--	240	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Hexanone	38	--	38	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
4-Chlorotoluene	250	--	250	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
4-Methyl-2-pentanone (MIBK)	6300	--	6300	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Acetone	18000	--	18000	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzene*	0.46	5	0.46	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Bromobenzene	62	--	62	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromochloromethane	83	--	83	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromodichloromethane*	0.13	80	0.13	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-3			MW-5		
			Sample ID	DOW-MW03-042224	DOW-MW03-062624	DOW-MW03-0924	DOW-MW05-042524	DOW-MW05-062524	DOW-MW05-0924
			Sampling Date	22-Apr-24	26-Jun-24	16-Sep-24	25-Apr-24	25-Jun-24	16-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Bromoform	3.3	80	3.3	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
VOC (UG/L)									
Bromomethane	7.5	--	7.5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Carbon disulfide	810	--	810	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Carbon Tetrachloride*	0.46	5	0.46	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chlorobenzene	78	100	78	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chloroethane	8300	--	8300	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Chloroform*	0.22	80	0.22	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Chloromethane	190	--	190	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
cis-1,2-Dichloroethene	36	70	36	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
cis-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Cumene	450	--	450	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Cyclohexane	13000	--	13000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Dibromochloromethane	0.87	80	0.87	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Dibromomethane	8.3	--	8.3	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dichlorodifluoromethane	200	--	200	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Diethyl ether (Ethyl ether)	3900	--	3900	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethyl methacrylate	630	--	630	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Ethylbenzene	1.5	700	1.5	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Hexachlorobutadiene*	0.14	--	0.14	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
m,p-Xylene	--	--	--	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Methyl acetate	20000	--	20000	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Methyl tert-butyl ether (MTBE)	14	--	14	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Methylcyclohexane	--	--	--	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Methylene chloride	11	5	5	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Naphthalene*	0.12	--	0.12	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
n-Butylbenzene	1000	--	1000	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
n-Propylbenzene	660	--	660	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
o-Xylene	190	--	190	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
p-Cymene (p-Isopropyltoluene)	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
sec-Butylbenzene	2000	--	2000	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Styrene	1200	100	100	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
tert-Butyl alcohol	150	--	150	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
tert-Butylbenzene	690	--	690	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Tetrachloroethene (PCE)	11	5	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrahydrofuran	3400	--	3400	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-3			MW-5		
			Sample ID	DOW-MW03-042224	DOW-MW03-062624	DOW-MW03-0924	DOW-MW05-042524	DOW-MW05-062524	DOW-MW05-0924
			Sampling Date	22-Apr-24	26-Jun-24	16-Sep-24	25-Apr-24	25-Jun-24	16-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Toluene	1100	1000	1000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Total, 1,3-Dichloropropene	0.47	--	0.47	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
VOC (UG/L)									
trans-1,2-Dichloroethene	68	100	68	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
trans-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Trichloroethene (TCE)*	0.49	5	0.49	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Trichlorofluoromethane	5200	--	5200	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Vinyl acetate	410	--	410	1.00 UJ	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U
Vinyl chloride*	0.019	2	0.019	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Xylenes, Total	190	10000	190	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
SVOC (UG/L)									
2-Methylnaphthalene	36	--	36	0.190 U	0.200 U	0.210 U	0.200 U	0.220 U	0.200 U
Acenaphthene	530	--	530	0.140 U	0.150 U	0.150 U	0.150 U	0.160 U	0.150 U
Acenaphthylene	--	--	--	0.140 U	0.150 U	0.150 U	0.150 U	0.160 U	0.150 U
Anthracene	1800	--	1800	0.0930 U	0.100 U	0.100 U	0.100 U	0.110 U	0.0980 U
Benzo(a)anthracene*	0.03	--	0.03	0.0930 U	0.100 U	0.100 U	0.100 U	0.110 U	0.0980 U
Benzo(a)pyrene*	0.025	0.2	0.025	0.140 U	0.150 UJ	0.150 U	0.150 U	0.160 UJ	0.150 U
Benzo(b)fluoranthene	0.25	--	0.25	0.190 U	0.200 UJ	0.210 U	0.200 U	0.220 UJ	0.200 U
Benzo(g,h,i)perylene	--	--	--	0.140 U	0.150 UJ	0.150 U	0.150 U	0.160 UJ	0.150 U
Benzo(k)fluoranthene	2.5	--	2.5	0.0930 U	0.100 UJ	0.100 U	0.100 U	0.110 UJ	0.0980 U
Chrysene	25	--	25	0.0930 U	0.100 UJ	0.100 U	0.100 U	0.110 UJ	0.0980 U
Dibenz(a,h)anthracene*	0.025	--	0.025	0.140 U	0.150 UJ	0.150 U	0.150 U	0.160 UJ	0.150 U
Fluoranthene	800	--	800	0.140 U	0.150 U	0.150 U	0.150 U	0.160 U	0.150 U
Fluorene	290	--	290	0.140 U	0.150 U	0.150 U	0.150 U	0.160 U	0.150 U
Indeno(1,2,3-c,d)pyrene	0.25	--	0.25	0.140 U	0.150 UJ	0.150 U	0.150 U	0.160 UJ	0.150 U
Naphthalene*	0.12	--	0.12	0.140 U	0.150 U	0.150 U	0.150 U	0.160 U	0.150 U
Phenanthrene	--	--	--	0.140 U	0.150 U	0.150 U	0.150 U	0.160 U	0.150 U
Pyrene	120	--	120	0.190 U	0.200 U	0.210 U	0.200 U	0.220 U	0.200 U
METALS (UG/L)									
Aluminum	20000	--	20000	**31.0 J**	**29.0 J**	40.0 U	**38.0 J**	**26.0 J**	40.0 U
Antimony	7.8	6	6	0.500 U	0.500 U	**0.0700 J**	0.500 U	0.500 U	**0.0650 J**
Arsenic*	0.052	10	0.052	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Barium	3800	2000	2000	**1.40 J**	**1.80 J**	**1.50 J**	**1.90 J**	**0.860 J**	**0.640 J**
Beryllium	25	4	4	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Cadmium	1.8	5	1.8	**0.190 J**	**0.140 J**	**0.0880 J**	**0.160 J**	0.200 U	0.200 U
Calcium	--	--	--	**39000**	**54900**	**41800**	**27500**	**26500**	**25700**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-3			MW-5		
			Sample ID	DOW-MW03-042224	DOW-MW03-062624	DOW-MW03-0924	DOW-MW05-042524	DOW-MW05-062524	DOW-MW05-0924
			Sampling Date	22-Apr-24	26-Jun-24	16-Sep-24	25-Apr-24	25-Jun-24	16-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Chromium	--	100	100	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Cobalt	6	--	6	**0.320 J**	**0.540 J**	**0.981 J**	**0.310 J**	0.300 U	**0.0720 J**
Copper	800	1300	800	**1.90 J**	**1.50 J**	2.00 U	**2.00 J**	2.00 U	2.00 U
METALS (UG/L)									
Iron	14000	--	14000	**54.0 J**	**38.0 J**	**110**	**53.0 J**	**59.0 J**	**99.0 J**
Lead	15	15	15	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Magnesium	--	--	--	**10200**	**14400**	**11000**	**4400**	**4300**	**4120**
Manganese	430	--	430	**392**	**610**	**844**	**6.54**	**12.0**	**12.9**
Nickel	390	--	390	**1.50 J**	**1.70 J**	**0.660 J**	1.20 U	1.20 U	1.20 U
Potassium	--	--	--	**620 J**	**1200**	**1240**	**600 J**	**560 J**	**721 J**
Selenium	100	50	50	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Silver	94	--	94	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Sodium	--	--	--	**5590**	**7950**	**5930**	**3190**	**3150**	**3220**
Thallium*	0.2	2	0.2	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Vanadium	86	--	86	4.00 U	4.00 U	**0.920 J**	4.00 U	4.00 U	**0.800 J**
Zinc	6000	--	6000	**6.60 J**	**13.0**	**4.60 J**	8.00 U	8.00 U	8.00 U
METAL (Diss) (UG/L)									
Aluminum, Dissolved	20000	--	20000	40.0 U	40.0 U	40.0 U	40.0 U	40.0 U	40.0 U
Antimony, Dissolved	7.8	6	6	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Arsenic, Dissolved*	0.052	10	0.052	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Barium, Dissolved	3800	2000	2000	**1.30 J**	**1.30 J**	**1.20 J**	**1.10 J**	**0.960 J**	**0.590 J**
Beryllium, Dissolved	25	4	4	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Cadmium, Dissolved	1.8	5	1.8	**0.200 J**	**0.150 J**	**0.0960 J**	0.200 U	0.200 U	0.200 U
Calcium, Dissolved	--	--	--	**39100**	**41100**	**39000**	**27100**	**36100**	**25400**
Chromium, Dissolved	--	100	100	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Cobalt, Dissolved	6	--	6	**0.390 J**	**0.360 J**	**0.720 J**	0.300 U	0.300 U	0.300 U
Copper, Dissolved	800	1300	800	**1.30 J**	**2.30 J**	**1.70 J**	**7.80**	2.00 U	**0.620 J**
Iron, Dissolved	14000	--	14000	60.0 U	60.0 U	**47.0 J**	60.0 U	**48.0 J**	**40.0 J**
Lead, Dissolved	15	15	15	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Magnesium, Dissolved	--	--	--	**10400**	**10700**	**10800**	**4480**	**5970**	**4220**
Manganese, Dissolved	430	--	430	**400**	**434**	**741**	**1.60 J**	**14.2**	**6.28**
Nickel, Dissolved	390	--	390	**1.50 J**	**0.830 J**	**1.92 J**	**0.930 J**	1.20 U	1.20 U
Potassium, Dissolved	--	--	--	**650 J**	**850 J**	**1170**	**630 J**	**830 J**	**737 J**
Selenium, Dissolved	100	50	50	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Silver, Dissolved	94	--	94	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Sodium, Dissolved	--	--	--	**5610**	**5920**	**6080**	**3320**	**4430**	**3380**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-3			MW-5		
			Sample ID	DOW-MW03-042224	DOW-MW03-062624	DOW-MW03-0924	DOW-MW05-042524	DOW-MW05-062524	DOW-MW05-0924
			Sampling Date	22-Apr-24	26-Jun-24	16-Sep-24	25-Apr-24	25-Jun-24	16-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Thallium, Dissolved*	0.2	2	0.2	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Vanadium, Dissolved	86	--	86	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Zinc, Dissolved	6000	--	6000	**6.50 J**	8.00 U	**5.90 J**	8.00 U	**5.20 J**	8.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-3			MW-5		
			Sample ID	DOW-MW03-042224	DOW-MW03-062624	DOW-MW03-0924	DOW-MW05-042524	DOW-MW05-062524	DOW-MW05-0924
			Sampling Date	22-Apr-24	26-Jun-24	16-Sep-24	25-Apr-24	25-Jun-24	16-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
CR (Diss) (UG/L)									
Hexavalent Chromium, Dissolved	0.035	--	0.035	NA	0.0150 UJ	0.0150 UJ	NA	**0.134 J**	**0.157 J**
HG (UG/L)									
Mercury	0.63	2	0.63	0.100 U	0.100 U	0.100 U	0.100 U	**0.0540 J**	0.100 U
HG (Diss) (UG/L)									
Mercury, Dissolved	0.63	2	0.63	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U

Notes:

Bold = detected

Shaded = detected above the screening level (SL)

SLs are the lowest of:

May 2022 EPA RSLs Tap Water

2022 EPA Maximum Contaminant Levels (MCLs)

*Screening Level is below the Laboratory Limits

-- - No SL available

J - Estimated Value

U - Undetected: The analyte was analyzed for, but not detected.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

UG/L - Micrograms per Liter

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-8			MW-20		
			Sample ID	DOW-MW08-042524	DOW-MW08-062524	DOW-MW08-0924	DOW-MW20-042424	DOW-MW20-062624	DOW-MW20-0924
			Sampling Date	25-Apr-24	25-Jun-24	16-Sep-24	24-Apr-24	26-Jun-24	17-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
VOC (UG/L)									
1,1,1,2-Tetrachloroethane	0.57	--	0.57	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,1-Trichloroethane	8000	200	200	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,2,2-Tetrachloroethane	0.076	--	0.076	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,2-Trichloro-1,2,2-trifluoroethane	10000	--	10000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1,2-Trichloroethane*	0.28	5	0.28	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1-Dichloroethane	2.8	--	2.8	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1-Dichloroethene	280	7	7	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2,3-Trichlorobenzene	7	--	7	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,2,3-Trichloropropane*	0.00075	--	0.00075	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2,4-Trichlorobenzene	1.2	70	1.2	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,2,4-Trimethylbenzene	56	--	56	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dibromo-3-chloropropane*	0.00033	0.2	0.00033	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dibromoethane (EDB)*	0.0075	0.05	0.0075	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichlorobenzene	300	600	300	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethane	0.17	5	0.17	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethene	--	--	--	1.00 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U
1,2-Dichloropropane	0.85	5	0.85	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trichlorobenzene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trimethylbenzene	60	--	60	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3-Dichlorobenzene	--	--	--	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,3-Dichloropropane	370	--	370	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,4-Dichlorobenzene	0.48	75	0.48	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2,2-Dichloropropane	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Butanone (MEK)	5600	--	5600	**1.50 J**	**5.10 J**	3.00 U	3.00 U	3.00 U	3.00 U
2-Chloroethyl vinyl ether	--	--	--	NA	2.50 U	NA	NA	2.50 U	NA
2-Chlorotoluene	240	--	240	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Hexanone	38	--	38	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
4-Chlorotoluene	250	--	250	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
4-Methyl-2-pentanone (MIBK)	6300	--	6300	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Acetone	18000	--	18000	5.00 U	5.00 U	**3.00 J**	5.00 U	5.00 U	5.00 U
Benzene*	0.46	5	0.46	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Bromobenzene	62	--	62	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromochloromethane	83	--	83	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromodichloromethane*	0.13	80	0.13	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-8			MW-20		
			Sample ID	DOW-MW08-042524	DOW-MW08-062524	DOW-MW08-0924	DOW-MW20-042424	DOW-MW20-062624	DOW-MW20-0924
			Sampling Date	25-Apr-24	25-Jun-24	16-Sep-24	24-Apr-24	26-Jun-24	17-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Bromoform	3.3	80	3.3	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
VOC (UG/L)									
Bromomethane	7.5	--	7.5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Carbon disulfide	810	--	810	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Carbon Tetrachloride*	0.46	5	0.46	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chlorobenzene	78	100	78	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chloroethane	8300	--	8300	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Chloroform*	0.22	80	0.22	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Chloromethane	190	--	190	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
cis-1,2-Dichloroethene	36	70	36	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
cis-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Cumene	450	--	450	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Cyclohexane	13000	--	13000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Dibromochloromethane	0.87	80	0.87	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Dibromomethane	8.3	--	8.3	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dichlorodifluoromethane	200	--	200	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Diethyl ether (Ethyl ether)	3900	--	3900	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethyl methacrylate	630	--	630	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Ethylbenzene	1.5	700	1.5	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Hexachlorobutadiene*	0.14	--	0.14	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
m,p-Xylene	--	--	--	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Methyl acetate	20000	--	20000	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Methyl tert-butyl ether (MTBE)	14	--	14	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Methylcyclohexane	--	--	--	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Methylene chloride	11	5	5	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Naphthalene*	0.12	--	0.12	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
n-Butylbenzene	1000	--	1000	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
n-Propylbenzene	660	--	660	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
o-Xylene	190	--	190	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
p-Cymene (p-Isopropyltoluene)	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
sec-Butylbenzene	2000	--	2000	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Styrene	1200	100	100	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
tert-Butyl alcohol	150	--	150	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
tert-Butylbenzene	690	--	690	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Tetrachloroethene (PCE)	11	5	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrahydrofuran	3400	--	3400	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-8			MW-20		
			Sample ID	DOW-MW08-042524	DOW-MW08-062524	DOW-MW08-0924	DOW-MW20-042424	DOW-MW20-062624	DOW-MW20-0924
			Sampling Date	25-Apr-24	25-Jun-24	16-Sep-24	24-Apr-24	26-Jun-24	17-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Toluene	1100	1000	1000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Total, 1,3-Dichloropropene	0.47	--	0.47	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
VOC (UG/L)									
trans-1,2-Dichloroethene	68	100	68	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
trans-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Trichloroethene (TCE)*	0.49	5	0.49	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Trichlorofluoromethane	5200	--	5200	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Vinyl acetate	410	--	410	1.00 UJ	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U
Vinyl chloride*	0.019	2	0.019	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Xylenes, Total	190	10000	190	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
SVOC (UG/L)									
2-Methylnaphthalene	36	--	36	0.190 U	0.210 U	0.200 U	0.190 U	0.200 UJ	0.200 U
Acenaphthene	530	--	530	0.140 U	0.150 U	0.150 U	0.140 U	0.150 UJ	0.150 U
Acenaphthylene	--	--	--	0.140 U	0.150 U	0.150 U	0.140 U	0.150 UJ	0.150 U
Anthracene	1800	--	1800	0.0930 U	0.100 U	0.0980 U	0.0950 U	0.100 UJ	0.100 U
Benzo(a)anthracene*	0.03	--	0.03	0.0930 U	0.100 U	0.0980 U	0.0950 U	0.100 UJ	0.100 U
Benzo(a)pyrene*	0.025	0.2	0.025	0.140 U	0.150 UJ	0.150 U	0.140 U	0.150 UJ	0.150 U
Benzo(b)fluoranthene	0.25	--	0.25	0.190 U	0.210 UJ	0.200 U	0.190 U	0.200 UJ	0.200 U
Benzo(g,h,i)perylene	--	--	--	0.140 U	0.150 UJ	0.150 U	0.140 U	0.150 UJ	0.150 U
Benzo(k)fluoranthene	2.5	--	2.5	0.0930 U	0.100 UJ	0.0980 U	0.0950 U	0.100 UJ	0.100 U
Chrysene	25	--	25	0.0930 U	0.100 UJ	0.0980 U	0.0950 U	0.100 UJ	0.100 U
Dibenz(a,h)anthracene*	0.025	--	0.025	0.140 U	0.150 UJ	0.150 U	0.140 U	0.150 UJ	0.150 U
Fluoranthene	800	--	800	0.140 U	0.150 U	0.150 U	0.140 U	0.150 UJ	0.150 U
Fluorene	290	--	290	0.140 U	0.150 U	0.150 U	0.140 U	0.150 UJ	0.150 U
Indeno(1,2,3-c,d)pyrene	0.25	--	0.25	0.140 U	0.150 UJ	0.150 U	0.140 U	0.150 UJ	0.150 U
Naphthalene*	0.12	--	0.12	0.140 U	0.150 U	0.150 U	0.140 U	0.150 UJ	0.150 U
Phenanthrene	--	--	--	0.140 U	0.150 U	0.150 U	0.140 U	0.150 UJ	0.150 U
Pyrene	120	--	120	0.190 U	0.210 U	0.200 U	0.190 U	0.200 UJ	0.200 U
METALS (UG/L)									
Aluminum	20000	--	20000	**110**	**84.0 J**	**120**	**190**	**52.0 J**	40.0 U
Antimony	7.8	6	6	0.500 U	0.500 U	**0.0820 J**	0.500 U	0.500 U	**0.0690 J**
Arsenic*	0.052	10	0.052	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Barium	3800	2000	2000	**10.8**	**13.6**	**13.4**	**8.58**	**15.0**	**11.7**
Beryllium	25	4	4	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Cadmium	1.8	5	1.8	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	**0.0310 J**
Calcium	--	--	--	**42500**	**50400**	**56000**	**57500**	**91900**	**57600**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

				Location	MW-8			MW-20		
				Sample ID	DOW-MW08-042524	DOW-MW08-062524	DOW-MW08-0924	DOW-MW20-042424	DOW-MW20-062624	DOW-MW20-0924
				Sampling Date	25-Apr-24	25-Jun-24	16-Sep-24	24-Apr-24	26-Jun-24	17-Sep-24
				QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
Chromium	--	100	100		4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Cobalt	6	--	6		**0.520 J**	**1.54**	**1.89**	**0.270 J**	**0.300 J**	**0.470 J**
Copper	800	1300	800		**3.60**	2.00 U	2.00 U	**1.60 J**	**1.30 J**	2.00 U
METALS (UG/L)										
Iron	14000	--	14000		**260**	**435**	**1650**	**322**	**140**	**233**
Lead	15	15	15		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Magnesium	--	--	--		**6490**	**10000**	**13000**	**2550**	**4970**	**4430**
Manganese	430	--	430		**117**	**530**	**516**	**201**	**710**	**1210**
Nickel	390	--	390		**0.640 J**	1.20 U	**2.40**	1.20 U	1.20 U	**3.79**
Potassium	--	--	--		**820 J**	**1100**	**1400**	**880 J**	**1500**	**1390**
Selenium	100	50	50		3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Silver	94	--	94		0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Sodium	--	--	--		**10000**	**12000**	**12300**	**16700**	**39200**	**37800**
Thallium*	0.2	2	0.2		0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Vanadium	86	--	86		4.00 U	4.00 U	**0.990 J**	4.00 U	4.00 U	**0.930 J**
Zinc	6000	--	6000		8.00 U	8.00 U	8.00 U	8.00 U	**6.90 J**	8.00 U
METAL (Diss) (UG/L)										
Aluminum, Dissolved	20000	--	20000		40.0 U	**20.0 J**	40.0 U	40.0 U	40.0 U	40.0 U
Antimony, Dissolved	7.8	6	6		0.500 U	0.500 U	**0.0750 J**	0.500 U	0.500 U	0.500 U
Arsenic, Dissolved*	0.052	10	0.052		4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Barium, Dissolved	3800	2000	2000		**10.3**	**16.1**	**13.0**	**7.51**	**8.04**	**10.9**
Beryllium, Dissolved	25	4	4		0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Cadmium, Dissolved	1.8	5	1.8		0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	**0.0360 J**
Calcium, Dissolved	--	--	--		**41000**	**64900**	**54200**	**58600**	**68600**	**58600**
Chromium, Dissolved	--	100	100		4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Cobalt, Dissolved	6	--	6		**0.400 J**	**1.74**	**1.68**	0.300 U	**0.200 J**	**0.320 J**
Copper, Dissolved	800	1300	800		**1.40 J**	**1.60 J**	**0.580 J**	**1.10 J**	2.00 U	**1.10 J**
Iron, Dissolved	14000	--	14000		**66.0 J**	**332**	**1340**	60.0 U	60.0 U	**130**
Lead, Dissolved	15	15	15		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Magnesium, Dissolved	--	--	--		**6920**	**14400**	**12700**	**2790**	**3770**	**4910**
Manganese, Dissolved	430	--	430		**101**	**617**	**500**	**106**	**490**	**1130**
Nickel, Dissolved	390	--	390		**0.670 J**	**1.30 J**	**1.40 J**	1.20 U	1.20 U	1.20 U
Potassium, Dissolved	--	--	--		**830 J**	**1500**	**1340**	**900 J**	**1100**	**1410**
Selenium, Dissolved	100	50	50		3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Silver, Dissolved	94	--	94		0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Sodium, Dissolved	--	--	--		**10200**	**16200**	**12300**	**18300**	**30000**	**41800**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-8			MW-20		
			Sample ID	DOW-MW08-042524	DOW-MW08-062524	DOW-MW08-0924	DOW-MW20-042424	DOW-MW20-062624	DOW-MW20-0924
			Sampling Date	25-Apr-24	25-Jun-24	16-Sep-24	24-Apr-24	26-Jun-24	17-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Thallium, Dissolved*	0.2	2	0.2	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Vanadium, Dissolved	86	--	86	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Zinc, Dissolved	6000	--	6000	8.00 U	**7.30 J**	8.00 U	8.00 U	8.00 U	8.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-8			MW-20		
			Sample ID	DOW-MW08-042524	DOW-MW08-062524	DOW-MW08-0924	DOW-MW20-042424	DOW-MW20-062624	DOW-MW20-0924
			Sampling Date	25-Apr-24	25-Jun-24	16-Sep-24	24-Apr-24	26-Jun-24	17-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
CR (Diss) (UG/L)									
Hexavalent Chromium, Dissolved	0.035	--	0.035	NA	0.0150 UJ	0.0150 UJ	NA	0.0150 UJ	0.0150 UJ
HG (UG/L)									
Mercury	0.63	2	0.63	0.100 U	**0.0570 J**	0.100 U	0.100 U	0.100 U	0.100 U
HG (Diss) (UG/L)									
Mercury, Dissolved	0.63	2	0.63	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U

Notes:

Bold = detected

Shaded = detected above the screening level (SL)

SLs are the lowest of:

May 2022 EPA RSLs Tap Water

2022 EPA Maximum Contaminant Levels (MCLs)

*Screening Level is below the Laboratory Limits

-- - No SL available

J - Estimated Value

U - Undetected: The analyte was analyzed for, but not detected.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in r
specific quality control criteria.

UG/L - Micrograms per Liter

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-23			MW-301		
			Sample ID	DOW-MW23-042324	DOW-MW23-062524	DOW-MW23-0924	DOW-MW-301-042224	DOW-MW301-062624	DOW-MW-301-0924
			Sampling Date	23-Apr-24	25-Jun-24	17-Sep-24	22-Apr-24	26-Jun-24	17-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
VOC (UG/L)									
1,1,1,2-Tetrachloroethane	0.57	--	0.57	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,1-Trichloroethane	8000	200	200	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,2,2-Tetrachloroethane	0.076	--	0.076	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,2-Trichloro-1,2,2-trifluoroethane	10000	--	10000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1,2-Trichloroethane*	0.28	5	0.28	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1-Dichloroethane	2.8	--	2.8	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1-Dichloroethene	280	7	7	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2,3-Trichlorobenzene	7	--	7	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,2,3-Trichloropropane*	0.00075	--	0.00075	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2,4-Trichlorobenzene	1.2	70	1.2	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,2,4-Trimethylbenzene	56	--	56	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dibromo-3-chloropropane*	0.00033	0.2	0.00033	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dibromoethane (EDB)*	0.0075	0.05	0.0075	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichlorobenzene	300	600	300	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethane	0.17	5	0.17	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethene	--	--	--	1.00 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U
1,2-Dichloropropane	0.85	5	0.85	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trichlorobenzene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trimethylbenzene	60	--	60	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3-Dichlorobenzene	--	--	--	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,3-Dichloropropane	370	--	370	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,4-Dichlorobenzene	0.48	75	0.48	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2,2-Dichloropropane	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 UJ
2-Butanone (MEK)	5600	--	5600	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
2-Chloroethyl vinyl ether	--	--	--	NA	2.50 U	NA	NA	2.50 U	NA
2-Chlorotoluene	240	--	240	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Hexanone	38	--	38	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
4-Chlorotoluene	250	--	250	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
4-Methyl-2-pentanone (MIBK)	6300	--	6300	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Acetone	18000	--	18000	5.00 U	**2.80 J**	5.00 U	5.00 U	5.00 U	5.00 U
Benzene*	0.46	5	0.46	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Bromobenzene	62	--	62	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromochloromethane	83	--	83	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromodichloromethane*	0.13	80	0.13	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-23			MW-301		
			Sample ID	DOW-MW23-042324	DOW-MW23-062524	DOW-MW23-0924	DOW-MW-301-042224	DOW-MW301-062624	DOW-MW-301-0924
			Sampling Date	23-Apr-24	25-Jun-24	17-Sep-24	22-Apr-24	26-Jun-24	17-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Bromoform	3.3	80	3.3	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
VOC (UG/L)									
Bromomethane	7.5	--	7.5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Carbon disulfide	810	--	810	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Carbon Tetrachloride*	0.46	5	0.46	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chlorobenzene	78	100	78	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chloroethane	8300	--	8300	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Chloroform*	0.22	80	0.22	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Chloromethane	190	--	190	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
cis-1,2-Dichloroethene	36	70	36	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
cis-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Cumene	450	--	450	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Cyclohexane	13000	--	13000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Dibromochloromethane	0.87	80	0.87	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Dibromomethane	8.3	--	8.3	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dichlorodifluoromethane	200	--	200	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Diethyl ether (Ethyl ether)	3900	--	3900	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethyl methacrylate	630	--	630	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Ethylbenzene	1.5	700	1.5	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Hexachlorobutadiene*	0.14	--	0.14	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
m,p-Xylene	--	--	--	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Methyl acetate	20000	--	20000	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Methyl tert-butyl ether (MTBE)	14	--	14	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Methylcyclohexane	--	--	--	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Methylene chloride	11	5	5	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Naphthalene*	0.12	--	0.12	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
n-Butylbenzene	1000	--	1000	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
n-Propylbenzene	660	--	660	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
o-Xylene	190	--	190	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
p-Cymene (p-Isopropyltoluene)	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
sec-Butylbenzene	2000	--	2000	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Styrene	1200	100	100	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
tert-Butyl alcohol	150	--	150	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ
tert-Butylbenzene	690	--	690	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Tetrachloroethene (PCE)	11	5	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrahydrofuran	3400	--	3400	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-23			MW-301		
			Sample ID	DOW-MW23-042324	DOW-MW23-062524	DOW-MW23-0924	DOW-MW-301-042224	DOW-MW301-062624	DOW-MW-301-0924
			Sampling Date	23-Apr-24	25-Jun-24	17-Sep-24	22-Apr-24	26-Jun-24	17-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Toluene	1100	1000	1000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Total, 1,3-Dichloropropene	0.47	--	0.47	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
VOC (UG/L)									
trans-1,2-Dichloroethene	68	100	68	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
trans-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Trichloroethene (TCE)*	0.49	5	0.49	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Trichlorofluoromethane	5200	--	5200	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Vinyl acetate	410	--	410	1.00 UJ	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U
Vinyl chloride*	0.019	2	0.019	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Xylenes, Total	190	10000	190	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
SVOC (UG/L)									
2-Methylnaphthalene	36	--	36	0.220 U	0.210 U	0.200 U	0.190 U	0.220 U	0.190 U
Acenaphthene	530	--	530	0.160 U	0.160 U	0.150 U	0.140 U	0.160 U	0.140 U
Acenaphthylene	--	--	--	0.160 U	0.160 U	0.150 U	0.140 U	0.160 U	0.140 U
Anthracene	1800	--	1800	0.110 U	0.100 U	0.100 U	0.0950 U	0.110 U	0.0950 U
Benzo(a)anthracene*	0.03	--	0.03	0.110 U	0.100 U	0.100 U	0.0950 U	0.110 U	0.0950 UJ
Benzo(a)pyrene*	0.025	0.2	0.025	0.160 U	0.160 UJ	0.150 U	0.140 U	0.160 UJ	0.140 UJ
Benzo(b)fluoranthene	0.25	--	0.25	0.220 U	0.210 UJ	0.200 U	0.190 U	0.220 U	0.190 UJ
Benzo(g,h,i)perylene	--	--	--	0.160 U	0.160 UJ	0.150 U	0.140 U	0.160 UJ	0.140 UJ
Benzo(k)fluoranthene	2.5	--	2.5	0.110 U	0.100 UJ	0.100 U	0.0950 U	0.110 UJ	0.0950 UJ
Chrysene	25	--	25	0.110 U	0.100 UJ	0.100 U	0.0950 U	0.110 U	0.0950 UJ
Dibenz(a,h)anthracene*	0.025	--	0.025	0.160 U	0.160 UJ	0.150 U	0.140 U	0.160 UJ	0.140 UJ
Fluoranthene	800	--	800	0.160 U	0.160 U	0.150 U	0.140 U	0.160 U	0.140 UJ
Fluorene	290	--	290	0.160 U	0.160 U	0.150 U	0.140 U	0.160 U	0.140 U
Indeno(1,2,3-c,d)pyrene	0.25	--	0.25	0.160 U	0.160 UJ	0.150 U	0.140 U	0.160 UJ	0.140 UJ
Naphthalene*	0.12	--	0.12	0.160 U	0.160 U	0.150 U	0.140 U	0.160 U	0.140 U
Phenanthrene	--	--	--	0.160 U	0.160 U	0.150 U	0.140 U	0.160 U	0.140 U
Pyrene	120	--	120	0.220 U	0.210 U	0.200 U	0.190 U	0.220 U	0.190 UJ
METALS (UG/L)									
Aluminum	20000	--	20000	**315**	**76.0 J**	40.0 U	**200**	40.0 U	40.0 U
Antimony	7.8	6	6	0.500 U	0.500 U	**0.0700 J**	0.500 U	0.500 U	**0.0920 J**
Arsenic*	0.052	10	0.052	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Barium	3800	2000	2000	**12.8**	**22.0**	**23.8**	**5.84**	**4.00**	**2.60**
Beryllium	25	4	4	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Cadmium	1.8	5	1.8	0.200 U	**0.110 J**	**0.110 J**	**0.160 J**	0.200 U	0.200 U
Calcium	--	--	--	**31800**	**61000**	**61300**	**49000**	**51900**	**47100**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-23			MW-301		
			Sample ID	DOW-MW23-042324	DOW-MW23-062524	DOW-MW23-0924	DOW-MW-301-042224	DOW-MW301-062624	DOW-MW-301-0924
			Sampling Date	23-Apr-24	25-Jun-24	17-Sep-24	22-Apr-24	26-Jun-24	17-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Chromium	--	100	100	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Cobalt	6	--	6	**0.180 J**	**0.350 J**	**0.330 J**	**0.490 J**	0.300 U	**0.100 J**
Copper	800	1300	800	2.00 U	**1.20 J**	2.00 U	2.00 U	2.00 U	2.00 U
METALS (UG/L)									
Iron	14000	--	14000	**519**	**120**	**39.0 J**	**210**	60.0 U	60.0 U
Lead	15	15	15	**0.290 J**	0.500 U	0.500 U	**0.330 J**	0.500 U	0.500 U
Magnesium	--	--	--	**2520**	**11500**	**13100**	**11000**	**11600**	**10400**
Manganese	430	--	430	**104**	**1450**	**2260**	**47.3**	**25.7**	**8.14**
Nickel	390	--	390	1.20 U	1.20 U	1.20 U	**0.860 J**	1.20 U	1.20 U
Potassium	--	--	--	**1300**	**1900**	**2460**	**1300**	**1300**	**1280**
Selenium	100	50	50	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Silver	94	--	94	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Sodium	--	--	--	**15800**	**30200**	**34200**	**5810**	**6060**	**5460**
Thallium*	0.2	2	0.2	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Vanadium	86	--	86	4.00 U	4.00 U	**0.750 J**	4.00 U	4.00 U	**0.870 J**
Zinc	6000	--	6000	8.00 U	8.00 U	8.00 U	8.00 U	8.00 U	8.00 U
METAL (Diss) (UG/L)									
Aluminum, Dissolved	20000	--	20000	40.0 U	**40.0 J**	40.0 U	40.0 U	40.0 U	40.0 U
Antimony, Dissolved	7.8	6	6	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.0650 J**
Arsenic, Dissolved*	0.052	10	0.052	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Barium, Dissolved	3800	2000	2000	**10.9**	**29.7**	**24.2**	**5.00**	**3.80**	**2.40**
Beryllium, Dissolved	25	4	4	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Cadmium, Dissolved	1.8	5	1.8	0.200 U	**0.110 J**	**0.120 J**	0.200 U	0.200 U	0.200 U
Calcium, Dissolved	--	--	--	**32000**	**90200**	**65300**	**48500**	**50700**	**46700**
Chromium, Dissolved	--	100	100	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Cobalt, Dissolved	6	--	6	0.300 U	**0.620 J**	**0.500 J**	0.300 U	0.300 U	0.300 U
Copper, Dissolved	800	1300	800	**1.20 J**	**1.60 J**	**2.29 J**	2.00 U	**1.00 J**	2.00 U
Iron, Dissolved	14000	--	14000	60.0 U	**50.0 J**	**28.0 J**	60.0 U	60.0 U	60.0 U
Lead, Dissolved	15	15	15	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Magnesium, Dissolved	--	--	--	**2690**	**18400**	**15200**	**10900**	**11400**	**10600**
Manganese, Dissolved	430	--	430	**4.80**	**2340**	**2740**	**34.6**	**13.7**	**6.69**
Nickel, Dissolved	390	--	390	**0.650 J**	**0.830 J**	**1.30 J**	1.20 U	1.20 U	1.20 U
Potassium, Dissolved	--	--	--	**1300**	**2650**	**2430**	**1300**	**1300**	**1340**
Selenium, Dissolved	100	50	50	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Silver, Dissolved	94	--	94	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Sodium, Dissolved	--	--	--	**16100**	**44400**	**37800**	**5780**	**5940**	**5560**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-23			MW-301		
			Sample ID	DOW-MW23-042324	DOW-MW23-062524	DOW-MW23-0924	DOW-MW-301-042224	DOW-MW301-062624	DOW-MW-301-0924
			Sampling Date	23-Apr-24	25-Jun-24	17-Sep-24	22-Apr-24	26-Jun-24	17-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Thallium, Dissolved*	0.2	2	0.2	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Vanadium, Dissolved	86	--	86	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	**0.990 J**
Zinc, Dissolved	6000	--	6000	8.00 U	8.00 U	**5.00 J**	8.00 U	8.00 U	8.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-23			MW-301		
			Sample ID	DOW-MW23-042324	DOW-MW23-062524	DOW-MW23-0924	DOW-MW-301-042224	DOW-MW301-062624	DOW-MW-301-0924
			Sampling Date	23-Apr-24	25-Jun-24	17-Sep-24	22-Apr-24	26-Jun-24	17-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
CR (Diss) (UG/L)									
Hexavalent Chromium, Dissolved	0.035	--	0.035	NA	0.0150 UJ	0.0150 UJ	NA	**0.0600 J**	0.0150 UJ
HG (UG/L)									
Mercury	0.63	2	0.63	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
HG (Diss) (UG/L)									
Mercury, Dissolved	0.63	2	0.63	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U

Notes:

Bold = detected

Shaded = detected above the screening level (SL)

SLs are the lowest of:

May 2022 EPA RSLs Tap Water

2022 EPA Maximum Contaminant Levels (MCLs)

*Screening Level is below the Laboratory Limits

-- - No SL available

J - Estimated Value

U - Undetected: The analyte was analyzed for, but not detected.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in r
specific quality control criteria.

UG/L - Micrograms per Liter

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-302			MW-303			
			Sample ID	DOW-MW-302-042224	DOW-MW302-062624	DOW-MW-302-0924	DOW-MW-303-042224	DOW-MW303-062624	DOW-MW-303-0924	DOW-GW-DUP3 (FD)
			Sampling Date	22-Apr-24	26-Jun-24	18-Sep-24	22-Apr-24	26-Jun-24	17-Sep-24	17-Sep-24
			QC Identifier						DUPLICATE	DUPLICATE
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
VOC (UG/L)										
1,1,1,2-Tetrachloroethane	0.57	--	0.57	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,1-Trichloroethane	8000	200	200	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,2,2-Tetrachloroethane	0.076	--	0.076	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,2-Trichloro-1,2,2-trifluoroethane	10000	--	10000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1,2-Trichloroethane*	0.28	5	0.28	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1-Dichloroethane	2.8	--	2.8	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1-Dichloroethene	280	7	7	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2,3-Trichlorobenzene	7	--	7	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,2,3-Trichloropropane*	0.00075	--	0.00075	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2,4-Trichlorobenzene	1.2	70	1.2	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,2,4-Trimethylbenzene	56	--	56	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dibromo-3-chloropropane*	0.00033	0.2	0.00033	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dibromoethane (EDB)*	0.0075	0.05	0.0075	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichlorobenzene	300	600	300	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethane	0.17	5	0.17	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethene	--	--	--	1.00 U	0.500 U	0.500 U	**2.00**	**1.90**	**2.70**	**3.10**
1,2-Dichloropropane	0.85	5	0.85	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trichlorobenzene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trimethylbenzene	60	--	60	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3-Dichlorobenzene	--	--	--	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,3-Dichloropropane	370	--	370	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,4-Dichlorobenzene	0.48	75	0.48	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2,2-Dichloropropane	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Butanone (MEK)	5600	--	5600	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
2-Chloroethyl vinyl ether	--	--	--	NA	2.50 U	NA	NA	2.50 U	NA	NA
2-Chlorotoluene	240	--	240	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Hexanone	38	--	38	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
4-Chlorotoluene	250	--	250	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
4-Methyl-2-pentanone (MIBK)	6300	--	6300	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Acetone	18000	--	18000	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzene*	0.46	5	0.46	0.750 U	0.750 U	0.750 U	**1.80**	**1.10**	**1.10**	**1.10**
Bromobenzene	62	--	62	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromochloromethane	83	--	83	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromodichloromethane*	0.13	80	0.13	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-302			MW-303			
			Sample ID	DOW-MW-302-042224	DOW-MW302-062624	DOW-MW-302-0924	DOW-MW-303-042224	DOW-MW303-062624	DOW-MW-303-0924	DOW-GW-DUP3 (FD)
			Sampling Date	22-Apr-24	26-Jun-24	18-Sep-24	22-Apr-24	26-Jun-24	17-Sep-24	17-Sep-24
			QC Identifier						DUPLICATE	DUPLICATE
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
Bromoform	3.3	80	3.3	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
VOC (UG/L)										
Bromomethane	7.5	--	7.5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Carbon disulfide	810	--	810	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Carbon Tetrachloride*	0.46	5	0.46	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chlorobenzene	78	100	78	0.500 U	0.500 U	0.500 U	**9.40**	**6.80**	**6.80**	**6.10**
Chloroethane	8300	--	8300	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Chloroform*	0.22	80	0.22	0.750 U	0.750 U	0.750 U	0.750 U	**0.510 J**	0.750 U	0.750 U
Chloromethane	190	--	190	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
cis-1,2-Dichloroethene	36	70	36	0.500 U	0.500 U	0.500 U	**2.00**	**1.90**	**2.70**	**3.10**
cis-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Cumene	450	--	450	0.500 U	0.500 U	0.500 U	**0.330 J**	0.500 U	0.500 U	0.500 U
Cyclohexane	13000	--	13000	0.750 U	0.750 U	0.750 U	**2.60**	**0.900 J**	**1.00**	**0.980 J**
Dibromochloromethane	0.87	80	0.87	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Dibromomethane	8.3	--	8.3	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dichlorodifluoromethane	200	--	200	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Diethyl ether (Ethyl ether)	3900	--	3900	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethyl methacrylate	630	--	630	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Ethylbenzene	1.5	700	1.5	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Hexachlorobutadiene*	0.14	--	0.14	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
m,p-Xylene	--	--	--	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Methyl acetate	20000	--	20000	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Methyl tert-butyl ether (MTBE)	14	--	14	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Methylcyclohexane	--	--	--	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Methylene chloride	11	5	5	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Naphthalene*	0.12	--	0.12	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
n-Butylbenzene	1000	--	1000	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
n-Propylbenzene	660	--	660	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
o-Xylene	190	--	190	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
p-Cymene (p-Isopropyltoluene)	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
sec-Butylbenzene	2000	--	2000	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Styrene	1200	100	100	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
tert-Butyl alcohol	150	--	150	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
tert-Butylbenzene	690	--	690	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	**0.380 J**	0.750 U
Tetrachloroethene (PCE)	11	5	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrahydrofuran	3400	--	3400	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-302			MW-303			
			Sample ID	DOW-MW-302-042224	DOW-MW302-062624	DOW-MW-302-0924	DOW-MW-303-042224	DOW-MW303-062624	DOW-MW-303-0924	DOW-GW-DUP3 (FD)
			Sampling Date	22-Apr-24	26-Jun-24	18-Sep-24	22-Apr-24	26-Jun-24	17-Sep-24	17-Sep-24
			QC Identifier						DUPLICATE	DUPLICATE
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
Toluene	1100	1000	1000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Total, 1,3-Dichloropropene	0.47	--	0.47	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
VOC (UG/L)										
trans-1,2-Dichloroethene	68	100	68	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
trans-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Trichloroethene (TCE)*	0.49	5	0.49	0.750 U	0.750 U	0.750 U	**0.730 J**	**1.20**	**1.00**	**1.20**
Trichlorofluoromethane	5200	--	5200	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Vinyl acetate	410	--	410	1.00 UJ	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U	1.00 U
Vinyl chloride*	0.019	2	0.019	1.00 U	1.00 U	1.00 U	**0.950 J**	**0.830 J**	**0.840 J**	**1.00 J**
Xylenes, Total	190	10000	190	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
SVOC (UG/L)										
2-Methylnaphthalene	36	--	36	0.190 U	0.200 U	0.200 U	0.190 U	0.220 U	0.200 U	0.210 U
Acenaphthene	530	--	530	0.140 U	0.150 U	0.150 U	0.140 U	0.160 U	0.150 U	0.160 U
Acenaphthylene	--	--	--	0.140 U	0.150 U	0.150 U	0.140 U	0.160 U	0.150 U	0.160 U
Anthracene	1800	--	1800	0.0940 U	0.0990 U	0.100 U	0.0960 U	0.110 U	0.100 U	0.100 U
Benzo(a)anthracene*	0.03	--	0.03	0.0940 U	0.0990 U	0.100 U	0.0960 U	0.110 U	0.100 U	0.100 U
Benzo(a)pyrene*	0.025	0.2	0.025	0.140 U	0.150 UJ	0.150 U	0.140 U	0.160 UJ	0.150 U	0.160 U
Benzo(b)fluoranthene	0.25	--	0.25	0.190 U	0.200 U	0.200 U	0.190 U	0.220 UJ	0.200 U	0.210 U
Benzo(g,h,i)perylene	--	--	--	0.140 U	0.150 UJ	0.150 U	0.140 U	0.160 UJ	0.150 U	0.160 U
Benzo(k)fluoranthene	2.5	--	2.5	0.0940 U	0.0990 UJ	0.100 U	0.0960 U	0.110 UJ	0.100 U	0.100 U
Chrysene	25	--	25	0.0940 U	0.0990 U	0.100 U	0.0960 U	0.110 UJ	0.100 U	0.100 U
Dibenz(a,h)anthracene*	0.025	--	0.025	0.140 U	0.150 UJ	0.150 U	0.140 U	0.160 UJ	0.150 U	0.160 U
Fluoranthene	800	--	800	0.140 U	0.150 U	0.150 U	0.140 U	0.160 U	0.150 U	0.160 U
Fluorene	290	--	290	0.140 U	0.150 U	0.150 U	0.140 U	0.160 U	0.150 U	0.160 U
Indeno(1,2,3-c,d)pyrene	0.25	--	0.25	0.140 U	0.150 UJ	0.150 U	0.140 U	0.160 UJ	0.150 U	0.160 U
Naphthalene*	0.12	--	0.12	0.140 U	0.150 U	0.150 U	0.140 U	0.160 U	0.150 U	0.160 U
Phenanthrene	--	--	--	0.140 U	0.150 U	0.150 U	0.140 U	0.160 U	0.150 U	0.160 U
Pyrene	120	--	120	0.190 U	0.200 U	0.200 U	0.190 U	0.220 U	0.200 U	0.210 U
METALS (UG/L)										
Aluminum	20000	--	20000	**180**	**47.0 J**	40.0 U	**61.0 J**	**100**	40.0 U	**618 J**
Antimony	7.8	6	6	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.140 J**	**0.0660 J**
Arsenic*	0.052	10	0.052	**3.60 J**	**3.60 J**	**3.40 J**	**21.0**	**31.0**	**26.3**	**25.1**
Barium	3800	2000	2000	**14.6**	**12.0**	**12.5**	**27.3**	**34.9**	**25.5**	**25.0**
Beryllium	25	4	4	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Cadmium	1.8	5	1.8	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Calcium	--	--	--	**76200**	**72900**	**69700**	**80600**	**108000**	**80300**	**76000**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-302			MW-303			
			Sample ID	DOW-MW-302-042224	DOW-MW302-062624	DOW-MW-302-0924	DOW-MW-303-042224	DOW-MW303-062624	DOW-MW-303-0924	DOW-GW-DUP3 (FD)
			Sampling Date	22-Apr-24	26-Jun-24	18-Sep-24	22-Apr-24	26-Jun-24	17-Sep-24	17-Sep-24
			QC Identifier						DUPLICATE	DUPLICATE
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
Chromium	--	100	100	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Cobalt	6	--	6	**0.620 J**	**0.440 J**	**0.400 J**	**1.78**	**2.20**	**1.52**	**1.55**
Copper	800	1300	800	**5.60**	2.00 U	**0.730 J**	2.00 U	**1.60 J**	2.00 U	2.00 U
METALS (UG/L)										
Iron	14000	--	14000	**260**	**92.0 J**	**88.0 J**	**4020**	**5500**	**4060**	**3940**
Lead	15	15	15	**0.500 J**	0.500 U	**0.250 J**	0.500 U	0.500 U	0.500 U	0.500 U
Magnesium	--	--	--	**19200**	**17300**	**16100**	**22300**	**27500**	**20900**	**19600**
Manganese	430	--	430	**785**	**753**	**620**	**2830**	**3680**	**2550**	**2480**
Nickel	390	--	390	1.20 U	1.20 U	**1.40 J**	**1.90 J**	**2.30**	**0.530 J**	**0.770 J**
Potassium	--	--	--	**3750**	**3710**	**3660**	**2000**	**2660**	**2340**	**2260**
Selenium	100	50	50	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Silver	94	--	94	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Sodium	--	--	--	**12500**	**12100**	**12700**	**17000**	**23100**	**18000**	**17100**
Thallium*	0.2	2	0.2	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	**0.520 J**	0.400 U
Vanadium	86	--	86	4.00 U	4.00 U	**2.00 J**	4.00 U	4.00 U	**0.680 J**	**0.640 J**
Zinc	6000	--	6000	8.00 U	8.00 U	**116**	8.00 U	8.00 U	8.00 U	8.00 U
METAL (Diss) (UG/L)										
Aluminum, Dissolved	20000	--	20000	**26.0 J**	40.0 U	40.0 U	40.0 U	40.0 U	40.0 U	40.0 U
Antimony, Dissolved	7.8	6	6	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.0560 J**	**0.0800 J**
Arsenic, Dissolved*	0.052	10	0.052	**3.70 J**	**3.90 J**	**3.00 J**	**22.0**	**24.0**	**23.7**	**25.7**
Barium, Dissolved	3800	2000	2000	**13.8**	**12.5**	**10.9**	**26.6**	**25.9**	**22.9**	**23.8**
Beryllium, Dissolved	25	4	4	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Cadmium, Dissolved	1.8	5	1.8	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Calcium, Dissolved	--	--	--	**76200**	**77000**	**65200**	**80200**	**83500**	**73800**	**75300**
Chromium, Dissolved	--	100	100	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Cobalt, Dissolved	6	--	6	**0.440 J**	**0.270 J**	**0.310 J**	**1.68**	**1.61**	**1.28**	**1.39**
Copper, Dissolved	800	1300	800	2.00 U	2.00 U	**0.640 J**	2.00 U	2.00 U	2.00 U	2.00 U
Iron, Dissolved	14000	--	14000	**45.0 J**	**57.0 J**	**48.0 J**	**4180**	**4440**	**3690**	**3860**
Lead, Dissolved	15	15	15	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Magnesium, Dissolved	--	--	--	**19600**	**18200**	**15400**	**21600**	**20300**	**19100**	**20000**
Manganese, Dissolved	430	--	430	**779**	**802**	**563**	**2900**	**2900**	**2350**	**2480**
Nickel, Dissolved	390	--	390	**0.720 J**	1.20 U	1.20 U	**2.20**	**0.890 J**	**0.950 J**	**0.740 J**
Potassium, Dissolved	--	--	--	**3700**	**3850**	**3380**	**1900**	**2010**	**2190**	**2240**
Selenium, Dissolved	100	50	50	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Silver, Dissolved	94	--	94	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Sodium, Dissolved	--	--	--	**12900**	**13000**	**12100**	**16600**	**17700**	**16800**	**17600**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-302			MW-303			
			Sample ID	DOW-MW-302-042224	DOW-MW302-062624	DOW-MW-302-0924	DOW-MW-303-042224	DOW-MW303-062624	DOW-MW-303-0924	DOW-GW-DUP3 (FD)
			Sampling Date	22-Apr-24	26-Jun-24	18-Sep-24	22-Apr-24	26-Jun-24	17-Sep-24	17-Sep-24
			QC Identifier						DUPLICATE	DUPLICATE
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
Thallium, Dissolved*	0.2	2	0.2	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	**0.500 J**	0.400 U
Vanadium, Dissolved	86	--	86	4.00 U	4.00 U	**1.00 J**	4.00 U	4.00 U	**0.720 J**	**0.690 J**
Zinc, Dissolved	6000	--	6000	8.00 U	8.00 U	**43.6**	8.00 U	8.00 U	8.00 U	8.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-302			MW-303			
			Sample ID	DOW-MW-302-042224	DOW-MW302-062624	DOW-MW-302-0924	DOW-MW-303-042224	DOW-MW303-062624	DOW-MW-303-0924	DOW-GW-DUP3 (FD)
			Sampling Date	22-Apr-24	26-Jun-24	18-Sep-24	22-Apr-24	26-Jun-24	17-Sep-24	17-Sep-24
			QC Identifier						DUPLICATE	DUPLICATE
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
CR (Diss) (UG/L)										
Hexavalent Chromium, Dissolved	0.035	--	0.035	NA	0.0150 UJ	0.0150 UJ	NA	0.0150 UJ	0.0150 UJ	0.0150 UJ
HG (UG/L)										
Mercury	0.63	2	0.63	0.100 U	0.100 U	0.100 U	0.100 U	**0.0530 J**	0.100 U	0.100 U
HG (Diss) (UG/L)										
Mercury, Dissolved	0.63	2	0.63	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U

Notes:

Bold = detected

Shaded = detected above the screening level (SL)

SLs are the lowest of:

May 2022 EPA RSLs Tap Water

2022 EPA Maximum Contaminant Levels (MCLs)

*Screening Level is below the Laboratory Limits

-- - No SL available

J - Estimated Value

U - Undetected: The analyte was analyzed for, but not detected.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in r
specific quality control criteria.

UG/L - Micrograms per Liter

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-304			MW-305		
			Sample ID	DOW-MW-304-042424	DOW-MW304-062524	DOW-MW-304-0924	DOW-MW-305-042424	DOW-MW305-062624	DOW-MW-305-0924
			Sampling Date	24-Apr-24	25-Jun-24	16-Sep-24	24-Apr-24	26-Jun-24	17-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
VOC (UG/L)									
1,1,1,2-Tetrachloroethane	0.57	--	0.57	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,1-Trichloroethane	8000	200	200	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,2,2-Tetrachloroethane	0.076	--	0.076	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,2-Trichloro-1,2,2-trifluoroethane	10000	--	10000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1,2-Trichloroethane*	0.28	5	0.28	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1-Dichloroethane	2.8	--	2.8	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1-Dichloroethene	280	7	7	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2,3-Trichlorobenzene	7	--	7	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,2,3-Trichloropropane*	0.00075	--	0.00075	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2,4-Trichlorobenzene	1.2	70	1.2	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,2,4-Trimethylbenzene	56	--	56	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dibromo-3-chloropropane*	0.00033	0.2	0.00033	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dibromoethane (EDB)*	0.0075	0.05	0.0075	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichlorobenzene	300	600	300	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethane	0.17	5	0.17	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethene	--	--	--	1.00 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U
1,2-Dichloropropane	0.85	5	0.85	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trichlorobenzene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trimethylbenzene	60	--	60	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3-Dichlorobenzene	--	--	--	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,3-Dichloropropane	370	--	370	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,4-Dichlorobenzene	0.48	75	0.48	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2,2-Dichloropropane	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Butanone (MEK)	5600	--	5600	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
2-Chloroethyl vinyl ether	--	--	--	NA	2.50 U	NA	NA	2.50 U	NA
2-Chlorotoluene	240	--	240	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Hexanone	38	--	38	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
4-Chlorotoluene	250	--	250	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
4-Methyl-2-pentanone (MIBK)	6300	--	6300	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Acetone	18000	--	18000	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzene*	0.46	5	0.46	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Bromobenzene	62	--	62	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromochloromethane	83	--	83	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromodichloromethane*	0.13	80	0.13	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-304			MW-305		
			Sample ID	DOW-MW-304-042424	DOW-MW304-062524	DOW-MW-304-0924	DOW-MW-305-042424	DOW-MW305-062624	DOW-MW-305-0924
			Sampling Date	24-Apr-24	25-Jun-24	16-Sep-24	24-Apr-24	26-Jun-24	17-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Bromoform	3.3	80	3.3	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
VOC (UG/L)									
Bromomethane	7.5	--	7.5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Carbon disulfide	810	--	810	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.330 J**
Carbon Tetrachloride*	0.46	5	0.46	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chlorobenzene	78	100	78	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chloroethane	8300	--	8300	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Chloroform*	0.22	80	0.22	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Chloromethane	190	--	190	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
cis-1,2-Dichloroethene	36	70	36	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
cis-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Cumene	450	--	450	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Cyclohexane	13000	--	13000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Dibromochloromethane	0.87	80	0.87	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Dibromomethane	8.3	--	8.3	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dichlorodifluoromethane	200	--	200	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Diethyl ether (Ethyl ether)	3900	--	3900	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethyl methacrylate	630	--	630	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Ethylbenzene	1.5	700	1.5	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Hexachlorobutadiene*	0.14	--	0.14	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
m,p-Xylene	--	--	--	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Methyl acetate	20000	--	20000	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Methyl tert-butyl ether (MTBE)	14	--	14	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Methylcyclohexane	--	--	--	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Methylene chloride	11	5	5	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Naphthalene*	0.12	--	0.12	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
n-Butylbenzene	1000	--	1000	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
n-Propylbenzene	660	--	660	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
o-Xylene	190	--	190	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
p-Cymene (p-Isopropyltoluene)	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
sec-Butylbenzene	2000	--	2000	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Styrene	1200	100	100	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
tert-Butyl alcohol	150	--	150	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
tert-Butylbenzene	690	--	690	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Tetrachloroethene (PCE)	11	5	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrahydrofuran	3400	--	3400	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-304			MW-305		
			Sample ID	DOW-MW-304-042424	DOW-MW304-062524	DOW-MW-304-0924	DOW-MW-305-042424	DOW-MW305-062624	DOW-MW-305-0924
			Sampling Date	24-Apr-24	25-Jun-24	16-Sep-24	24-Apr-24	26-Jun-24	17-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Toluene	1100	1000	1000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Total, 1,3-Dichloropropene	0.47	--	0.47	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
VOC (UG/L)									
trans-1,2-Dichloroethene	68	100	68	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
trans-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Trichloroethene (TCE)*	0.49	5	0.49	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Trichlorofluoromethane	5200	--	5200	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Vinyl acetate	410	--	410	1.00 UJ	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U
Vinyl chloride*	0.019	2	0.019	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Xylenes, Total	190	10000	190	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
SVOC (UG/L)									
2-Methylnaphthalene	36	--	36	0.190 U	0.210 UJ	0.200 U	0.220 U	0.210 U	0.200 U
Acenaphthene	530	--	530	0.140 U	0.160 UJ	0.150 U	0.170 U	0.160 U	0.150 U
Acenaphthylene	--	--	--	0.140 U	0.160 UJ	0.150 U	0.170 U	0.160 U	0.150 U
Anthracene	1800	--	1800	0.0940 U	0.100 UJ	0.0990 U	0.110 U	0.100 U	0.100 U
Benzo(a)anthracene*	0.03	--	0.03	0.0940 UJ	0.100 UJ	0.0990 U	0.110 U	0.100 U	0.100 U
Benzo(a)pyrene*	0.025	0.2	0.025	0.140 UJ	0.160 UJ	0.150 U	0.170 U	0.160 UJ	0.150 U
Benzo(b)fluoranthene	0.25	--	0.25	0.190 UJ	0.210 UJ	0.200 U	0.220 U	0.210 U	0.200 U
Benzo(g,h,i)perylene	--	--	--	0.140 UJ	0.160 UJ	0.150 U	0.170 U	0.160 UJ	0.150 U
Benzo(k)fluoranthene	2.5	--	2.5	0.0940 UJ	0.100 UJ	0.0990 U	0.110 U	0.100 UJ	0.100 U
Chrysene	25	--	25	0.0940 UJ	0.100 UJ	0.0990 U	0.110 U	0.100 U	0.100 U
Dibenz(a,h)anthracene*	0.025	--	0.025	0.140 UJ	0.160 UJ	0.150 U	0.170 U	0.160 UJ	0.150 U
Fluoranthene	800	--	800	0.140 U	0.160 UJ	0.150 U	0.170 U	0.160 U	0.150 U
Fluorene	290	--	290	0.140 U	0.160 UJ	0.150 U	0.170 U	0.160 U	0.150 U
Indeno(1,2,3-c,d)pyrene	0.25	--	0.25	0.140 UJ	0.160 UJ	0.150 U	0.170 U	0.160 UJ	0.150 U
Naphthalene*	0.12	--	0.12	0.140 U	0.160 UJ	0.150 U	0.170 U	0.160 U	0.150 U
Phenanthrene	--	--	--	0.140 U	0.160 UJ	0.150 U	0.170 U	0.160 U	0.150 U
Pyrene	120	--	120	0.190 U	0.210 UJ	0.200 U	0.220 U	0.210 U	0.200 U
METALS (UG/L)									
Aluminum	20000	--	20000	**150**	**89.0 J**	40.0 U	**469**	**200**	**78.0 J**
Antimony	7.8	6	6	0.500 U	0.500 U	**0.110 J**	0.500 U	0.500 U	**0.130 J**
Arsenic*	0.052	10	0.052	4.00 U	4.00 U	4.00 U	**3.30 J**	**3.20 J**	**3.50 J**
Barium	3800	2000	2000	**3.00**	**3.10**	**1.90 J**	**16.3**	**13.9**	**11.5**
Beryllium	25	4	4	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Cadmium	1.8	5	1.8	0.200 U	0.200 U	0.200 U	**0.190 J**	0.200 U	0.200 U
Calcium	--	--	--	**27100**	**33000**	**22900**	**22600**	**23500**	**21400**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-304			MW-305		
			Sample ID	DOW-MW-304-042424	DOW-MW304-062524	DOW-MW-304-0924	DOW-MW-305-042424	DOW-MW305-062624	DOW-MW-305-0924
			Sampling Date	24-Apr-24	25-Jun-24	16-Sep-24	24-Apr-24	26-Jun-24	17-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Chromium	--	100	100	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Cobalt	6	--	6	0.300 U	0.300 U	0.300 U	**0.840 J**	**0.430 J**	**0.360 J**
Copper	800	1300	800	2.00 U	**1.40 J**	2.00 U	**2.50 J**	2.00 U	2.00 U
METALS (UG/L)									
Iron	14000	--	14000	**150**	**87.0 J**	60.0 U	**670**	**392**	**247**
Lead	15	15	15	0.500 U	0.500 U	0.500 U	**0.350 J**	**0.280 J**	0.500 U
Magnesium	--	--	--	**3710**	**4590**	**3160**	**9150**	**9730**	**8750**
Manganese	430	--	430	**10.6**	**9.04**	**2.50**	**1290**	**1230**	**970**
Nickel	390	--	390	1.20 U	1.20 U	1.20 U	**1.20 J**	1.20 U	1.20 U
Potassium	--	--	--	**670 J**	**800 J**	**713 J**	**2970**	**3000**	**3520**
Selenium	100	50	50	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Silver	94	--	94	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Sodium	--	--	--	**3380 J**	**4240**	**3050**	**17400**	**18200**	**17700**
Thallium*	0.2	2	0.2	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Vanadium	86	--	86	4.00 U	4.00 U	**0.810 J**	4.00 U	4.00 U	**0.780 J**
Zinc	6000	--	6000	8.00 U	8.00 U	8.00 U	8.00 U	**4.40 J**	8.00 U
METAL (Diss) (UG/L)									
Aluminum, Dissolved	20000	--	20000	40.0 U	40.0 U	40.0 U	**45.0 J**	**120**	40.0 U
Antimony, Dissolved	7.8	6	6	0.500 U	0.500 U	**0.0870 J**	0.500 U	0.500 U	**0.0720 J**
Arsenic, Dissolved*	0.052	10	0.052	4.00 U	4.00 U	4.00 U	**3.00 J**	**3.20 J**	**3.40 J**
Barium, Dissolved	3800	2000	2000	**3.40**	**2.20**	**1.80 J**	**12.6**	**12.1**	**10.5**
Beryllium, Dissolved	25	4	4	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Cadmium, Dissolved	1.8	5	1.8	**0.130 J**	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Calcium, Dissolved	--	--	--	**27000**	**26100 J**	**22400**	**22400**	**23400**	**21400**
Chromium, Dissolved	--	100	100	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Cobalt, Dissolved	6	--	6	**0.530 J**	0.300 U	0.300 U	**0.320 J**	**0.260 J**	**0.190 J**
Copper, Dissolved	800	1300	800	**1.30 J**	2.00 U	2.00 U	**1.60 J**	2.00 U	2.00 U
Iron, Dissolved	14000	--	14000	60.0 U	60.0 U	60.0 U	**190**	**270**	**150**
Lead, Dissolved	15	15	15	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Magnesium, Dissolved	--	--	--	**3650**	**3580**	**3140**	**8930**	**9480**	**8770**
Manganese, Dissolved	430	--	430	**2.70**	**1.70 J**	**1.10 J**	**1300**	**1200**	**912**
Nickel, Dissolved	390	--	390	**0.930 J**	1.20 U	1.20 U	**0.880 J**	1.20 U	1.20 U
Potassium, Dissolved	--	--	--	**670 J**	**620 J**	**718 J**	**2880**	**2900**	**3500**
Selenium, Dissolved	100	50	50	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Silver, Dissolved	94	--	94	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Sodium, Dissolved	--	--	--	**3390**	**3410**	**3080**	**17500**	**17900**	**17800**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-304			MW-305		
			Sample ID	DOW-MW-304-042424	DOW-MW304-062524	DOW-MW-304-0924	DOW-MW-305-042424	DOW-MW305-062624	DOW-MW-305-0924
			Sampling Date	24-Apr-24	25-Jun-24	16-Sep-24	24-Apr-24	26-Jun-24	17-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Thallium, Dissolved*	0.2	2	0.2	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Vanadium, Dissolved	86	--	86	4.00 U	4.00 U	**0.790 J**	4.00 U	4.00 U	**0.740 J**
Zinc, Dissolved	6000	--	6000	8.00 U	8.00 U	8.00 U	8.00 U	8.00 U	8.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-304			MW-305		
			Sample ID	DOW-MW-304-042424	DOW-MW304-062524	DOW-MW-304-0924	DOW-MW-305-042424	DOW-MW305-062624	DOW-MW-305-0924
			Sampling Date	24-Apr-24	25-Jun-24	16-Sep-24	24-Apr-24	26-Jun-24	17-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
CR (Diss) (UG/L)									
Hexavalent Chromium, Dissolved	0.035	--	0.035	NA	**0.140 J**	**0.140 J**	NA	0.0150 UJ	0.0150 UJ
HG (UG/L)									
Mercury	0.63	2	0.63	0.100 U	**0.0540 J**	0.100 U	0.100 U	0.100 U	0.100 U
HG (Diss) (UG/L)									
Mercury, Dissolved	0.63	2	0.63	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U

Notes:

Bold = detected

Shaded = detected above the screening level (SL)

SLs are the lowest of:

May 2022 EPA RSLs Tap Water

2022 EPA Maximum Contaminant Levels (MCLs)

*Screening Level is below the Laboratory Limits

-- - No SL available

J - Estimated Value

U - Undetected: The analyte was analyzed for, but not detected.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in r
specific quality control criteria.

UG/L - Micrograms per Liter

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

Location				MW-306			MW-307			
Sample ID				DOW-MW-306-042424	DOW-MW306-062624	DOW-MW-306-0924	DOW-MW-307-042424	DOW-GW-DUP1	DOW-MW307-062624	DOW-GW-DUP2 (FD)
Sampling Date				24-Apr-24	26-Jun-24	18-Sep-24	24-Apr-24	24-Apr-24	26-Jun-24	26-Jun-24
QC Identifier							DUPLICATE	DUPLICATE	DUPLICATE	DUPLICATE
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
VOC (UG/L)										
1,1,1,2-Tetrachloroethane	0.57	--	0.57	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,1-Trichloroethane	8000	200	200	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,2,2-Tetrachloroethane	0.076	--	0.076	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,2-Trichloro-1,2,2-trifluoroethane	10000	--	10000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1,2-Trichloroethane*	0.28	5	0.28	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1-Dichloroethane	2.8	--	2.8	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1-Dichloroethene	280	7	7	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2,3-Trichlorobenzene	7	--	7	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,2,3-Trichloropropane*	0.00075	--	0.00075	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2,4-Trichlorobenzene	1.2	70	1.2	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,2,4-Trimethylbenzene	56	--	56	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dibromo-3-chloropropane*	0.00033	0.2	0.00033	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dibromoethane (EDB)*	0.0075	0.05	0.0075	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichlorobenzene	300	600	300	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethane	0.17	5	0.17	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethene	--	--	--	1.00 U	0.500 U	0.500 U	1.00 U	1.00 U	0.500 U	0.500 U
1,2-Dichloropropane	0.85	5	0.85	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trichlorobenzene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trimethylbenzene	60	--	60	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3-Dichlorobenzene	--	--	--	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,3-Dichloropropane	370	--	370	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,4-Dichlorobenzene	0.48	75	0.48	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2,2-Dichloropropane	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Butanone (MEK)	5600	--	5600	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
2-Chloroethyl vinyl ether	--	--	--	NA	2.50 U	NA	NA	NA	2.50 U	2.50 U
2-Chlorotoluene	240	--	240	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Hexanone	38	--	38	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
4-Chlorotoluene	250	--	250	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
4-Methyl-2-pentanone (MIBK)	6300	--	6300	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Acetone	18000	--	18000	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzene*	0.46	5	0.46	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Bromobenzene	62	--	62	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromochloromethane	83	--	83	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromodichloromethane*	0.13	80	0.13	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

Location				MW-306			MW-307			
Sample ID				DOW-MW-306-042424	DOW-MW306-062624	DOW-MW-306-0924	DOW-MW-307-042424	DOW-GW-DUP1	DOW-MW307-062624	DOW-GW-DUP2 (FD)
Sampling Date				24-Apr-24	26-Jun-24	18-Sep-24	24-Apr-24	24-Apr-24	26-Jun-24	26-Jun-24
QC Identifier							DUPLICATE	DUPLICATE	DUPLICATE	DUPLICATE
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
Bromoform	3.3	80	3.3	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
VOC (UG/L)										
Bromomethane	7.5	--	7.5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Carbon disulfide	810	--	810	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Carbon Tetrachloride*	0.46	5	0.46	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chlorobenzene	78	100	78	**1.50**	**1.40**	**1.40**	0.500 U	0.500 U	0.500 U	0.500 U
Chloroethane	8300	--	8300	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Chloroform*	0.22	80	0.22	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Chloromethane	190	--	190	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
cis-1,2-Dichloroethene	36	70	36	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
cis-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Cumene	450	--	450	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Cyclohexane	13000	--	13000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Dibromochloromethane	0.87	80	0.87	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Dibromomethane	8.3	--	8.3	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dichlorodifluoromethane	200	--	200	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Diethyl ether (Ethyl ether)	3900	--	3900	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethyl methacrylate	630	--	630	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Ethylbenzene	1.5	700	1.5	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Hexachlorobutadiene*	0.14	--	0.14	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
m,p-Xylene	--	--	--	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Methyl acetate	20000	--	20000	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Methyl tert-butyl ether (MTBE)	14	--	14	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Methylcyclohexane	--	--	--	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Methylene chloride	11	5	5	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Naphthalene*	0.12	--	0.12	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
n-Butylbenzene	1000	--	1000	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
n-Propylbenzene	660	--	660	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
o-Xylene	190	--	190	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
p-Cymene (p-Isopropyltoluene)	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
sec-Butylbenzene	2000	--	2000	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Styrene	1200	100	100	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
tert-Butyl alcohol	150	--	150	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
tert-Butylbenzene	690	--	690	0.750 U	0.750 U	**0.380 J**	0.750 U	0.750 U	0.750 U	0.750 U
Tetrachloroethene (PCE)	11	5	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrahydrofuran	3400	--	3400	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

Location				MW-306			MW-307			
Sample ID				DOW-MW-306-042424	DOW-MW306-062624	DOW-MW-306-0924	DOW-MW-307-042424	DOW-GW-DUP1	DOW-MW307-062624	DOW-GW-DUP2 (FD)
Sampling Date				24-Apr-24	26-Jun-24	18-Sep-24	24-Apr-24	24-Apr-24	26-Jun-24	26-Jun-24
QC Identifier							DUPLICATE	DUPLICATE	DUPLICATE	DUPLICATE
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
Toluene	1100	1000	1000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Total, 1,3-Dichloropropene	0.47	--	0.47	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
VOC (UG/L)										
trans-1,2-Dichloroethene	68	100	68	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
trans-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Trichloroethene (TCE)*	0.49	5	0.49	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Trichlorofluoromethane	5200	--	5200	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Vinyl acetate	410	--	410	1.00 UJ	1.00 U	1.00 U	1.00 UJ	1.00 UJ	1.00 U	1.00 U
Vinyl chloride*	0.019	2	0.019	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Xylenes, Total	190	10000	190	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
SVOC (UG/L)										
2-Methylnaphthalene	36	--	36	0.190 U	0.210 U	0.200 U	0.200 U	0.220 U	0.220 U	0.200 U
Acenaphthene	530	--	530	0.140 U	0.160 U	0.150 U	0.150 U	0.170 U	0.160 U	0.150 U
Acenaphthylene	--	--	--	0.140 U	0.160 U	0.150 U	0.150 U	0.170 U	0.160 U	0.150 U
Anthracene	1800	--	1800	0.0950 U	0.100 U	0.0990 U	0.100 U	0.110 U	0.110 U	0.100 U
Benzo(a)anthracene*	0.03	--	0.03	0.0950 U	0.100 U	0.0990 U	0.100 U	0.110 U	0.110 U	0.100 U
Benzo(a)pyrene*	0.025	0.2	0.025	0.140 U	0.160 UJ	0.150 U	0.150 U	0.170 U	0.160 UJ	0.150 UJ
Benzo(b)fluoranthene	0.25	--	0.25	0.190 U	0.210 U	0.200 U	0.200 U	0.220 U	0.220 U	0.200 U
Benzo(g,h,i)perylene	--	--	--	0.140 U	0.160 UJ	0.150 U	0.150 U	0.170 U	0.160 UJ	0.150 UJ
Benzo(k)fluoranthene	2.5	--	2.5	0.0950 U	0.100 UJ	0.0990 U	0.100 U	0.110 U	0.110 UJ	0.100 UJ
Chrysene	25	--	25	0.0950 U	0.100 U	0.0990 U	0.100 U	0.110 U	0.110 U	0.100 U
Dibenz(a,h)anthracene*	0.025	--	0.025	0.140 U	0.160 UJ	0.150 U	0.150 U	0.170 U	0.160 UJ	0.150 UJ
Fluoranthene	800	--	800	0.140 U	0.160 U	0.150 U	0.150 U	0.170 U	0.160 U	0.150 U
Fluorene	290	--	290	0.140 U	0.160 U	0.150 U	0.150 U	0.170 U	0.160 U	0.150 U
Indeno(1,2,3-c,d)pyrene	0.25	--	0.25	0.140 U	0.160 UJ	0.150 U	0.150 U	0.170 U	0.160 UJ	0.150 UJ
Naphthalene*	0.12	--	0.12	0.140 U	0.160 U	0.150 U	0.150 U	0.170 U	0.160 U	0.150 U
Phenanthrene	--	--	--	0.140 U	0.160 U	0.150 U	0.150 U	0.170 U	0.160 U	0.150 U
Pyrene	120	--	120	0.190 U	0.210 U	0.200 U	0.200 U	0.220 U	0.220 U	0.200 U
METALS (UG/L)										
Aluminum	20000	--	20000	**92.0 J**	**89.0 J**	40.0 U	**76.0 J**	**73.0 J**	**24.0 J**	**27.0 J**
Antimony	7.8	6	6	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Arsenic*	0.052	10	0.052	**25.8**	**25.5**	**26.6**	4.00 U	4.00 U	4.00 U	4.00 U
Barium	3800	2000	2000	**19.1**	**18.6**	**19.4**	**10.7**	**9.20**	**9.06**	**7.93**
Beryllium	25	4	4	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Cadmium	1.8	5	1.8	0.200 U	0.200 U	0.200 U	**0.190 J**	0.200 U	0.200 U	0.200 U
Calcium	--	--	--	**92600**	**95500**	**88900**	**93900**	**93900**	**94200**	**97300**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

Location				MW-306			MW-307			
Sample ID				DOW-MW-306-042424	DOW-MW306-062624	DOW-MW-306-0924	DOW-MW-307-042424	DOW-GW-DUP1	DOW-MW307-062624	DOW-GW-DUP2 (FD)
Sampling Date				24-Apr-24	26-Jun-24	18-Sep-24	24-Apr-24	24-Apr-24	26-Jun-24	26-Jun-24
QC Identifier							DUPLICATE	DUPLICATE	DUPLICATE	DUPLICATE
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
Chromium	--	100	100	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Cobalt	6	--	6	**2.72**	**3.02**	**2.46**	**1.00**	**0.780 J**	**0.680 J**	**0.720 J**
Copper	800	1300	800	**2.80 J**	2.00 U	**0.620 J**	**1.40 J**	**1.20 J**	2.00 U	2.00 U
METALS (UG/L)										
Iron	14000	--	14000	**3300**	**3220**	**3080**	**200**	**200**	**180**	**190**
Lead	15	15	15	0.500 U	0.500 U	**0.150 J**	0.500 U	0.500 U	0.500 U	0.500 U
Magnesium	--	--	--	**19000**	**18700**	**17900**	**19400**	**19700**	**19100**	**19900**
Manganese	430	--	430	**3390**	**3370**	**3260**	**1330**	**1310**	**1300**	**1330**
Nickel	390	--	390	**2.00**	**2.20**	**22.0**	**1.00 J**	**0.900 J**	1.20 U	1.20 U
Potassium	--	--	--	**1700**	**1700**	**1670**	**3670**	**3440**	**2940**	**3120**
Selenium	100	50	50	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Silver	94	--	94	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Sodium	--	--	--	**16000**	**16600**	**15300**	**15500**	**15600**	**15500**	**16200**
Thallium*	0.2	2	0.2	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Vanadium	86	--	86	4.00 U	4.00 U	**1.50 J**	4.00 U	4.00 U	4.00 U	4.00 U
Zinc	6000	--	6000	8.00 U	8.00 U	**118**	8.00 U	8.00 U	8.00 U	8.00 U
METAL (Diss) (UG/L)										
Aluminum, Dissolved	20000	--	20000	**27.0 J**	40.0 U	40.0 U	40.0 U	40.0 U	40.0 U	40.0 U
Antimony, Dissolved	7.8	6	6	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Arsenic, Dissolved*	0.052	10	0.052	**24.0**	**25.9**	**25.9**	4.00 U	4.00 U	4.00 U	4.00 U
Barium, Dissolved	3800	2000	2000	**18.4**	**18.6**	**19.0**	**9.25**	**8.83**	**8.18**	**8.08**
Beryllium, Dissolved	25	4	4	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Cadmium, Dissolved	1.8	5	1.8	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Calcium, Dissolved	--	--	--	**92600**	**95000**	**91800**	**94600**	**91400**	**94200**	**94700**
Chromium, Dissolved	--	100	100	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Cobalt, Dissolved	6	--	6	**2.70**	**3.02**	**2.48**	**0.840 J**	**0.730 J**	**0.680 J**	**0.680 J**
Copper, Dissolved	800	1300	800	2.00 U	2.00 U	**0.640 J**	**1.70 J**	2.00 U	2.00 U	2.00 U
Iron, Dissolved	14000	--	14000	**2970**	**3090 J**	**2870**	**110**	**100**	**150**	**160**
Lead, Dissolved	15	15	15	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Magnesium, Dissolved	--	--	--	**18800**	**18700**	**17000**	**19800**	**19200**	**19000**	**19300**
Manganese, Dissolved	430	--	430	**3380**	**3380**	**3200**	**1280**	**1250**	**1240**	**1280**
Nickel, Dissolved	390	--	390	**2.00**	**1.30 J**	**2.36**	**1.30 J**	**0.760 J**	1.20 U	1.20 U
Potassium, Dissolved	--	--	--	**1700**	**1700**	**1560**	**3450**	**3520**	**2860**	**2940**
Selenium, Dissolved	100	50	50	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Silver, Dissolved	94	--	94	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Sodium, Dissolved	--	--	--	**16300**	**16700**	**15500**	**16000**	**15600**	**15600**	**15800**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-306			MW-307			
			Sample ID	DOW-MW-306-042424	DOW-MW306-062624	DOW-MW-306-0924	DOW-MW-307-042424	DOW-GW-DUP1	DOW-MW307-062624	DOW-GW-DUP2 (FD)
			Sampling Date	24-Apr-24	26-Jun-24	18-Sep-24	24-Apr-24	24-Apr-24	26-Jun-24	26-Jun-24
			QC Identifier				DUPLICATE	DUPLICATE	DUPLICATE	DUPLICATE
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
Thallium, Dissolved*	0.2	2	0.2	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Vanadium, Dissolved	86	--	86	4.00 U	4.00 U	**0.930 J**	4.00 U	4.00 U	4.00 U	4.00 U
Zinc, Dissolved	6000	--	6000	8.00 U	8.00 U	8.00 U	8.00 U	8.00 U	8.00 U	8.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-306			MW-307			
			Sample ID	DOW-MW-306-042424	DOW-MW306-062624	DOW-MW-306-0924	DOW-MW-307-042424	DOW-GW-DUP1	DOW-MW307-062624	DOW-GW-DUP2 (FD)
			Sampling Date	24-Apr-24	26-Jun-24	18-Sep-24	24-Apr-24	24-Apr-24	26-Jun-24	26-Jun-24
			QC Identifier				DUPLICATE	DUPLICATE	DUPLICATE	DUPLICATE
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
CR (Diss) (UG/L)										
Hexavalent Chromium, Dissolved	0.035	--	0.035	NA	0.0150 UJ	0.0150 UJ	NA	NA	0.0150 UJ	0.0150 UJ
HG (UG/L)										
Mercury	0.63	2	0.63	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
HG (Diss) (UG/L)										
Mercury, Dissolved	0.63	2	0.63	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U

Notes:

Bold = detected

Shaded = detected above the screening level (SL)

SLs are the lowest of:

May 2022 EPA RSLs Tap Water

2022 EPA Maximum Contaminant Levels (MCLs)

*Screening Level is below the Laboratory Limits

-- - No SL available

J - Estimated Value

U - Undetected: The analyte was analyzed for, but not detected.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in r
specific quality control criteria.

UG/L - Micrograms per Liter

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

Location					MW-308R			MW-309		
Sample ID				DOW-MW-307-0924	DOW-MW-308R-042324	DOW-MW308R-062524	DOW-MW-308R-0924	DOW-MW-309-042324	DOW-MW309-062524	DOW-MW-309-0924
Sampling Date				18-Sep-24	23-Apr-24	25-Jun-24	17-Sep-24	23-Apr-24	25-Jun-24	17-Sep-24
QC Identifier										
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
VOC (UG/L)										
1,1,1,2-Tetrachloroethane	0.57	--	0.57	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,1-Trichloroethane	8000	200	200	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,2,2-Tetrachloroethane	0.076	--	0.076	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,2-Trichloro-1,2,2-trifluoroethane	10000	--	10000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1,2-Trichloroethane*	0.28	5	0.28	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1-Dichloroethane	2.8	--	2.8	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1-Dichloroethene	280	7	7	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2,3-Trichlorobenzene	7	--	7	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,2,3-Trichloropropane*	0.00075	--	0.00075	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2,4-Trichlorobenzene	1.2	70	1.2	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,2,4-Trimethylbenzene	56	--	56	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dibromo-3-chloropropane*	0.00033	0.2	0.00033	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dibromoethane (EDB)*	0.0075	0.05	0.0075	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichlorobenzene	300	600	300	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethane	0.17	5	0.17	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethene	--	--	--	0.500 U	1.00 U	0.500 U	0.500 U	**0.600 J**	**0.400 J**	**0.300 J**
1,2-Dichloropropane	0.85	5	0.85	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trichlorobenzene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trimethylbenzene	60	--	60	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3-Dichlorobenzene	--	--	--	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,3-Dichloropropane	370	--	370	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,4-Dichlorobenzene	0.48	75	0.48	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2,2-Dichloropropane	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Butanone (MEK)	5600	--	5600	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
2-Chloroethyl vinyl ether	--	--	--	NA	NA	2.50 U	NA	NA	2.50 U	NA
2-Chlorotoluene	240	--	240	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Hexanone	38	--	38	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
4-Chlorotoluene	250	--	250	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
4-Methyl-2-pentanone (MIBK)	6300	--	6300	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Acetone	18000	--	18000	5.00 U	**7.00 J**	**4.60 J**	**3.30 J**	5.00 U	5.00 U	**4.70 J**
Benzene*	0.46	5	0.46	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Bromobenzene	62	--	62	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromochloromethane	83	--	83	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromodichloromethane*	0.13	80	0.13	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

Location					MW-308R			MW-309		
Sample ID				DOW-MW-307-0924	DOW-MW-308R-042324	DOW-MW308R-062524	DOW-MW-308R-0924	DOW-MW-309-042324	DOW-MW309-062524	DOW-MW-309-0924
Sampling Date				18-Sep-24	23-Apr-24	25-Jun-24	17-Sep-24	23-Apr-24	25-Jun-24	17-Sep-24
QC Identifier										
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
Bromoform	3.3	80	3.3	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
VOC (UG/L)										
Bromomethane	7.5	--	7.5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Carbon disulfide	810	--	810	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Carbon Tetrachloride*	0.46	5	0.46	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chlorobenzene	78	100	78	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chloroethane	8300	--	8300	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Chloroform*	0.22	80	0.22	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Chloromethane	190	--	190	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
cis-1,2-Dichloroethene	36	70	36	0.500 U	0.500 U	0.500 U	0.500 U	**0.600 J**	**0.400 J**	**0.300 J**
cis-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Cumene	450	--	450	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Cyclohexane	13000	--	13000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Dibromochloromethane	0.87	80	0.87	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Dibromomethane	8.3	--	8.3	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dichlorodifluoromethane	200	--	200	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Diethyl ether (Ethyl ether)	3900	--	3900	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethyl methacrylate	630	--	630	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Ethylbenzene	1.5	700	1.5	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Hexachlorobutadiene*	0.14	--	0.14	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
m,p-Xylene	--	--	--	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Methyl acetate	20000	--	20000	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	**4.80**
Methyl tert-butyl ether (MTBE)	14	--	14	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Methylcyclohexane	--	--	--	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Methylene chloride	11	5	5	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Naphthalene*	0.12	--	0.12	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
n-Butylbenzene	1000	--	1000	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
n-Propylbenzene	660	--	660	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
o-Xylene	190	--	190	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
p-Cymene (p-Isopropyltoluene)	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
sec-Butylbenzene	2000	--	2000	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Styrene	1200	100	100	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
tert-Butyl alcohol	150	--	150	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
tert-Butylbenzene	690	--	690	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Tetrachloroethene (PCE)	11	5	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrahydrofuran	3400	--	3400	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

Location					MW-308R			MW-309		
Sample ID				DOW-MW-307-0924	DOW-MW-308R-042324	DOW-MW308R-062524	DOW-MW-308R-0924	DOW-MW-309-042324	DOW-MW309-062524	DOW-MW-309-0924
Sampling Date				18-Sep-24	23-Apr-24	25-Jun-24	17-Sep-24	23-Apr-24	25-Jun-24	17-Sep-24
QC Identifier										
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
Toluene	1100	1000	1000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Total, 1,3-Dichloropropene	0.47	--	0.47	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
VOC (UG/L)										
trans-1,2-Dichloroethene	68	100	68	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
trans-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Trichloroethene (TCE)*	0.49	5	0.49	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Trichlorofluoromethane	5200	--	5200	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Vinyl acetate	410	--	410	1.00 U	1.00 UJ	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U
Vinyl chloride*	0.019	2	0.019	1.00 U	1.00 U	1.00 U	1.00 U	**1.90 J**	**1.30 J**	**0.690 J**
Xylenes, Total	190	10000	190	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
SVOC (UG/L)										
2-Methylnaphthalene	36	--	36	0.210 U	0.190 U	0.210 U	0.200 U	0.190 U	0.220 U	0.190 U
Acenaphthene	530	--	530	0.160 U	0.140 U	0.160 U	0.150 U	0.140 U	0.160 U	0.140 U
Acenaphthylene	--	--	--	0.160 U	0.140 U	0.160 U	0.150 U	0.140 U	0.160 U	0.140 U
Anthracene	1800	--	1800	0.110 U	0.0950 U	0.100 U	0.0990 U	0.0970 U	0.110 U	0.0960 UJ
Benzo(a)anthracene*	0.03	--	0.03	0.110 U	0.0950 U	0.100 U	0.0990 U	0.0970 U	0.110 U	0.0960 UJ
Benzo(a)pyrene*	0.025	0.2	0.025	0.160 U	0.140 U	0.160 UJ	0.150 U	0.140 U	0.160 UJ	0.140 UJ
Benzo(b)fluoranthene	0.25	--	0.25	0.210 U	0.190 U	0.210 UJ	0.200 U	0.190 U	0.220 UJ	0.190 UJ
Benzo(g,h,i)perylene	--	--	--	0.160 U	0.140 U	0.160 UJ	0.150 U	0.140 U	0.160 UJ	0.140 UJ
Benzo(k)fluoranthene	2.5	--	2.5	0.110 U	0.0950 U	0.100 UJ	0.0990 U	0.0970 U	0.110 UJ	0.0960 UJ
Chrysene	25	--	25	0.110 U	0.0950 U	0.100 UJ	0.0990 U	0.0970 U	0.110 UJ	0.0960 UJ
Dibenz(a,h)anthracene*	0.025	--	0.025	0.160 U	0.140 U	0.160 UJ	0.150 U	0.140 U	0.160 UJ	0.140 UJ
Fluoranthene	800	--	800	0.160 U	0.140 U	0.160 U	0.150 U	0.140 U	0.160 U	0.140 UJ
Fluorene	290	--	290	0.160 U	0.140 U	0.160 U	0.150 U	0.140 U	0.160 U	0.140 U
Indeno(1,2,3-c,d)pyrene	0.25	--	0.25	0.160 U	0.140 U	0.160 UJ	0.150 U	0.140 U	0.160 UJ	0.140 UJ
Naphthalene*	0.12	--	0.12	0.160 U	0.140 U	0.160 U	0.150 U	0.140 U	0.160 U	0.140 U
Phenanthrene	--	--	--	0.160 U	0.140 U	0.160 U	0.150 U	0.140 U	0.160 U	0.140 UJ
Pyrene	120	--	120	0.210 U	0.190 U	0.210 U	0.200 U	0.190 U	0.220 U	0.190 UJ
METALS (UG/L)										
Aluminum	20000	--	20000	40.0 U	**444**	**160**	**96.6 J**	**306**	**408**	**190**
Antimony	7.8	6	6	0.500 U	**1.00**	0.500 U	**0.210 J**	**0.310 J**	**0.280 J**	**0.240 J**
Arsenic*	0.052	10	0.052	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	**3.80 J**
Barium	3800	2000	2000	**7.86**	**24.0**	**21.6**	**20.3**	**13.7**	**11.1**	**3.78**
Beryllium	25	4	4	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Cadmium	1.8	5	1.8	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Calcium	--	--	--	**92400**	**24200**	**23600**	**21700**	**55800**	**46700**	**22300**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

Location					MW-308R				MW-309		
Sample ID				DOW-MW-307-0924	DOW-MW-308R-042324	DOW-MW308R-062524	DOW-MW-308R-0924	DOW-MW-309-042324	DOW-MW309-062524	DOW-MW-309-0924
Sampling Date				18-Sep-24	23-Apr-24	25-Jun-24	17-Sep-24	23-Apr-24	25-Jun-24	17-Sep-24
QC Identifier										
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
Chromium	--	100	100	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Cobalt	6	--	6	**0.649 J**	**0.460 J**	**0.240 J**	**0.220 J**	**0.680 J**	**0.440 J**	**0.160 J**
Copper	800	1300	800	**0.730 J**	**1.90 J**	2.00 U	2.00 U	2.00 U	**1.10 J**	2.00 U
METALS (UG/L)										
Iron	14000	--	14000	**162**	**564**	**398**	**306**	**402**	**560**	**57.0 J**
Lead	15	15	15	0.500 U	**0.280 J**	0.500 U	0.500 U	0.500 U	**0.360 J**	0.500 U
Magnesium	--	--	--	**18200**	**5840**	**6250**	**5580**	**12200**	**9820**	**5700**
Manganese	430	--	430	**1040**	**458**	**1080**	**954**	**1150**	**902**	**144**
Nickel	390	--	390	**2.74**	**0.980 J**	1.20 U	1.20 U	**0.910 J**	1.20 U	1.20 U
Potassium	--	--	--	**4180**	**6230**	**5080**	**4970**	**2460**	**2450**	**4050**
Selenium	100	50	50	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Silver	94	--	94	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Sodium	--	--	--	**15800**	**14600**	**14000**	**12700**	**10600**	**17700**	**19100**
Thallium*	0.2	2	0.2	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Vanadium	86	--	86	**1.00 J**	4.00 U	4.00 U	**0.910 J**	4.00 U	4.00 U	**3.50 J**
Zinc	6000	--	6000	**120**	8.00 U	**4.10 J**	8.00 U	8.00 U	8.00 U	8.00 U
METAL (Diss) (UG/L)										
Aluminum, Dissolved	20000	--	20000	40.0 U	**51.0 J**	**37.0 J**	40.0 U	**21.0 J**	**120**	**188**
Antimony, Dissolved	7.8	6	6	0.500 U	**0.960 J**	0.500 U	**0.170 J**	**0.270 J**	**0.400 J**	**0.260 J**
Arsenic, Dissolved*	0.052	10	0.052	4.00 U	4.00 U	**2.80 J**	4.00 U	4.00 U	**2.80 J**	**4.30 J**
Barium, Dissolved	3800	2000	2000	**7.40**	**20.8**	**27.9**	**18.3**	**11.4**	**8.81**	**3.46**
Beryllium, Dissolved	25	4	4	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Cadmium, Dissolved	1.8	5	1.8	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Calcium, Dissolved	--	--	--	**89900**	**24800**	**32400**	**21800**	**56200**	**32000**	**21100**
Chromium, Dissolved	--	100	100	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Cobalt, Dissolved	6	--	6	**0.678 J**	0.300 U	0.300 U	0.300 U	**0.490 J**	0.300 U	0.300 U
Copper, Dissolved	800	1300	800	**0.730 J**	2.00 U	2.00 U	**2.83 J**	2.00 U	2.00 U	**0.470 J**
Iron, Dissolved	14000	--	14000	**145**	**50.0 J**	**230**	**137**	60.0 U	**91.0 J**	60.0 U
Lead, Dissolved	15	15	15	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Magnesium, Dissolved	--	--	--	**19600**	**5910**	**8650**	**5850**	**11900**	**7450**	**5710**
Manganese, Dissolved	430	--	430	**1030**	**451**	**1460**	**933**	**1100**	**1320**	**147**
Nickel, Dissolved	390	--	390	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U
Potassium, Dissolved	--	--	--	**4250**	**6270**	**6860**	**4970**	**2400**	**3760**	**3880**
Selenium, Dissolved	100	50	50	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Silver, Dissolved	94	--	94	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Sodium, Dissolved	--	--	--	**23500**	**15000**	**19600**	**13600**	**10500**	**43200**	**21700**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location		MW-308R			MW-309		
			Sample ID	DOW-MW-307-0924	DOW-MW-308R-042324	DOW-MW308R-062524	DOW-MW-308R-0924	DOW-MW-309-042324	DOW-MW309-062524	DOW-MW-309-0924
			Sampling Date	18-Sep-24	23-Apr-24	25-Jun-24	17-Sep-24	23-Apr-24	25-Jun-24	17-Sep-24
			QC Identifier							
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
Thallium, Dissolved*	0.2	2	0.2	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Vanadium, Dissolved	86	--	86	**0.960 J**	4.00 U	4.00 U	4.00 U	4.00 U	**3.00 J**	4.00 U
Zinc, Dissolved	6000	--	6000	8.00 U	8.00 U	**9.90 J**	8.00 U	8.00 U	**5.60 J**	8.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location		MW-308R			MW-309		
			Sample ID	DOW-MW-307-0924	DOW-MW-308R-042324	DOW-MW308R-062524	DOW-MW-308R-0924	DOW-MW-309-042324	DOW-MW309-062524	DOW-MW-309-0924
			Sampling Date	18-Sep-24	23-Apr-24	25-Jun-24	17-Sep-24	23-Apr-24	25-Jun-24	17-Sep-24
			QC Identifier							
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs							
CR (Diss) (UG/L)										
Hexavalent Chromium, Dissolved	0.035	--	0.035	0.0150 UJ	NA	0.0150 UJ	0.0150 UJ	NA	**0.158 J**	**0.147 J**
HG (UG/L)										
Mercury	0.63	2	0.63	0.100 U	0.100 U	**0.0580 J**	0.100 U	0.100 U	0.100 U	0.100 U
HG (Diss) (UG/L)										
Mercury, Dissolved	0.63	2	0.63	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	**0.110 J**	0.100 U

Notes:

Bold = detected

Shaded = detected above the screening level (SL)

SLs are the lowest of:

May 2022 EPA RSLs Tap Water

2022 EPA Maximum Contaminant Levels (MCLs)

*Screening Level is below the Laboratory Limits

-- - No SL available

J - Estimated Value

U - Undetected: The analyte was analyzed for, but not detected.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in r
specific quality control criteria.

UG/L - Micrograms per Liter

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-310			MW-311		
			Sample ID	DOW-MW-310-042324	DOW-MW-310-0924	DOW-MW310-062524	DOW-MW-311-042224	DOW-MW311-062624	DOW-MW-311-0924
			Sampling Date	23-Apr-24	17-Sep-24	25-Jun-24	22-Apr-24	26-Jun-24	18-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
VOC (UG/L)									
1,1,1,2-Tetrachloroethane	0.57	--	0.57	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,1-Trichloroethane	8000	200	200	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,2,2-Tetrachloroethane	0.076	--	0.076	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,2-Trichloro-1,2,2-trifluoroethane	10000	--	10000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1,2-Trichloroethane*	0.28	5	0.28	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1-Dichloroethane	2.8	--	2.8	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1-Dichloroethene	280	7	7	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,1-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2,3-Trichlorobenzene	7	--	7	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,2,3-Trichloropropane*	0.00075	--	0.00075	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2,4-Trichlorobenzene	1.2	70	1.2	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,2,4-Trimethylbenzene	56	--	56	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dibromo-3-chloropropane*	0.00033	0.2	0.00033	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dibromoethane (EDB)*	0.0075	0.05	0.0075	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichlorobenzene	300	600	300	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethane	0.17	5	0.17	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethene	--	--	--	1.00 U	0.500 U	0.500 U	**0.940 J**	**0.820 J**	**1.10**
1,2-Dichloropropane	0.85	5	0.85	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trichlorobenzene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trimethylbenzene	60	--	60	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3-Dichlorobenzene	--	--	--	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
1,3-Dichloropropane	370	--	370	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,4-Dichlorobenzene	0.48	75	0.48	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2,2-Dichloropropane	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Butanone (MEK)	5600	--	5600	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
2-Chloroethyl vinyl ether	--	--	--	NA	NA	2.50 U	NA	2.50 U	NA
2-Chlorotoluene	240	--	240	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Hexanone	38	--	38	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
4-Chlorotoluene	250	--	250	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
4-Methyl-2-pentanone (MIBK)	6300	--	6300	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Acetone	18000	--	18000	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzene*	0.46	5	0.46	0.750 U	0.750 U	0.750 U	**0.390 J**	0.750 U	**0.380 J**
Bromobenzene	62	--	62	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromochloromethane	83	--	83	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromodichloromethane*	0.13	80	0.13	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-310			MW-311		
			Sample ID	DOW-MW-310-042324	DOW-MW-310-0924	DOW-MW310-062524	DOW-MW-311-042224	DOW-MW311-062624	DOW-MW-311-0924
			Sampling Date	23-Apr-24	17-Sep-24	25-Jun-24	22-Apr-24	26-Jun-24	18-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Bromoform	3.3	80	3.3	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
VOC (UG/L)									
Bromomethane	7.5	--	7.5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Carbon disulfide	810	--	810	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Carbon Tetrachloride*	0.46	5	0.46	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chlorobenzene	78	100	78	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chloroethane	8300	--	8300	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Chloroform*	0.22	80	0.22	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Chloromethane	190	--	190	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
cis-1,2-Dichloroethene	36	70	36	0.500 U	0.500 U	0.500 U	**0.940 J**	**0.820 J**	**1.10**
cis-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Cumene	450	--	450	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Cyclohexane	13000	--	13000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Dibromochloromethane	0.87	80	0.87	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Dibromomethane	8.3	--	8.3	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dichlorodifluoromethane	200	--	200	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Diethyl ether (Ethyl ether)	3900	--	3900	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethyl methacrylate	630	--	630	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Ethylbenzene	1.5	700	1.5	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Hexachlorobutadiene*	0.14	--	0.14	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
m,p-Xylene	--	--	--	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Methyl acetate	20000	--	20000	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Methyl tert-butyl ether (MTBE)	14	--	14	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Methylcyclohexane	--	--	--	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Methylene chloride	11	5	5	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Naphthalene*	0.12	--	0.12	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
n-Butylbenzene	1000	--	1000	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
n-Propylbenzene	660	--	660	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
o-Xylene	190	--	190	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
p-Cymene (p-Isopropyltoluene)	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
sec-Butylbenzene	2000	--	2000	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Styrene	1200	100	100	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
tert-Butyl alcohol	150	--	150	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
tert-Butylbenzene	690	--	690	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Tetrachloroethene (PCE)	11	5	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrahydrofuran	3400	--	3400	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-310			MW-311		
			Sample ID	DOW-MW-310-042324	DOW-MW-310-0924	DOW-MW310-062524	DOW-MW-311-042224	DOW-MW311-062624	DOW-MW-311-0924
			Sampling Date	23-Apr-24	17-Sep-24	25-Jun-24	22-Apr-24	26-Jun-24	18-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Toluene	1100	1000	1000	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U	0.750 U
Total, 1,3-Dichloropropene	0.47	--	0.47	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
VOC (UG/L)									
trans-1,2-Dichloroethene	68	100	68	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
trans-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Trichloroethene (TCE)*	0.49	5	0.49	0.750 U	0.750 U	0.750 U	0.750 U	**0.490 J**	**0.550 J**
Trichlorofluoromethane	5200	--	5200	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Vinyl acetate	410	--	410	1.00 UJ	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U
Vinyl chloride*	0.019	2	0.019	1.00 U	1.00 U	1.00 U	**2.00 J**	**1.70 J**	**1.40 J**
Xylenes, Total	190	10000	190	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
SVOC (UG/L)									
2-Methylnaphthalene	36	--	36	0.200 U	0.200 U	0.220 U	0.210 U	0.210 UJ	0.210 UJ
Acenaphthene	530	--	530	0.150 U	0.150 U	0.160 U	0.160 U	0.150 UJ	0.150 UJ
Acenaphthylene	--	--	--	0.150 U	0.150 U	0.160 U	0.160 U	0.150 UJ	0.150 UJ
Anthracene	1800	--	1800	0.100 U	0.100 U	0.110 UJ	0.100 U	0.100 UJ	0.100 UJ
Benzo(a)anthracene*	0.03	--	0.03	0.100 U	0.100 U	0.110 UJ	0.100 U	0.100 UJ	0.100 UJ
Benzo(a)pyrene*	0.025	0.2	0.025	0.150 U	0.150 U	0.160 UJ	0.160 U	0.150 UJ	0.150 UJ
Benzo(b)fluoranthene	0.25	--	0.25	0.200 U	0.200 U	0.220 UJ	0.210 U	0.210 UJ	0.210 UJ
Benzo(g,h,i)perylene	--	--	--	0.150 U	0.150 U	0.160 UJ	0.160 U	0.150 UJ	0.150 UJ
Benzo(k)fluoranthene	2.5	--	2.5	0.100 U	0.100 U	0.110 UJ	0.100 U	0.100 UJ	0.100 UJ
Chrysene	25	--	25	0.100 U	0.100 U	0.110 UJ	0.100 U	0.100 UJ	0.100 UJ
Dibenz(a,h)anthracene*	0.025	--	0.025	0.150 U	0.150 U	0.160 UJ	0.160 U	0.150 UJ	0.150 UJ
Fluoranthene	800	--	800	0.150 U	0.150 U	0.160 UJ	0.160 U	0.150 UJ	0.150 UJ
Fluorene	290	--	290	0.150 U	0.150 U	0.160 U	0.160 U	0.150 UJ	0.150 UJ
Indeno(1,2,3-c,d)pyrene	0.25	--	0.25	0.150 U	0.150 U	0.160 UJ	0.160 U	0.150 UJ	0.150 UJ
Naphthalene*	0.12	--	0.12	0.150 U	0.150 U	0.160 U	0.160 U	0.150 UJ	0.150 UJ
Phenanthrene	--	--	--	0.150 U	0.150 U	0.160 UJ	0.160 U	0.150 UJ	0.150 UJ
Pyrene	120	--	120	0.200 U	0.200 U	0.220 UJ	0.210 U	0.210 UJ	0.210 UJ
METALS (UG/L)									
Aluminum	20000	--	20000	**1290**	**129**	**190**	**77.0 J**	**110**	40.0 U
Antimony	7.8	6	6	0.500 U	**0.0580 J**	0.500 U	0.500 U	0.500 U	0.500 U
Arsenic*	0.052	10	0.052	4.00 U	4.00 U	4.00 U	**18.0**	**21.0**	**22.0**
Barium	3800	2000	2000	**10.3**	**6.44**	**6.89**	**21.9**	**23.6**	**23.8**
Beryllium	25	4	4	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Cadmium	1.8	5	1.8	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Calcium	--	--	--	**29300**	**25400**	**27800**	**85600**	**91200**	**83800**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-310			MW-311		
			Sample ID	DOW-MW-310-042324	DOW-MW-310-0924	DOW-MW310-062524	DOW-MW-311-042224	DOW-MW311-062624	DOW-MW-311-0924
			Sampling Date	23-Apr-24	17-Sep-24	25-Jun-24	22-Apr-24	26-Jun-24	18-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Chromium	--	100	100	**3.70 J**	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Cobalt	6	--	6	**1.10**	**0.280 J**	**0.340 J**	**0.700 J**	**0.680 J**	**0.570 J**
Copper	800	1300	800	**6.00**	2.00 U	2.00 U	**1.90 J**	2.00 U	**0.420 J**
METALS (UG/L)									
Iron	14000	--	14000	**2070**	**318**	**381**	**1840**	**1920**	**1600**
Lead	15	15	15	**1.30**	0.500 U	**0.320 J**	0.500 U	0.500 U	0.500 U
Magnesium	--	--	--	**11000**	**9580**	**10300**	**18800**	**19400**	**17700**
Manganese	430	--	430	**450**	**529**	**346**	**2010**	**2100**	**1930**
Nickel	390	--	390	**2.90**	1.20 U	1.20 U	**1.10 J**	1.20 U	1.20 U
Potassium	--	--	--	**2770**	**3490**	**2790**	**1600**	**1700**	**1680**
Selenium	100	50	50	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Silver	94	--	94	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Sodium	--	--	--	**12200**	**12300**	**11900**	**13700**	**15000**	**14100**
Thallium*	0.2	2	0.2	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Vanadium	86	--	86	**2.20 J**	**0.950 J**	4.00 U	4.00 U	4.00 U	**0.960 J**
Zinc	6000	--	6000	**5.20 J**	8.00 U	8.00 U	8.00 U	8.00 U	8.00 U
METAL (Diss) (UG/L)									
Aluminum, Dissolved	20000	--	20000	**130**	40.0 U	**46.0 J**	40.0 U	40.0 U	40.0 U
Antimony, Dissolved	7.8	6	6	0.500 U	0.500 U	**0.620 J**	0.500 U	0.500 U	0.500 U
Arsenic, Dissolved*	0.052	10	0.052	4.00 U	4.00 U	4.00 U	**17.0**	**21.0**	**23.3**
Barium, Dissolved	3800	2000	2000	**4.80**	**5.29**	**5.36**	**20.8**	**23.1**	**25.1**
Beryllium, Dissolved	25	4	4	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Cadmium, Dissolved	1.8	5	1.8	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Calcium, Dissolved	--	--	--	**29100**	**24800**	**21600**	**83600**	**94600**	**86400**
Chromium, Dissolved	--	100	100	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Cobalt, Dissolved	6	--	6	**0.320 J**	0.300 U	0.300 U	**0.670 J**	**0.800 J**	**0.628 J**
Copper, Dissolved	800	1300	800	2.00 U	**0.310 J**	2.00 U	**1.40 J**	**1.40 J**	**1.40 J**
Iron, Dissolved	14000	--	14000	**270**	**66.0 J**	**85.0 J**	**1590**	**1880**	**1630**
Lead, Dissolved	15	15	15	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Magnesium, Dissolved	--	--	--	**10800**	**9790**	**10400**	**18800**	**20000**	**18800**
Manganese, Dissolved	430	--	430	**390**	**495**	**394**	**1980**	**2170**	**2050**
Nickel, Dissolved	390	--	390	**0.640 J**	1.20 U	1.20 U	**1.10 J**	**0.680 J**	1.20 U
Potassium, Dissolved	--	--	--	**2490**	**3410**	**8080**	**1600**	**1800**	**1780**
Selenium, Dissolved	100	50	50	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Silver, Dissolved	94	--	94	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Sodium, Dissolved	--	--	--	**12400**	**12800**	**21400**	**13700**	**15700**	**14200**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-310			MW-311		
			Sample ID	DOW-MW-310-042324	DOW-MW-310-0924	DOW-MW310-062524	DOW-MW-311-042224	DOW-MW311-062624	DOW-MW-311-0924
			Sampling Date	23-Apr-24	17-Sep-24	25-Jun-24	22-Apr-24	26-Jun-24	18-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
Thallium, Dissolved*	0.2	2	0.2	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Vanadium, Dissolved	86	--	86	4.00 U	4.00 U	**3.80 J**	4.00 U	4.00 U	**0.840 J**
Zinc, Dissolved	6000	--	6000	8.00 U	**4.30 J**	8.00 U	8.00 U	8.00 U	8.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-310			MW-311		
			Sample ID	DOW-MW-310-042324	DOW-MW-310-0924	DOW-MW310-062524	DOW-MW-311-042224	DOW-MW311-062624	DOW-MW-311-0924
			Sampling Date	23-Apr-24	17-Sep-24	25-Jun-24	22-Apr-24	26-Jun-24	18-Sep-24
			QC Identifier						
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs						
CR (Diss) (UG/L)									
Hexavalent Chromium, Dissolved	0.035	--	0.035	NA	0.0150 UJ	0.0150 U	NA	0.0150 UJ	0.0150 UJ
HG (UG/L)									
Mercury	0.63	2	0.63	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
HG (Diss) (UG/L)									
Mercury, Dissolved	0.63	2	0.63	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U

Notes:

Bold = detected

Shaded = detected above the screening level (SL)

SLs are the lowest of:

May 2022 EPA RSLs Tap Water

2022 EPA Maximum Contaminant Levels (MCLs)

*Screening Level is below the Laboratory Limits

-- - No SL available

J - Estimated Value

U - Undetected: The analyte was analyzed for, but not detected.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in r
specific quality control criteria.

UG/L - Micrograms per Liter

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-312R		
			Sample ID	DOW-MW-312R-042324	DOW-MW312R-062524	DOW-MW-312R-0924
			Sampling Date	23-Apr-24	25-Jun-24	17-Sep-24
			QC Identifier			
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs			
VOC (UG/L)						
1,1,1,2-Tetrachloroethane	0.57	--	0.57	0.500 U	0.500 U	0.500 U
1,1,1-Trichloroethane	8000	200	200	0.500 U	0.500 U	0.500 U
1,1,2,2-Tetrachloroethane	0.076	--	0.076	1.00 U	1.00 U	1.00 U
1,1,2-Trichloro-1,2,2-trifluoroethane	10000	--	10000	0.750 U	0.750 U	0.750 U
1,1,2-Trichloroethane*	0.28	5	0.28	0.750 U	0.750 U	0.750 U
1,1-Dichloroethane	2.8	--	2.8	0.500 U	0.500 U	0.500 U
1,1-Dichloroethene	280	7	7	0.750 U	0.750 U	0.750 U
1,1-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U
1,2,3-Trichlorobenzene	7	--	7	0.750 U	0.750 U	0.750 U
1,2,3-Trichloropropane*	0.00075	--	0.00075	0.500 U	0.500 U	0.500 U
1,2,4-Trichlorobenzene	1.2	70	1.2	0.750 U	0.750 U	0.750 U
1,2,4-Trimethylbenzene	56	--	56	0.500 U	0.500 U	0.500 U
1,2-Dibromo-3-chloropropane*	0.00033	0.2	0.00033	1.00 U	1.00 U	1.00 U
1,2-Dibromoethane (EDB)*	0.0075	0.05	0.0075	0.500 U	0.500 U	0.500 U
1,2-Dichlorobenzene	300	600	300	0.500 U	0.500 U	0.500 U
1,2-Dichloroethane	0.17	5	0.17	0.500 U	0.500 U	0.500 U
1,2-Dichloroethene	--	--	--	1.00 U	0.500 U	0.500 U
1,2-Dichloropropane	0.85	5	0.85	0.500 U	0.500 U	0.500 U
1,3,5-Trichlorobenzene	--	--	--	0.500 U	0.500 U	0.500 U
1,3,5-Trimethylbenzene	60	--	60	0.500 U	0.500 U	0.500 U
1,3-Dichlorobenzene	--	--	--	0.750 U	0.750 U	0.750 U
1,3-Dichloropropane	370	--	370	0.500 U	0.500 U	0.500 U
1,4-Dichlorobenzene	0.48	75	0.48	0.500 U	0.500 U	0.500 U
2,2-Dichloropropane	--	--	--	0.500 U	0.500 U	0.500 U
2-Butanone (MEK)	5600	--	5600	3.00 U	3.00 U	3.00 U
2-Chloroethyl vinyl ether	--	--	--	NA	2.50 U	NA
2-Chlorotoluene	240	--	240	0.500 U	0.500 U	0.500 U
2-Hexanone	38	--	38	4.00 U	4.00 U	4.00 U
4-Chlorotoluene	250	--	250	0.750 U	0.750 U	0.750 U
4-Methyl-2-pentanone (MIBK)	6300	--	6300	4.00 U	4.00 U	4.00 U
Acetone	18000	--	18000	5.00 U	5.00 U	5.00 U
Benzene*	0.46	5	0.46	0.750 U	0.750 U	0.750 U
Bromobenzene	62	--	62	0.500 U	0.500 U	0.500 U
Bromochloromethane	83	--	83	0.500 U	0.500 U	0.500 U
Bromodichloromethane*	0.13	80	0.13	0.750 U	0.750 U	0.750 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-312R		
			Sample ID	DOW-MW-312R-042324	DOW-MW312R-062524	DOW-MW-312R-0924
			Sampling Date	23-Apr-24	25-Jun-24	17-Sep-24
			QC Identifier			
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs			
Bromoform	3.3	80	3.3	0.500 U	0.500 U	0.500 U
VOC (UG/L)						
Bromomethane	7.5	--	7.5	1.00 U	1.00 U	1.00 U
Carbon disulfide	810	--	810	0.500 U	0.500 U	0.500 U
Carbon Tetrachloride*	0.46	5	0.46	0.500 U	0.500 U	0.500 U
Chlorobenzene	78	100	78	0.500 U	0.500 U	0.500 U
Chloroethane	8300	--	8300	1.50 U	1.50 U	1.50 U
Chloroform*	0.22	80	0.22	0.750 U	0.750 U	0.750 U
Chloromethane	190	--	190	1.00 U	1.00 U	1.00 U
cis-1,2-Dichloroethene	36	70	36	0.500 U	0.500 U	0.500 U
cis-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U
Cumene	450	--	450	0.500 U	0.500 U	0.500 U
Cyclohexane	13000	--	13000	0.750 U	0.750 U	0.750 U
Dibromochloromethane	0.87	80	0.87	0.750 U	0.750 U	0.750 U
Dibromomethane	8.3	--	8.3	1.00 U	1.00 U	1.00 U
Dichlorodifluoromethane	200	--	200	1.00 U	1.00 U	1.00 U
Diethyl ether (Ethyl ether)	3900	--	3900	1.00 U	1.00 U	1.00 U
Ethyl methacrylate	630	--	630	0.750 U	0.750 U	0.750 U
Ethylbenzene	1.5	700	1.5	0.500 U	0.500 U	0.500 U
Hexachlorobutadiene*	0.14	--	0.14	1.50 U	1.50 U	1.50 U
m,p-Xylene	--	--	--	1.50 U	1.50 U	1.50 U
Methyl acetate	20000	--	20000	1.50 U	1.50 U	1.50 U
Methyl tert-butyl ether (MTBE)	14	--	14	0.750 U	0.750 U	0.750 U
Methylcyclohexane	--	--	--	0.750 U	0.750 U	0.750 U
Methylene chloride	11	5	5	2.50 U	2.50 U	2.50 U
Naphthalene*	0.12	--	0.12	0.750 U	0.750 U	0.750 U
n-Butylbenzene	1000	--	1000	0.500 U	0.500 U	0.500 U
n-Propylbenzene	660	--	660	0.750 U	0.750 U	0.750 U
o-Xylene	190	--	190	0.500 U	0.500 U	0.500 U
p-Cymene (p-Isopropyltoluene)	--	--	--	0.500 U	0.500 U	0.500 U
sec-Butylbenzene	2000	--	2000	0.500 U	0.500 U	0.500 U
Styrene	1200	100	100	0.500 U	0.500 U	0.500 U
tert-Butyl alcohol	150	--	150	5.00 U	5.00 U	5.00 U
tert-Butylbenzene	690	--	690	0.750 U	0.750 U	0.750 U
Tetrachloroethene (PCE)	11	5	5	1.00 U	1.00 U	1.00 U
Tetrahydrofuran	3400	--	3400	5.00 U	5.00 U	5.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-312R		
			Sample ID	DOW-MW-312R-042324	DOW-MW312R-062524	DOW-MW-312R-0924
			Sampling Date	23-Apr-24	25-Jun-24	17-Sep-24
			QC Identifier			
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs			
Toluene	1100	1000	1000	0.750 U	0.750 U	0.750 U
Total, 1,3-Dichloropropene	0.47	--	0.47	0.500 U	0.500 U	0.500 U
VOC (UG/L)						
trans-1,2-Dichloroethene	68	100	68	0.500 U	0.500 U	0.500 U
trans-1,3-Dichloropropene	--	--	--	0.500 U	0.500 U	0.500 U
Trichloroethene (TCE)*	0.49	5	0.49	0.750 U	0.750 U	0.750 U
Trichlorofluoromethane	5200	--	5200	1.00 U	1.00 U	1.00 U
Vinyl acetate	410	--	410	1.00 UJ	1.00 U	1.00 U
Vinyl chloride*	0.019	2	0.019	1.00 U	1.00 U	1.00 U
Xylenes, Total	190	10000	190	1.50 U	1.50 U	1.50 U
SVOC (UG/L)						
2-Methylnaphthalene	36	--	36	0.190 U	0.200 U	0.210 U
Acenaphthene	530	--	530	0.140 U	0.150 U	0.160 U
Acenaphthylene	--	--	--	0.140 U	0.150 U	0.160 U
Anthracene	1800	--	1800	0.0950 U	0.0990 U	0.100 U
Benzo(a)anthracene*	0.03	--	0.03	0.0950 U	0.0990 U	0.100 U
Benzo(a)pyrene*	0.025	0.2	0.025	0.140 U	0.150 UJ	0.160 U
Benzo(b)fluoranthene	0.25	--	0.25	0.190 U	0.200 UJ	0.210 U
Benzo(g,h,i)perylene	--	--	--	0.140 U	0.150 UJ	0.160 U
Benzo(k)fluoranthene	2.5	--	2.5	0.0950 U	0.0990 UJ	0.100 U
Chrysene	25	--	25	0.0950 U	0.0990 UJ	0.100 U
Dibenz(a,h)anthracene*	0.025	--	0.025	0.140 U	0.150 UJ	0.160 U
Fluoranthene	800	--	800	0.140 U	0.150 U	0.160 U
Fluorene	290	--	290	0.140 U	0.150 U	0.160 U
Indeno(1,2,3-c,d)pyrene	0.25	--	0.25	0.140 U	0.150 UJ	0.160 U
Naphthalene*	0.12	--	0.12	0.140 U	0.150 U	0.160 U
Phenanthrene	--	--	--	0.140 U	0.150 U	0.160 U
Pyrene	120	--	120	0.190 U	0.200 U	0.210 U
METALS (UG/L)						
Aluminum	20000	--	20000	**1660**	**1410**	**1620**
Antimony	7.8	6	6	**1.00**	**1.00**	**1.01**
Arsenic*	0.052	10	0.052	**12.0**	**12.0**	**7.60**
Barium	3800	2000	2000	**8.88**	**9.92**	**10.1**
Beryllium	25	4	4	0.200 U	0.200 U	0.200 U
Cadmium	1.8	5	1.8	0.200 U	0.200 U	0.200 U
Calcium	--	--	--	**13200**	**14400**	**8750**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-312R		
			Sample ID	DOW-MW-312R-042324	DOW-MW312R-062524	DOW-MW-312R-0924
			Sampling Date	23-Apr-24	25-Jun-24	17-Sep-24
			QC Identifier			
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs			
Chromium	--	100	100	**4.80 J**	**2.40 J**	4.00 U
Cobalt	6	--	6	0.300 U	0.300 U	0.300 U
Copper	800	1300	800	**4.00**	**2.20 J**	2.00 U
METALS (UG/L)						
Iron	14000	--	14000	**52.0 J**	**78.0 J**	**25.0 J**
Lead	15	15	15	0.500 U	0.500 U	0.500 U
Magnesium	--	--	--	**6200**	**6290**	**3780**
Manganese	430	--	430	**43.5**	**66.0**	**43.5**
Nickel	390	--	390	1.20 U	1.20 U	1.20 U
Potassium	--	--	--	**5740**	**4860**	**4830**
Selenium	100	50	50	3.00 U	3.00 U	**0.850 J**
Silver	94	--	94	0.400 U	0.400 U	0.400 U
Sodium	--	--	--	**108000**	**111000**	**108000**
Thallium*	0.2	2	0.2	0.400 U	0.400 U	0.400 U
Vanadium	86	--	86	**4.10 J**	**3.70 J**	**4.20 J**
Zinc	6000	--	6000	8.00 U	8.00 U	8.00 U
METAL (Diss) (UG/L)						
Aluminum, Dissolved	20000	--	20000	**1250**	**1710**	**1630**
Antimony, Dissolved	7.8	6	6	**0.610 J**	**1.40**	**0.886 J**
Arsenic, Dissolved*	0.052	10	0.052	**13.0**	**15.0**	**7.80**
Barium, Dissolved	3800	2000	2000	**12.6**	**12.2**	**4.30**
Beryllium, Dissolved	25	4	4	0.200 U	0.200 U	0.200 U
Cadmium, Dissolved	1.8	5	1.8	0.200 U	0.200 U	0.200 U
Calcium, Dissolved	--	--	--	**17000**	**19700**	**8580**
Chromium, Dissolved	--	100	100	**4.50 J**	**2.50 J**	4.00 U
Cobalt, Dissolved	6	--	6	0.300 U	0.300 U	**0.0610 J**
Copper, Dissolved	800	1300	800	**3.20**	**2.00 J**	**0.930 J**
Iron, Dissolved	14000	--	14000	60.0 U	**40.0 J**	60.0 U
Lead, Dissolved	15	15	15	0.500 U	0.500 U	0.500 U
Magnesium, Dissolved	--	--	--	**7540**	**8730**	**4070**
Manganese, Dissolved	430	--	430	**66.9**	**88.0**	**37.3**
Nickel, Dissolved	390	--	390	1.20 U	1.20 U	1.20 U
Potassium, Dissolved	--	--	--	**4560**	**6310**	**4940**
Selenium, Dissolved	100	50	50	3.00 U	3.00 U	3.00 U
Silver, Dissolved	94	--	94	0.400 U	0.400 U	0.400 U
Sodium, Dissolved	--	--	--	**104000**	**149000**	**119000**

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-312R		
			Sample ID	DOW-MW-312R-042324	DOW-MW312R-062524	DOW-MW-312R-0924
			Sampling Date	23-Apr-24	25-Jun-24	17-Sep-24
			QC Identifier			
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs			
Thallium, Dissolved*	0.2	2	0.2	0.400 U	0.400 U	0.400 U
Vanadium, Dissolved	86	--	86	**3.50 J**	**4.30 J**	**4.90 J**
Zinc, Dissolved	6000	--	6000	8.00 U	8.00 U	8.00 U

Table 6-2
Comparison of Groundwater Analytical Results to Screening Levels
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

			Location	MW-312R		
			Sample ID	DOW-MW-312R-042324	DOW-MW312R-062524	DOW-MW-312R-0924
			Sampling Date	23-Apr-24	25-Jun-24	17-Sep-24
			QC Identifier			
ANALYTE	2022 Tapwater RSL (THQ 1.0)	2022 EPA MCL	SL, QAPP PALs			
CR (Diss) (UG/L)						
Hexavalent Chromium, Dissolved	0.035	--	0.035	NA	**0.571 J**	**0.150 J**
HG (UG/L)						
Mercury	0.63	2	0.63	0.100 U	**0.0610 J**	0.100 U
HG (Diss) (UG/L)						
Mercury, Dissolved	0.63	2	0.63	0.100 U	0.100 U	0.100 U

Notes:

Bold = detected

Shaded = detected above the screening level (SL)

SLs are the lowest of:

May 2022 EPA RSLs Tap Water

2022 EPA Maximum Contaminant Levels (MCLs)

*Screening Level is below the Laboratory Limits

-- - No SL available

J - Estimated Value

U - Undetected: The analyte was analyzed for, but not detected.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in r
specific quality control criteria.

UG/L - Micrograms per Liter

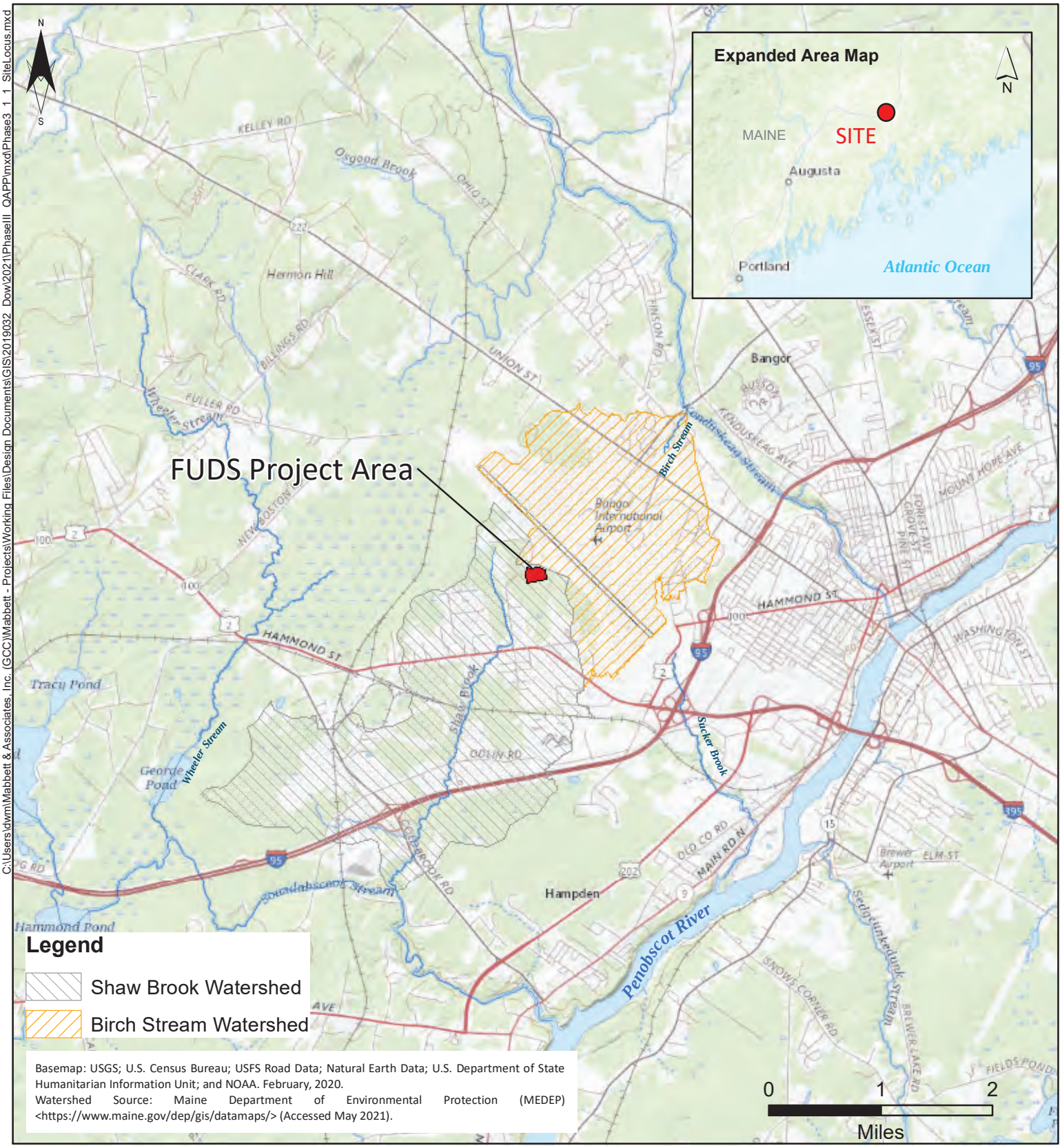
Table 6-3
Comparison of Hydraulic Conductivity Values to Academic and Previous Study Values
Former Dow Air Force Base Aviation Fuel Filter/Drum/TCE Disposal Area FUDS
Bangor, Maine

Material	Aquifer Model	Solution	Hydraulic Conductivity (m/sec)		Hydraulic Conductivity (ft/day)	
Unconsolidated Sedimentary Materials[1]						
Silt, loess			1.00E-09	2.00E-05	2.83E-04	5.67E+00
Till			1.00E-12	2.00E-06	2.83E-07	5.67E-01
Clay			1.00E-11	4.70E-09	2.83E-06	1.33E-03
Unweathered marine clay			8.00E-13	2.00E-09	2.27E-07	5.67E-04
Sedimentary Rocks[1]						
Siltstone			1.00E-11	1.40E-08	2.83E-06	3.97E-03
2023/2024 Study[2]						
MW-301	Confined	Theis/Hantush	5.70E-06		1.616	
	Confined	Cooper-Jacob	1.63E-06		0.463	
	Leaky	Hantush-Jacob	2.81E-06		0.796	
	Leaky	Hantush	8.19E-07		0.232	
	Unconfined	Theis	5.98E-06		1.694	
	Unconfined	Cooper-Jacob	4.77E-06		1.351	
	Unconfined	Neuman	4.87E-06		1.379	
MW-303	Confined	Theis	4.83E-05		13.685	
	Confined	Cooper-Jacob	5.13E-05		14.531	
	Leaky	Hantush-Jacob	4.86E-05		13.783	
	Leaky	Hantush	2.03E-05		5.763	
	Unconfined	Theis	4.97E-05		14.096	
	Unconfined	Neuman	4.97E-05		14.102	
	Unconfined	Cooper-Jacob	5.26E-05		14.905	
	Unconfined	Moench	4.27E-05		12.115	
MW-304	Confined	Theis/Hantush	2.13E-05		6.037	
	Confined	Cooper-Jacob	9.88E-06		2.800	
	Leaky	Hantush-Jacob	2.06E-05		5.827	
	Leaky	Hantush	6.85E-06		1.941	
	Unconfined	Cooper-Jacob	9.96E-06		2.823	
	Unconfined	Theis	2.58E-05		7.308	
	Unconfined	Neuman	1.04E-05		2.946	
	Unconfined	Moench	2.10E-05		5.948	
MW-312R	Confined	Theis/Hantush	1.04E-07		0.030	
	Confined	Cooper-Jacob	3.94E-08		0.011	
	Leaky	Hantush-Jacob	2.12E-08		0.006	
	Leaky	Moench (Case 1)	8.09E-09		0.002	
	Unconfined	Cooper-Jacob	4.48E-08		0.013	
Previous Study[3]						
Slug testing			7.06E-07		0.2	
Typical Presumpscot Formation			7.06E-11	7.06E-08	0.00002	0.02
Typical Biddeford Silt Loam Soils			3.53E-07	1.76E-06	0.1	0.5
MW-5			2.12E-07		0.06	

Notes:

1. Hydraulic conductivity data for "Unconsolidated Sedimentary Materials" and "Sedimentary Rocks" come from:
Domenico, P.A. and F.W. Schwartz, 1990. Physical and Chemical Hydrogeology, John Wiley & Sons, New York, p. 824.
2. Hydraulic conductivity data for "2023/2024 Study" derived using AQTESOLV Pro software using field-collected monitoring well development data
3. Hydraulic conductivity data for "Previous Study" come from:
GZA Environmental, Inc., 1994. Site Investigation Report, September 1994.

FIGURES



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US Army Corps of Engineers.

Former Dow Air Force Base

Bangor, Maine

Formerly Used Defense Site (FUDS)
Property and Project Number D01ME0004 02

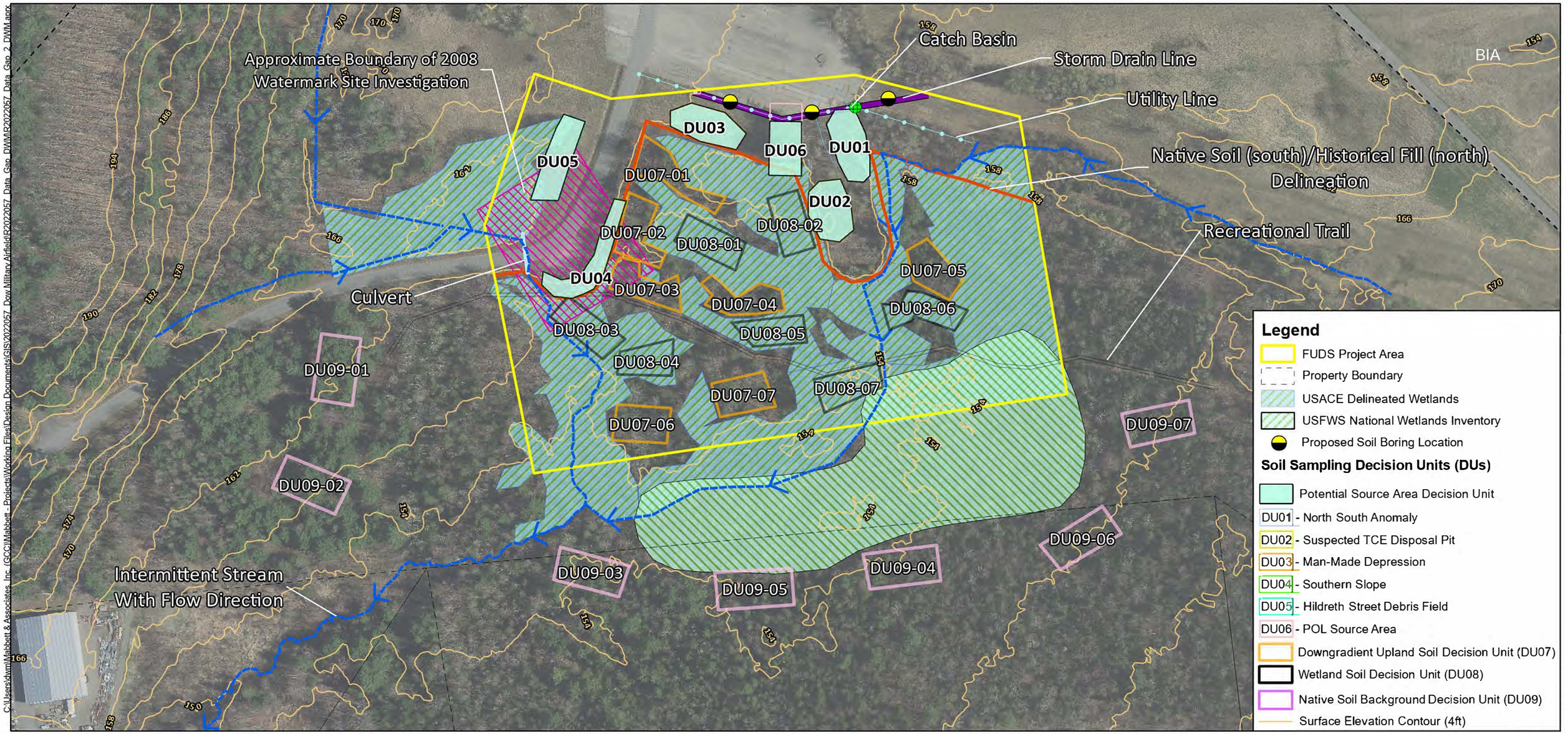
SITE LOCUS MAP

Phase III Remedial Investigation

U.S. Army Corps of Engineers, New England District

Figure 1-1

Drawn: DWM	Approved: SAV
Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)	
Contract No. W912WJ-19-D-0005	Date: 10/4/2024



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US Army Corps of Engineers.

Former Dow Air Force Base

Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02

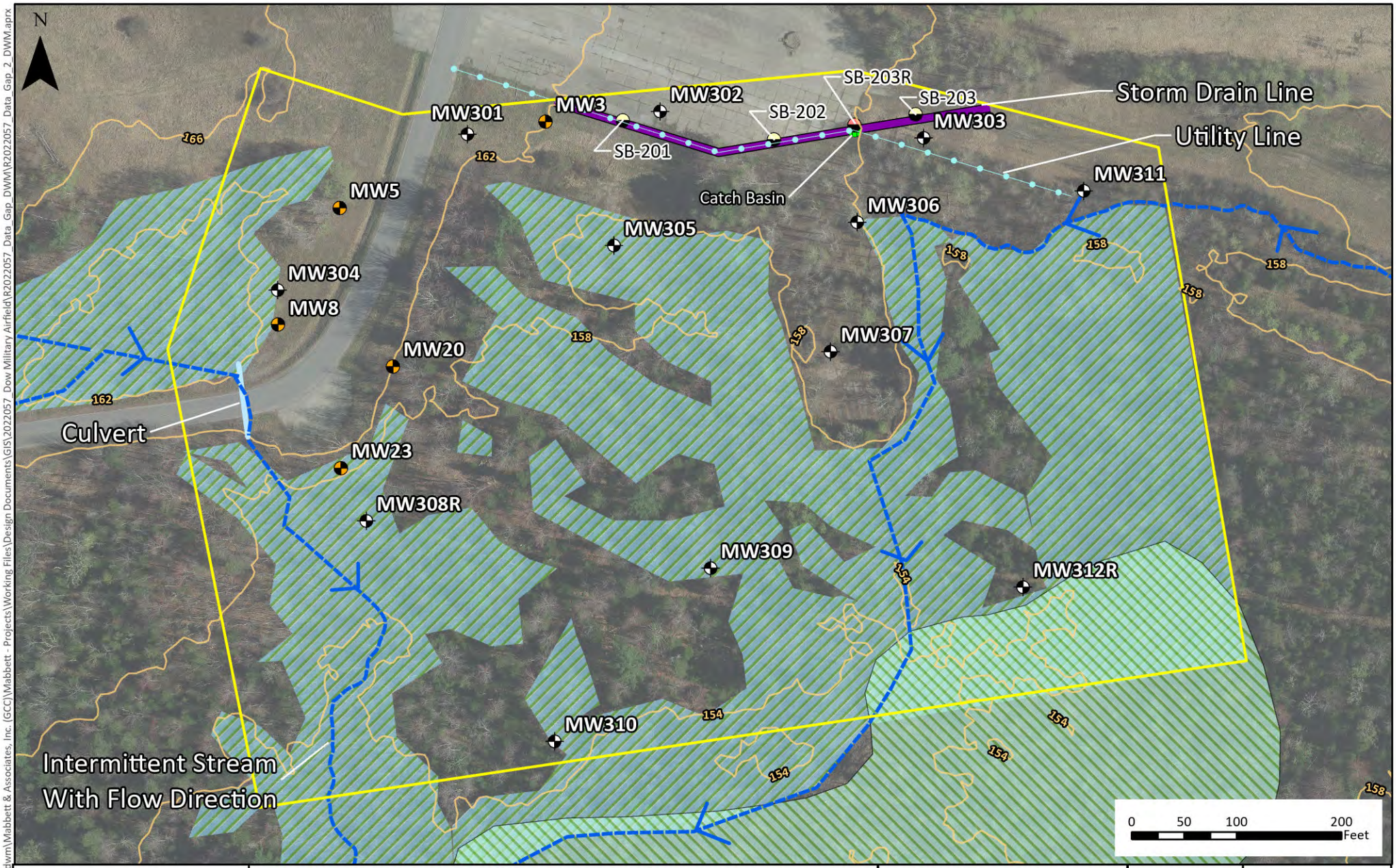
SITE PLAN AND DISPOSAL AREA LOCATIONS

Phase III Remedial Investigation
U.S. Army Corps of Engineers, New England District

Figure 1-2

Drawn: DWM	Approved: DPJ
Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)	
Contract No. W912WJ-16-D-0004	Date: 3/26/2025

Notes:
Basemap: Spring 2019 leaf-off conditions Maine Statewide Orthoimagery Project https://gis.maine.gov/arcgis/rest/services/imageryBaseMapsEarthCover/orthoRegional2019/ImageServer (Accessed Nov 2024).
Propery boundaries: City of Bangor https://bangormaine.gov/gis/, Maine Office of GIS https://maine.gov/megis/maps/ (Accessed May 2021).
Utility Line and Catch Basin locations: Hager-Richter Geoscience, Inc. Surface Geophysical Surveys Report, April 2021.
2008 Watermark Site Investigation Boundary and U.S. Army Corp of Engineers (USACE) delineated wetlands locations: Watermark Environmental, Inc., Final Site Investigation Summary Report, January 2013.
Maine wetland data: U.S. Fish and Wildlife Services (USFWS) https://www.fws.gov/ (Accessed May 2021).
Storm Drain Line location: James W. Sewall Consulting Engineers, Bangor International Airport Peripheral Land Study Infrastructure Plan, Storm Drainage, May 1989. Utility locations and scale are considered approximate.
Surface Elevation Contours: Maine Office of GIS https://maine.gov/geolib/. (Accessed Mar 2025). Vertical datum NAVD88.



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Figure 3-1

Monitoring Well Network

US Army Corps of Engineers

Former Dow Air Force Base

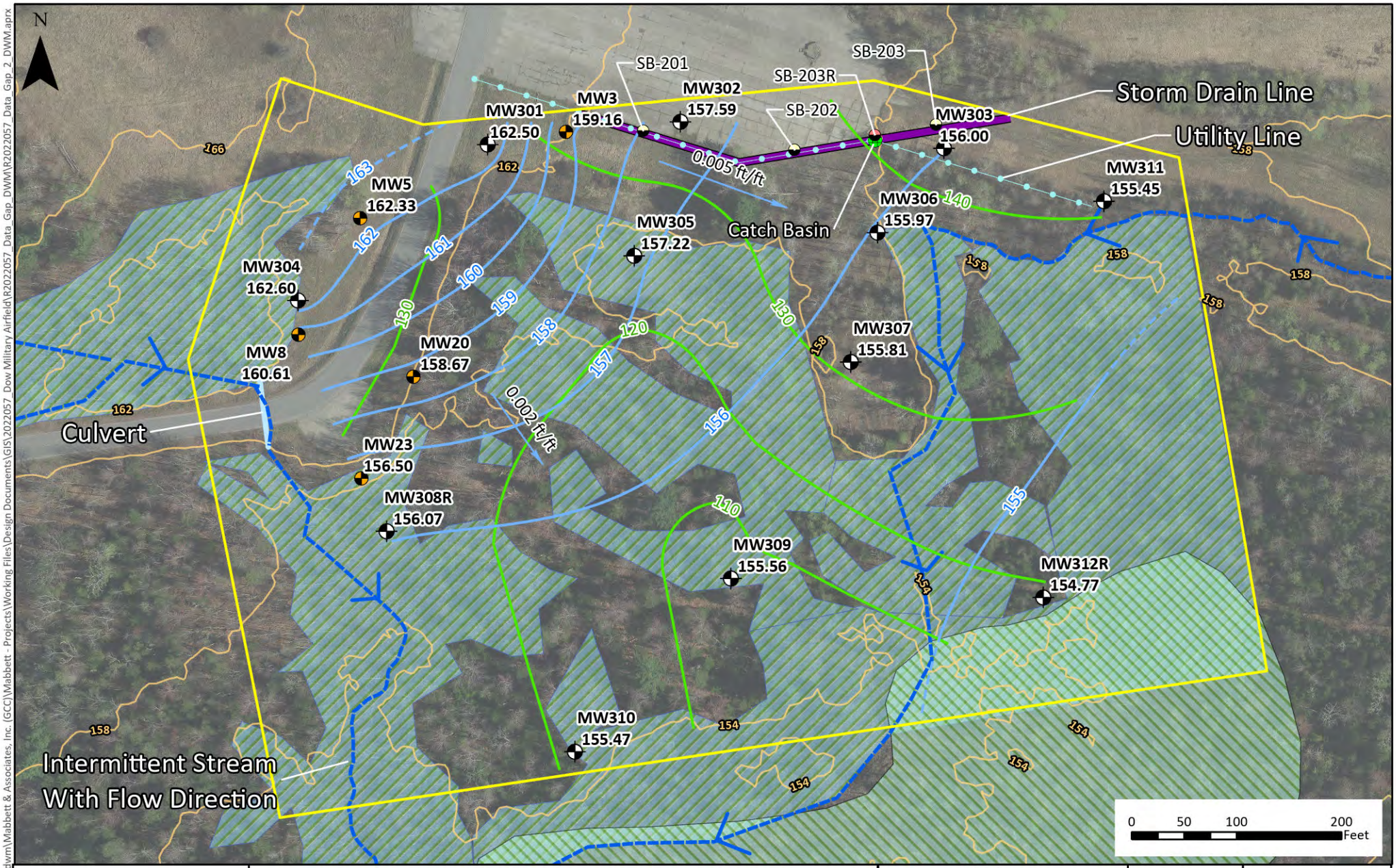
Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02
Phase III Remedial Investigation
U.S. Army Corps of Engineers, New England District

Legend

- FUDS Project Area
- USACE Delineated Wetlands
- USFWS National Wetlands Inventory
- Phase III RI Overburden-Bedrock Interface Monitoring Well
- Shallow Overburden Wells
- Drain Line Boring and Temporary Piezometer Location
- Revised Drain Line Boring and Temporary Piezomter Location
- Surface Elevation Contours (4ft)

Drawn: DWM	Approved: DPJ
Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)	
Contract No. W912WJ-19-D-0005	Date: 3/26/2025

Notes:
Basemap: Spring 2019 leaf-off conditions Maine Statewide Orthoimagery Project https://gis.maine.gov/arcgis/rest/services/Imagery/BaseMapsEarthCover/orthoRegional2019/ImageServer (Accessed Nov 2024).
Utility Line and Catch Basin locations: Hager-Richter Geoscience, Inc. Surface Geophysical Surveys Report, April 2021.
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Maine wetland data: U.S. Fish and Wildlife Services (USFWS) https://www.fws.gov/ (Accessed May 2021).
Storm Drain Line location: James W. Sewall Consulting Engineers, Bangor International Airport Peripheral Land Study Infrastructure Plan, Storm Drainage, May 1989. Utility locations and scale are considered approximate.
Surface Elevation Contours: Maine Office of GIS https://maine.gov/geolib/. (Accessed Mar 2025). Vertical datum NAVD88.



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Figure 5-1

Groundwater Contour Map
April 22, 2024

US Army Corps of Engineers

Former Dow Air Force Base

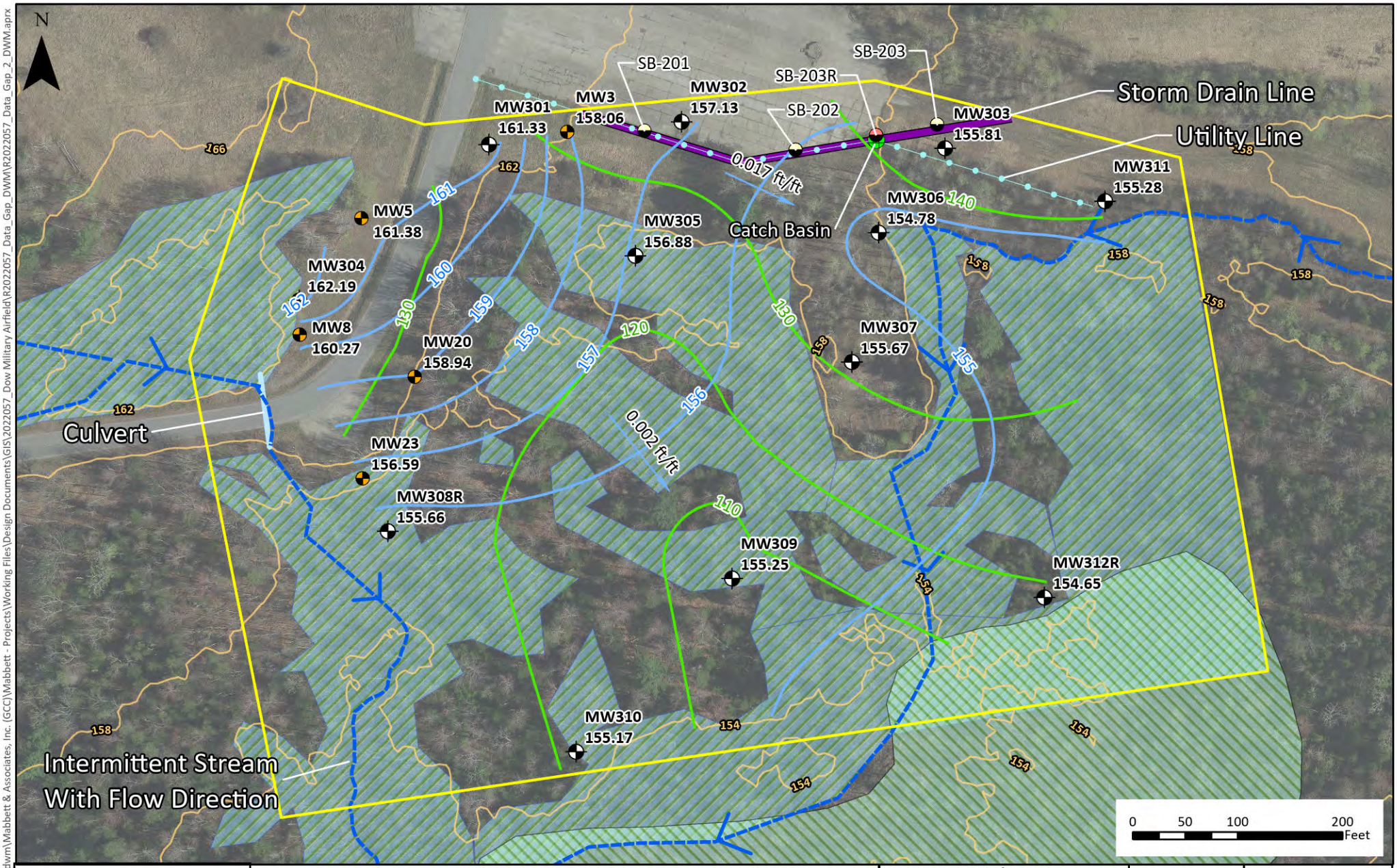
Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02
Conceptual Site Model
U.S. Army Corps of Engineers, New England District

Legend

- FUDS Project Area
- USACE Delineated Wetlands
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- Shallow Overburden Wells
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- Revised Drain Line Boring and Temporary Piezometer Location
- Groundwater Elevation Contour (ft)
- Interpreted Groundwater Elevation Contour (ft)
- Hydraulic Gradient
- Bedrock Elevation Contour (ft)
- Surface Elevation Contours (4ft)

Drawn: DWM	Approved: DPJ
Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)	
Contract No. W912WJ-19-D-0005	Date: 3/26/2025

Notes:
Basemap: Spring 2019 leaf-off conditions Maine Statewide Orthoimagery Project https://gis.maine.gov/arcgis/rest/services/ImageryBaseMapsEarthCover/orthoRegional2019/ImageServer (Accessed May 2021).
Utility Line and Catch Basin locations: Hager-Richter Geoscience, Inc. Surface Geophysical Surveys Report, April 2021.
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Storm Drain Line location: James W. Sewall Consulting Engineers, Bangor International Airport Peripheral Land Study Infrastructure Plan, Storm Drainage, May 1989. Utility locations and scale are considered approximate.
Surface Elevation Contours: Maine Office of GIS https://maine.gov/geolib/. (Accessed Mar 2025). Vertical datum NAVD88.



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Figure 5-2

Groundwater Contour Map
June 25, 2024

US Army Corps of Engineers

Former Dow Air Force Base

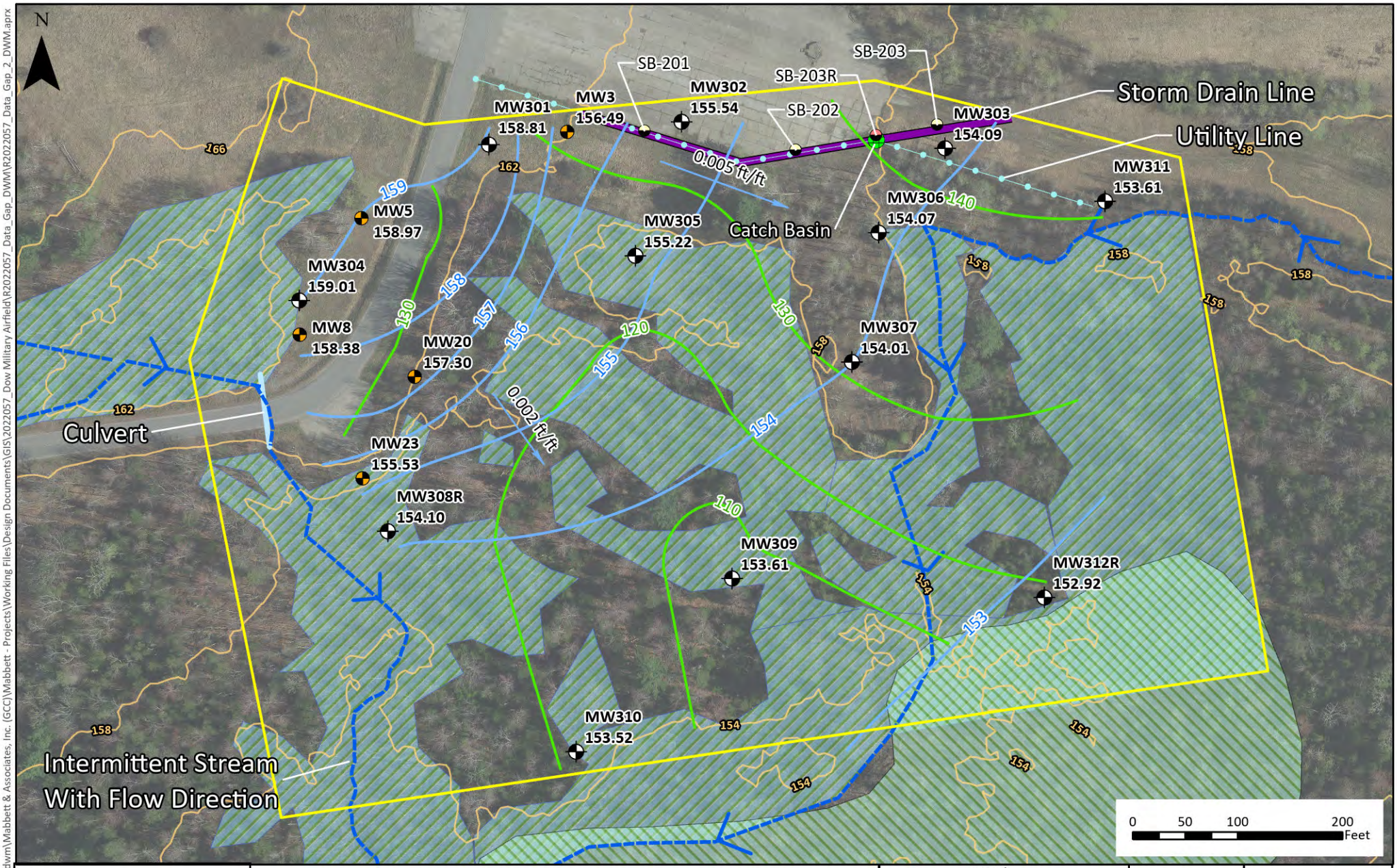
Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02
Conceptual Site Model
U.S. Army Corps of Engineers, New England District

Legend

- FUDS Project Area
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- Groundwater Elevation Contour (ft)
- Hydraulic Gradient
- Bedrock Elevation Contour (ft)
- Surface Elevation Contours (4ft)

Drawn: DWM	Approved: DPJ
Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)	
Contract No. W912WJ-19-D-0005	Date: 3/26/2025

Notes:
Basemap: Spring 2019 leaf-off conditions Maine Statewide Orthoimagery Project https://gis.maine.gov/arcgis/rest/services/ImageryBaseMapsEarthCover/orthoRegional2019/ImageServer (Accessed May 2021).
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Surface Elevation Contours: Maine Office of GIS https://maine.gov/geolib/. (Accessed Mar 2025). Vertical datum NAVD88.



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Figure 5-3

Groundwater Contour Map
September 16, 2024

US Army Corps of Engineers

Former Dow Air Force Base

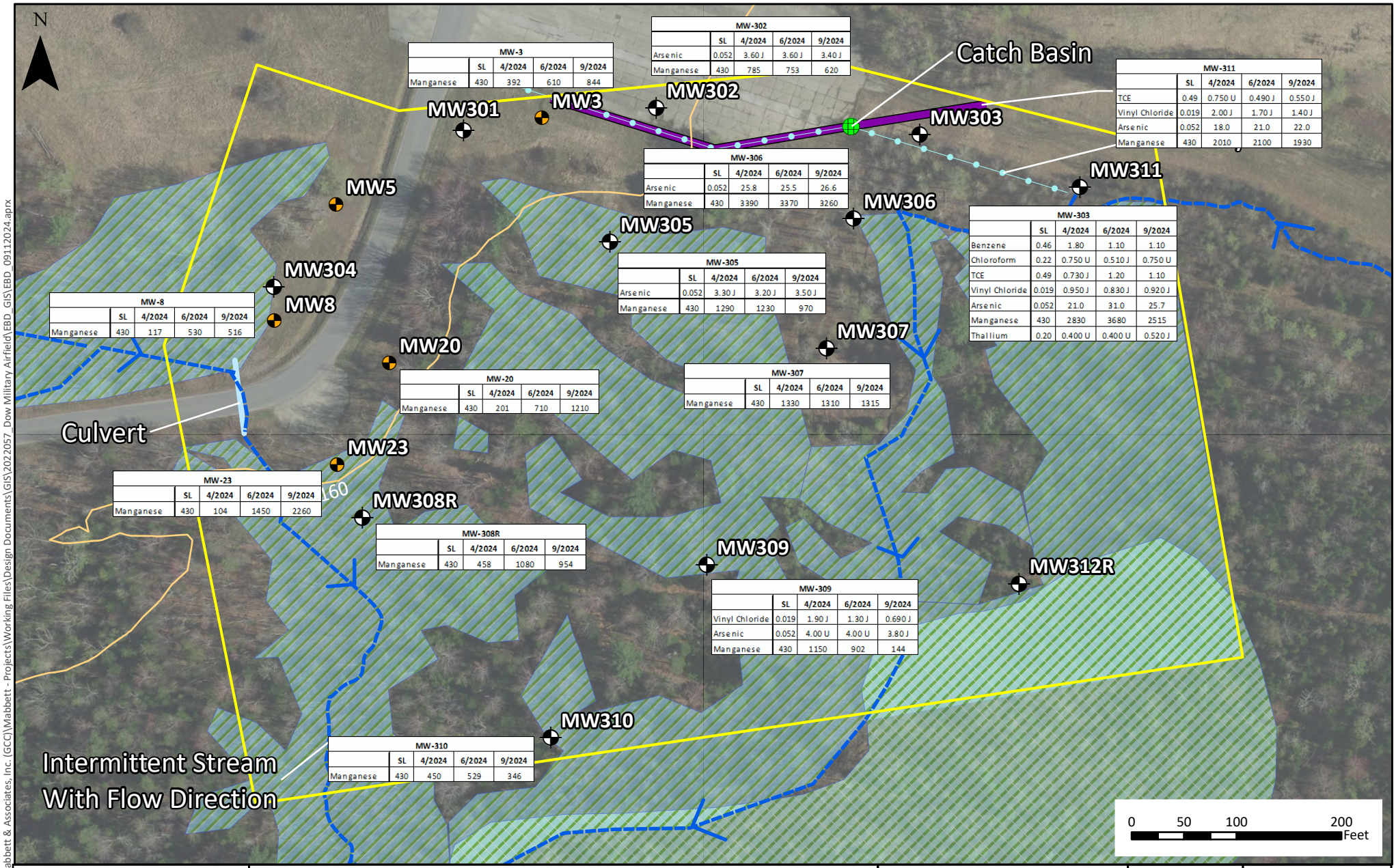
Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02
Conceptual Site Model
U.S. Army Corps of Engineers, New England District

Legend

- FUDS Project Area
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- Bedrock Elevation Contour (ft)
- Surface Elevation Contours (4ft)

Drawn: DWM	Approved: DPJ
Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)	
Contract No. W912WJ-19-D-0005	Date: 3/26/2025

Notes:
Basemap: Spring 2019 leaf-off conditions Maine Statewide Orthoimagery Project https://gis.maine.gov/arcgis/rest/services/ImageryBaseMapsEarthCover/orthoRegional2019/ImageServer (Accessed May 2021).
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Storm Drain Line location: James W. Sewall Consulting Engineers, Bangor International Airport Peripheral Land Study Infrastructure Plan, Storm Drainage, May 1989. Utility locations and scale are considered approximate.
Surface Elevation Contours: Maine Office of GIS https://maine.gov/geolib/. (Accessed Mar 2025). Vertical datum NAVD88.



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Figure 6-1

Location of Screening Level Exceedances in Groundwater

US Army Corps of Engineers

Former Dow Air Force Base

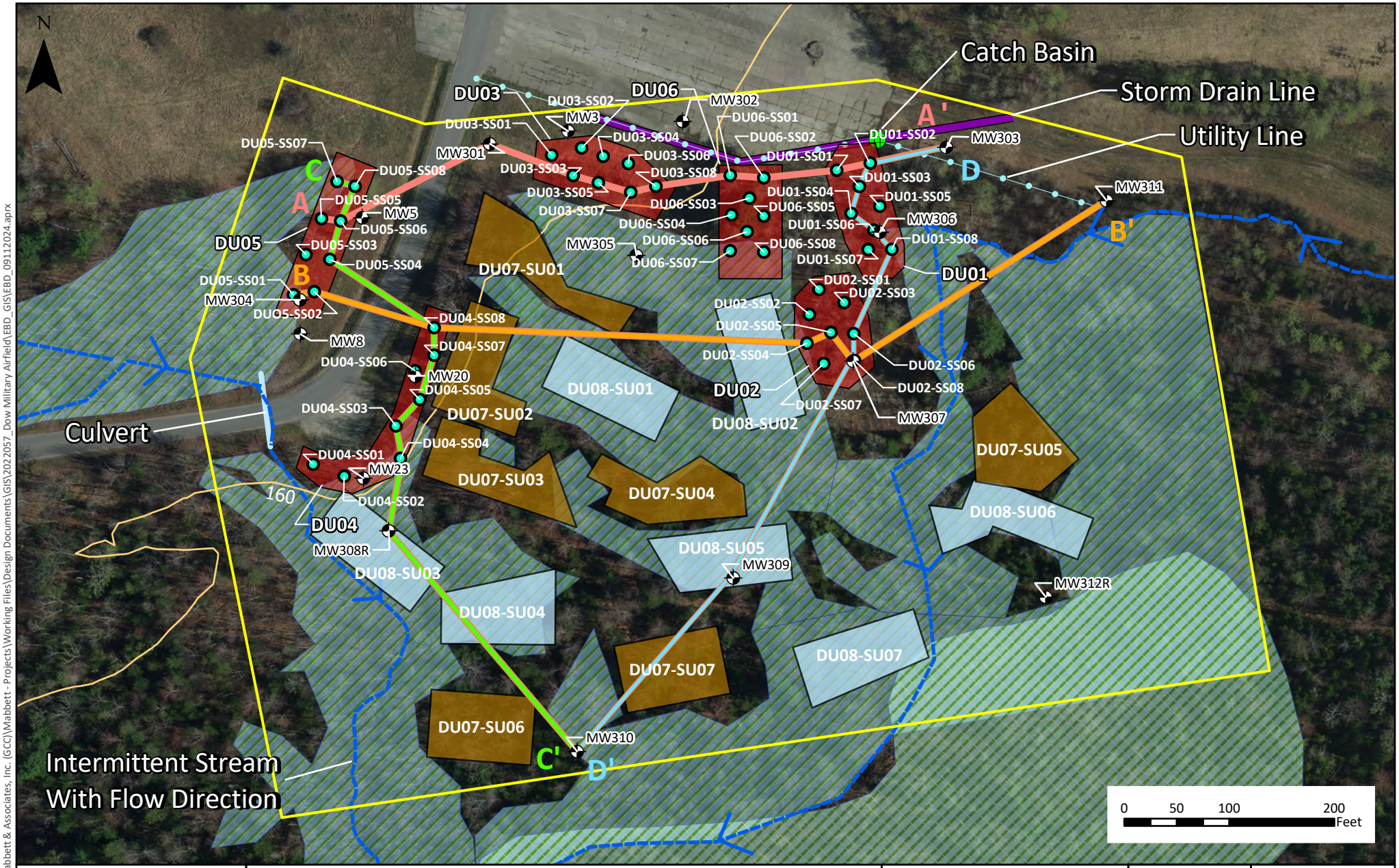
Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02
Phase III Remedial Investigation
U.S. Army Corps of Engineers, New England District

Legend

- FUDS Project Area
- Phase III RI Overburden-Bedrock Interface Monitoring Well
- Shallow Overburden Wells
- USACE Delineated Wetlands
- USFWS National Wetlands Inventory
- Surface Elevation Contours With Labels (Feet)

Drawn: EBD
Approved: DPJ
Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)
Contract No. W912WJ-19-D-0005
Date: 2/11/2025

Notes:
Basemap: Spring 2019 leaf-off conditions Maine Statewide Orthoimagery Project https://gis.maine.gov/arcgis/rest/services/imageryBaseMapsEarthCover/orthoRegional2019/ImageServer (Accessed Nov 2024).
Utility Line and Catch Basin locations: Hager-Richter Geoscience, Inc. Surface Geophysical Surveys Report, April 2021.
U.S. Army Corp of Engineers (USACE) delineated wetlands locations: Watermark Environmental, Inc., Final Site Investigation Summary Report, January 2013.
Maine wetland data: U.S. Fish and Wildlife Services (USFWS) https://www.fws.gov/ (Accessed May 2021).
Storm Drain Line location: James W. Sewall Consulting Engineers, Bangor International Airport Peripheral Land Study Infrastructure Plan, Storm Drainage, May 1989. Utility locations and scale are considered approximate.
Surface Elevation Contours: U.S. Geological Survey, 20241030, USGS 1/3 Arc Second n45w069 20241030: U.S. Geological Survey. https://www.sciencebase.gov/catalog/item/67298ccfd34e338a476a337d (Accessed Nov 2024).



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Figure 6-2

Cross-Section Location
Analysis Locations

US Army Corps of Engineers

Former Dow Air Force Base

Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02
Phase III Remedial Investigation
U.S. Army Corps of Engineers, New England District

Legend

- FUDS Project Area
- Monitoring Well Location
- DPT Soil Boring Location
- Source Area Decision Units (DU01-DU06)
- Wetland Site Units (DU08)
- Downgradient Site Units (DU07)
- USACE Delineated Wetlands
- USFWS National Wetlands Inventory
- Surface Elevation Contours With Labels (Feet)

Drawn: EBD | Approved: DPJ

Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)

Contract No. W912WJ-19-D-0005 | Date: 11/21/2024

Notes:
Basemap: Spring 2019 leaf-off conditions Maine Statewide Orthoimagery Project https://gis.maine.gov/arcgis/rest/services/ImageryBaseMapsEarthCover/orthoRegional2019/ImageServer (Accessed Nov 2024).
Utility Line and Catch Basin locations: Hager-Richter Geoscience, Inc. Surface Geophysical Surveys Report, April 2021.
U.S. Army Corp of Engineers (USACE) delineated wetlands locations: Watermark Environmental, Inc., Final Site Investigation Summary Report, January 2013.
Maine wetland data: U.S. Fish and Wildlife Services (USFWS) https://www.fws.gov/ (Accessed May 2021).
Storm Drain Line location: James W. Sewall Consulting Engineers, Bangor International Airport Peripheral Land Study Infrastructure Plan, Storm Drainage, May 1989. Utility locations and scale are considered approximate.
Surface Elevation Contours: U.S. Geological Survey, 20241030, USGS 1/3 Arc Second n45w069 20241030: U.S. Geological Survey. https://www.sciencebase.gov/catalog/item/6728bcc634e338a476a337d (Accessed Nov 2024).
DPT - Direct Push Technology

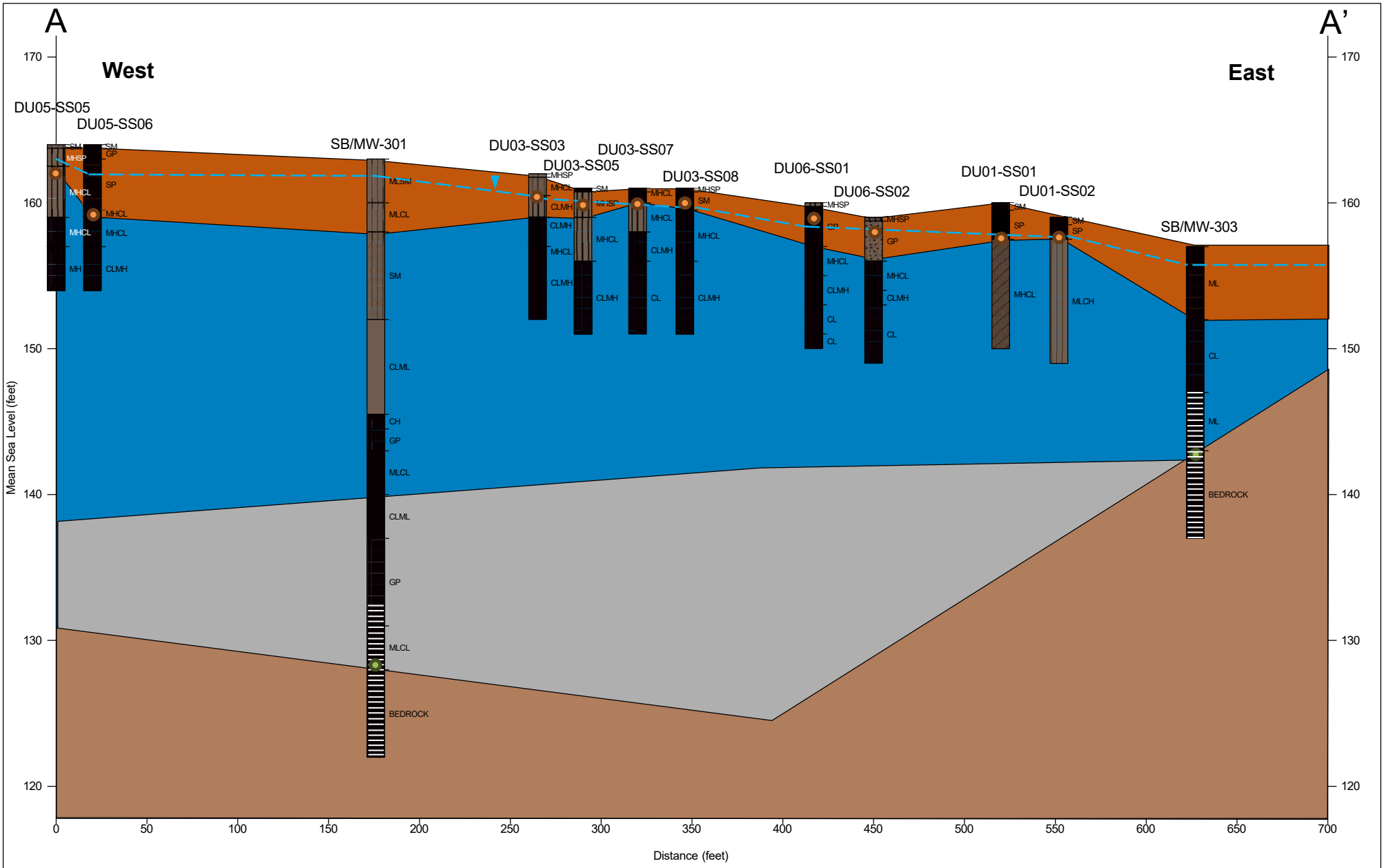


Figure 6-3

Overburden
Cross Section A-A'

US Army Corps of Engineers®

Former Dow Airforce Base
Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02
Conceptual Site Model
U.S. Army Corps of Engineers, New England District

Legend

- Fill
- Presumpscot Formation
- Till
- Bedrock
- Inferred Groundwater Surface
- Bounded HH PAH exceedance depth
- Unbounded HH PAH exceedance depth
- No HH PAH Exceedance

Notes

1. Ground surface elevations for individual boring locations extracted from a publicly available Google Earth DEM and are approximate only. Ground surface and stratigraphic contacts between individual locations were interpolated linearly and may differ significantly in real life from depicted.
2. Depths to bedrock and till in the vicinity of DU03 and DU05 are informed by borings SB-305 and SB-304 which are not depicted in this figure.
3. Depicted groundwater elevations are based on drilling log soil moisture observations, April 2024 groundwater gauging activities and the inferred control of the Presumpscot Formation on groundwater elevations. Groundwater elevations depicted may not be fully representative of actual groundwater conditions at individual locations.

Drawn: DPJ
Approved: SAV
Date: 8/23/2024
Contract No. W912WJ-19-D-0005

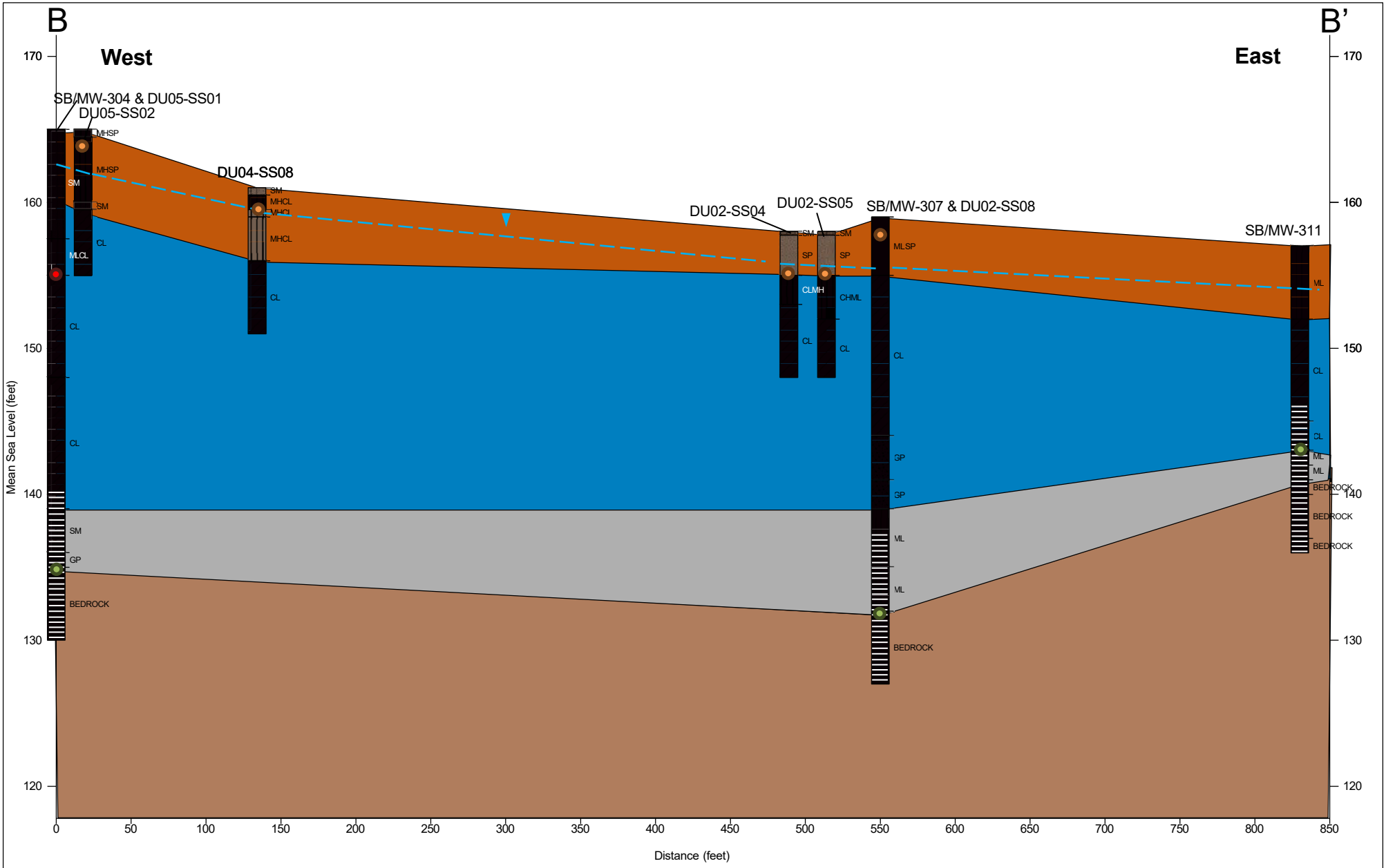


Figure 6-4

Overburden
Cross Section B-B'

US Army Corps of Engineers ®

Former Dow Airforce Base

Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02
Conceptual Site Model
U.S. Army Corps of Engineers, New England District

Legend

- Fill
- Presumpscot Formation
- Till
- Bedrock
- Inferred Groundwater Surface
- Bounded HH PAH exceedance depth
- Unbounded HH PAH exceedance depth
- No HH PAH Exceedance

Notes

1. Ground surface elevations for individual boring locations extracted from a publicly available Google Earth DEM and are approximate only. Ground surface and stratigraphic contacts between individual locations were interpolated linearly and may differ significantly in real life from depicted.
2. Depicted groundwater elevations are based on drilling log soil moisture observations, April 2024 groundwater gauging activities and the inferred control of the Presumpscot Formation on groundwater elevations. Groundwater elevations depicted may not be fully representative of actual groundwater conditions at individual locations.

Drawn: DPJ

Approved: SAV

Date: 8/23/2024

Contract No. W912WJ-19-D-0005

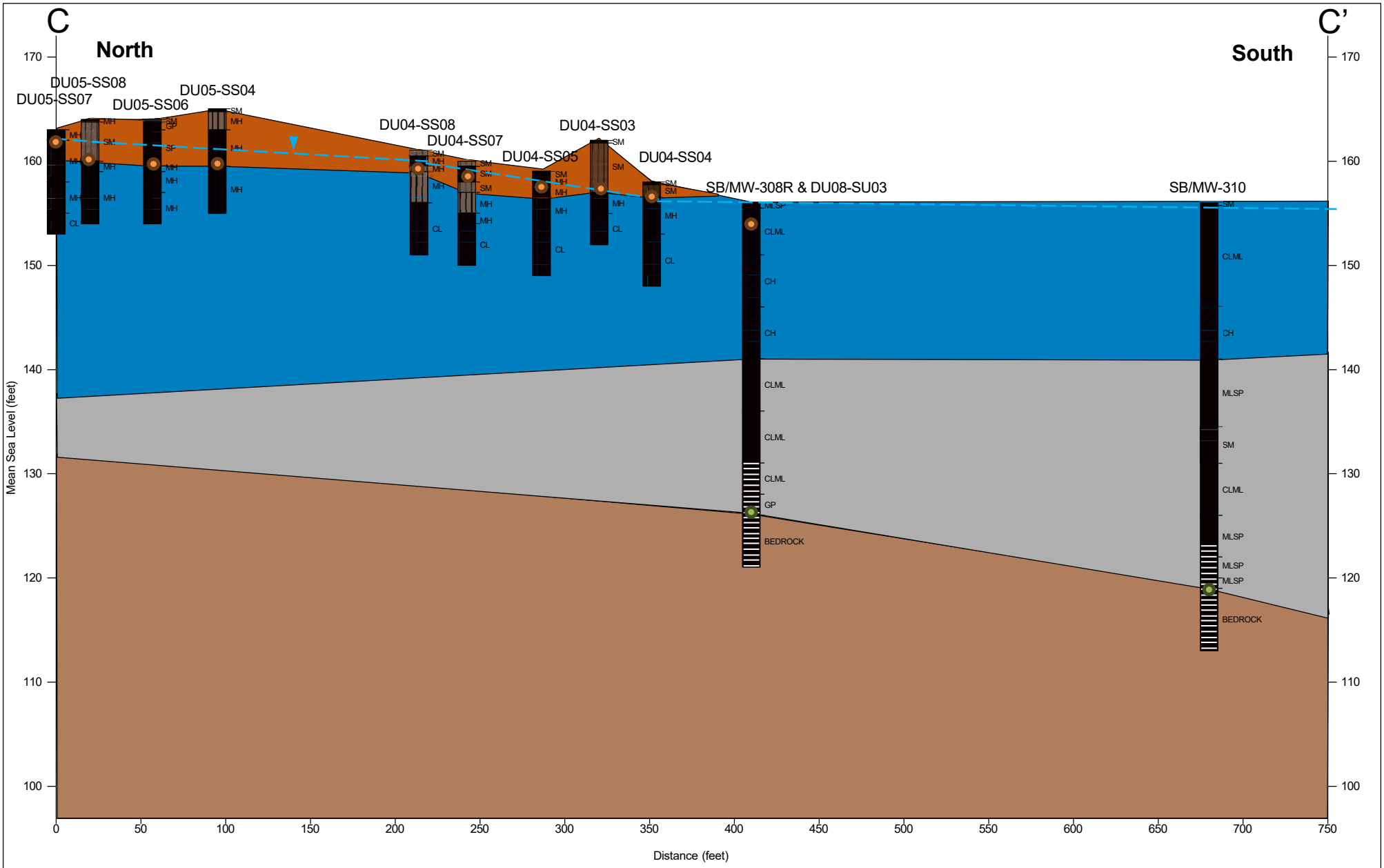


Figure 6-5

Overburden
Cross Section C-C'

US Army Corps of Engineers®

Former Dow Airforce Base

Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02
Conceptual Site Model
U.S. Army Corps of Engineers, New England District

Legend

- Fill
- Presumpscot Formation
- Till
- Bedrock
- Inferred Groundwater Surface
- Bounded HH PAH exceedance depth
- Unbounded HH PAH exceedance depth
- No HH PAH Exceedance

Notes

1. Ground surface elevations for individual boring locations extracted from a publicly available Google Earth DEM and are approximate only. Ground surface and stratigraphic contacts between individual locations were interpolated linearly and may differ significantly in real life from depicted.
2. Depths to bedrock and till in the vicinity of DU05 are informed by boring SB-304 which is not depicted in this figure.
3. Depicted groundwater elevations are based on drilling log soil moisture observations, groundwater gauging activities and the inferred control of the Presumpscot Formation on groundwater elevations. Groundwater elevations depicted may not be fully representative of actual groundwater conditions at individual locations.

Drawn: DPJ

Approved: SAV

Date: 8/23/2024

Contract No. W912WJ-19-D-0005

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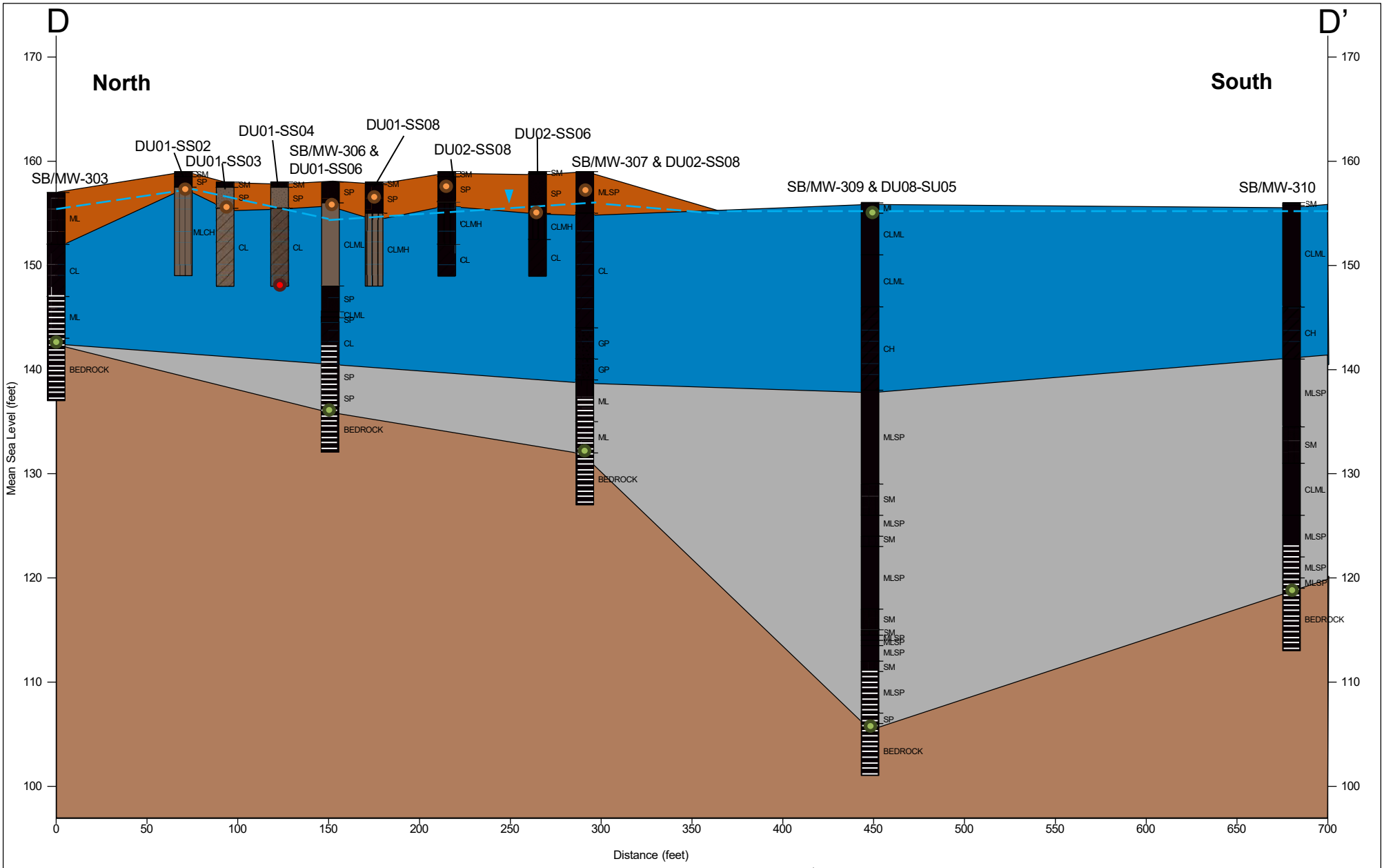


Figure 6-6

Overburden
Cross Section D-D'

US Army Corps of Engineers®

Former Dow Airforce Base

Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02
Conceptual Site Model
U.S. Army Corps of Engineers, New England District

Legend

- Fill
- Presumpscot Formation
- Till
- Bedrock
- Inferred Groundwater Surface
- Bounded HH PAH exceedance depth
- Unbounded HH PAH exceedance depth
- No HH PAH Exceedance

Notes

1. Ground surface elevations for individual boring locations extracted from a publicly available Google Earth DEM and are approximate only. Ground surface and stratigraphic contacts between individual locations were interpolated linearly and may differ significantly in real life from depicted.
2. Depicted groundwater elevations are based on drilling log soil moisture observations, April 2024 groundwater gauging activities and the inferred control of the Presumpscot Formation on groundwater elevations. Groundwater elevations depicted may not be fully representative of actual groundwater conditions at individual locations.

Drawn: DPJ

Approved:SAV

Date: 8/23/2024

Contract No. W912WJ-19-D-0005

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ATTACHMENT A

Conceptual Site Model

Attachment A
Conceptual Site Model

This Attachment A to Data Gap Report No. 2 presents an integrated discussion of the Dow Disposal Site (the Site) preliminary conceptual site model (CSM), describing current Site knowledge based on prior studies and the most recent Phase III Remedial Investigation (RI) effort completed in 2023/2024. This attachment summarizes the following information:

- Site location, operational history, and physical setting
- Sources of known or suspected constituents or classes of constituents of interest (COI)
- Primary release mechanism(s)
- Secondary and other release and transport mechanisms
- Potential receptors and exposure pathways

The Phase III RI field program was conducted in accordance with the USACE-approved Uniform Federal Policy-Quality Assurance Project Plan (UFP-QAPP), dated July 2023 (USACE, 2023). This CSM is preceded by the original CSM included in Section 10 of the QAPP. Figures are attached to this CSM to illustrate key elements of the Site state of knowledge.

1.0 SITE BACKGROUND AND SETTING

The physical setting, operational history, and findings from previous investigations within and proximate to the FUDS Project Area are summarized below. Background and operational histories, along with summaries of past investigations presented below are based on information presented in reports and information packages listed in the reference section at the end of the QAPP (USACE, 2023).

The understanding of Site conditions was also informed by additional research, data collection efforts, and discussions that USACE has held with project stakeholders.

1.1 Site Location

The Dow Disposal Site is located approximately 3 miles west of the City of Bangor, south of the Bangor International Airport (BIA) in Penobscot County, Maine (Figure A-1-1). For the purposes of this FUDS investigation and future Site management decisions, the Site refers to approximately 13 acres of land possibly impacted from former military operations within the area labeled “FUDS Project Area” depicted on Figure A-1-2 (the terms “Site” and “FUDS Project Area” are used interchangeably throughout this document). The FUDS Project Area is partially intersected and bounded by a former fighter parking stub and taxiway, which is currently used as an access road to the BIA perimeter fence accessed from Hildreth Street North. The remaining FUDS Project Area is largely composed of forested woodland and wetland areas which are traversed by a recreational all-terrain vehicle (ATV) and snowmobile trail in the southern portion of the Site (Figure A-1-2). The FUDS Project Area boundary may be adjusted during implementation of the RI/FS, if needed, based on the interpretation of sampling results, to include only those areas determined to have been impacted by a FUDS release(s).

It is important to note that the FUDS Project Area is bordered to the north by a former fire training area known to have been impacted by a release of per- and polyfluoroalkyl substances (PFAS) due to historical operations. The Responsible Party for this site is the City of Bangor and the site is currently being addressed under a state program. As such, expansion of the FUDS Project Area and investigative activities to the north of the FUDS Project Area cannot be performed under the FUDS program.

1.2 Operational History

The property currently being operated as the BIA was originally developed in 1921 as a municipal airfield known as Godfrey Field. In early 1940, the U.S. government acquired the property and re-named it the Bangor Army Air Base for subsequent use as an airfield in support of World War II efforts. Federal funds were used for the airfield development for defense projects (Air Transport Command, 1945). The property was renamed Dow Army Airfield in 1942 and re-designated as an aerial port of embarkation and debarkation for planes flying to and from Europe and as a prisoner of war camp (USACE, 1993). The facility was subsequently renamed Dow Air Force Base in 1947 and was deactivated in 1949 with jurisdiction transferred over to the City of Bangor.

The facility was reactivated in 1951 for use as a Strategic Air Command (SAC), Tactical Air Command (TAC), and Air Defense Command (ADC) installation during the Korean conflict with jurisdiction given back to the SAC. Improvements to the airfield made during this era included realignment and replacement of original runways into longer runways and construction of runway aprons, support facilities, aircraft hangars, and fuel storage facilities. The base was deactivated again in 1964 but continued operating under military ownership until 1968 when approximately 75 percent of the land (1,591 acres) was transferred to the City of Bangor for use at what is now the BIA (USACE, 1993). The remainder of the land was transferred to the Maine Air National Guard (MEANG).

A former Fire Training Area (FTA) abuts the FUDS Project Area to the northwest (Figure A-1-2) and was used by the United States Air Force (USAF), the MEANG, and the city of Bangor Fire Department from 1947 through 1984.

The former Searsport-Loring Fuel Pipeline, an abandoned 6-inch pipeline that previously delivered jet fuel to the former Dow Airfield and Loring Air Force Base, is located approximately 1,000 feet west of the center of the FUDS Project Area (Figure A-1-2). This pipeline was decommissioned in 1994 and filled with nitrogen to inhibit corrosion. The pipeline lease was purchased by Gas Natural, Inc. in September of 2012, with its subsidiary Bangor Natural Gas responsible for maintaining the pipeline right-of-way.

An historical aerial imagery analysis was completed by the Army Geospatial Center (AGC) in 2016 (AGC, 2016). The aerial analysis performed by the AGC suggests military activities occurred between 1944 and 2014 within the northern portion of the FUDS Project Area, but few, if any, activities were observed in the southern portion of the FUDS Project Area. During this period, approximately 3 acres of the FUDS Project Area was brought to current grade by placement of fill containing various debris.

1.3 Climatic Setting

The Bangor area is situated in a humid continental climate, with cold, snowy winters, and warm summers characterized by U.S. Department of Agriculture (USDA) hardiness zone 5a. The monthly daily average temperature, as officially recorded at the abutting BIA, ranges from 17.0° F in January to 68.5° F in July with an average of 21 nights annually that drop to 0° F or below and 57 days where the temperature stays below freezing, including 49 days from December through February. An average of 5.3 days annually has highs at or above 90° F; these higher temperatures have generally occurred since 2014. Record temperatures for the Bangor area range from −32° F as recorded on February 10, 1948, up to 104° F as documented on August 19, 1935. The first freeze in the Bangor area generally occurs during the first week of October and runs through the first month of May, corresponding to a yearly average freeze-free season of approximately 150 days.

Precipitation in the Bangor area averages approximately 42 inches (of water) per year with November, the wettest month, averaging 4.2 inches of precipitation and February, the driest month, averaging 2.5 inches of precipitation. The average seasonal snowfall for Bangor is approximately 66 inches with snowfall accumulation ranging from roughly 22 inches in 1979-80 to approximately 182 inches in 1962-63 with the record monthly snowfall amount of 58 inches recorded in February 1969. Measurable snow in May occurs in Bangor approximately every 4 years, and measurable snowfall occurs rarely in September.

1.4 Topography

The elevation (NAVD 88) of the main runway at the BIA ranges from 192 feet at the northeastern-most edge of the main runway to 163 feet at the southeastern edge of the main runway. The topography of the BIA generally slopes downward to the northeast, away from the main runway.

The FUDS Project Area is situated at elevations ranging from approximately 153 to 165 feet based on survey data collected during the 2008 SI (USACE, 2008) and the 2017 (USACE, 2018) Phase I RI. The topography then generally slopes to the south/southwest from the FUDS Project Area. The FUDS Project Area is located adjacent to the southwest boundary of an approximately 1,900-acre watershed, which drains the airfield and discharges to Birch Stream, which is located to the northeast of the airfield (Figure A-1-1). The FUDS Project Area is, therefore, generally described as being located along a drainage divide where locations north of the FUDS Project Area ultimately drain to the northeast, while locations within the FUDS Project Area drain to the south.

As evident in the Light Detection and Ranging (LiDAR) 2-meter hillshade imagery shown on Figure A-1-3, the general topography at the FUDS Project Area appears to have been modified as part of the former Dow Military Airfield development. The northern portion of the FUDS Project Area is generally flat and at an elevation approximately 4 to 6 feet above the underlying native soil to the south of the FUDS Project Area. The hillshade imagery shows a clear delineation between historically filled portions of the FUDS Project Area and portions that have not been filled. The filled portion of the FUDS Project Area is at approximately 164 feet and is at a slightly lower elevation than the FTA to the north (approximately 174 feet) and beyond. This elevation difference influences overland surface water run-off originating at the southern portion of the former FTA to flow south onto the FUDS Project Area. Surface water drainage from the western side of the FTA area also drains to a small surface water stream that is culverted under Hildreth Street North, southward through the Site and ultimately to Shaw Brook to the south (Figure A-1-3). Similarly, the predominant direction of surface water flow within the FUDS Project Area is from the northern, filled portion toward the unfilled portion toward the wetlands and streams in a south/southwesterly direction.

1.5 Geology, Hydrology, and Hydrogeology

This section includes a discussion of surface soils and available information about bedrock. Published soils and bedrock data (Maine Geological Survey, 2011) are included on Figures A-1-4 and A-1-5 respectively. Bedrock elevation information and groundwater flow direction from the Phase III RI are provided on Figure A-1-6a (April 2024), Figure A-1-6b (June 2024), and Figure A-1-6c (September 2024). A conceptual geological cross section through the FUDS Project Area, based on the available information from previous investigations, is shown on Figure A-1-7. Hydrogeological cross-sections developed from soil borings advanced during the RI are provided in Data Gap Report No. 2 on Figures 6-3 through 6-6. The data summarized in the cross-sections include calculated groundwater elevations from the April 2024 groundwater sampling event, incremental sampling methodology (ISM) soil descriptions, and subsurface soil descriptions obtained via direct push technology (DPT) and sonic drilling.

1.5.1 Soils

Bangor is in an area of complex geology dissected by fluvial processes and later subjected to intense glaciation. This glaciation resulted in thick deposits of glacial till and marine muds. A review of the Bangor Surficial Geology Quadrangle (Figure A-1-4) identifies local geology in the FUDS Project Area as the Presumpscot Formation., a late Pleistocene/early Holocene massive glaciomarine mud comprised of unweathered bedrock minerals such as quartz, feldspar and mica (MGS, 2000). This unit is commonly a clayey silt, but with abundant sand in places and typically contains low permeabilities (Thompson, 1977).

The areas immediately surrounding the FUDS Project Area are documented on the Bangor Quadrangle as till, a loose to very compact, poorly-sorted massive to weakly stratified mixture of sand, silt, and gravel-sized rock debris deposited by glacial ice with boulders common at the ground surface interface.

Approximately 3 acres of the upland portion of the FUDS Project Area were brought to current grade by the placement of fill during airfield construction containing various quantities of debris. Based on Phase III RI characterization activities, the fill material, where present, generally ranged from a depth of 1 foot to 5 feet below ground surface (bgs) and consisted of brown to dark brown silty medium to fine sand. Underlying the fill was 10 to 20 feet of Presumpscot grey clay resting either on bedrock or up to 20 feet of glacial till atop bedrock (see Figures 6-3 through 6-6 of Data Gap Report No. 2).

1.5.2 Bedrock

Bedrock underlying the FUDS Project Area is defined as the Brewer Formation, consisting of dark gray to black siltstone and claystone slate.

In 2017, Hager-Richter conducted a geophysical survey of the FUDS Project Area using seismic refraction and electrical resistivity imaging (ERI). These data along with the available subsurface data from previous investigations were documented in a report (Hager-Richter, 2021) to provide an interpretation of the topography of the bedrock surface. This data was supplemented by the sonic drilling program completed in 2023-2024, which included coring approximately 5 feet into bedrock at the 12 new monitoring well locations. The interpreted bedrock topography is summarized as follows:

- The bedrock surface generally deepens from north to south within the seismic refraction survey area.
- The depth of competent bedrock varies from approximately 8 to 20 feet bgs, and bedrock elevation varies from approximately 134 to 157 feet, for a total apparent relief of approximately 23 feet.
- The compressional wave velocity of bedrock ranges from 11,000 to 16,000 feet per second.

Additional detail on the geophysical survey and corresponding cross-sectional profiles that display the interpreted overburden-bedrock contact and possible bedrock fracture zones along each of the seven transects in the FUDS Project Area is provided in the Hager-Richter report (2021) submitted under separate cover.

Geologic boring logs near and within the FUDS Project Area completed before the Phase III RI stated that refusal "assumed to be bedrock" was encountered at 10.5 feet below grade in MW-4 (located near the northeastern boundary of the tarmac) and 17 feet below grade in MW-1 (located at the western end of the tarmac near Hildreth Street North). Bedrock cores were not collected (GZA, 1991). Borings completed during the 2008 SI were terminated at 12 to 14 feet below grade and before refusal was encountered (Watermark, 2013). Therefore, the consistency of the seismic refraction data was measured by comparing the depths determined from the separate seismic refraction survey lines; the estimated standard deviation of the depths of competent bedrock determined by the surveys is approximately 2 feet.

During the Phase III RI, twelve borings were advanced via sonic drilling approximately 5 feet into bedrock. Depth to bedrock between the twelve borings varied between 14 feet bgs to 50 feet bgs. Bedrock consisted of Brewer Formation gray fine-grained siltstone and meta-graywacke with high fracture angles and iron oxide staining. Slickensides and striations were present on fractured surfaces. Quartz veins roughly 1/16-inch thick, secondary fractures, and closed fractures were also present. The bedrock surface was determined to slope northwest to southeast, with a low point centrally located within the FUDS Project Area extending from the MW-301 to MW-309 vicinities. Sonic boring logs are provided in Attachment B of Data Gap Report No. 2. Bedrock elevation contours based on Phase III RI drilling activities are shown on Figures A-1-6a through A-1-6c. Table 4-1 of the Data Gap Report No. 2 includes the anticipated top of bedrock elevation, based on the 2017 geophysical survey, and the encountered top of bedrock elevation in table format.

1.5.3 Surface Water

Surface water within the FUDS Project Area and in the surrounding area is shown on Figure A-1-8 and discussed in the following subsections. Note that surface water and pore water were sampled extensively in the Phase II RI program and no surface water/pore water samples were collected during the Phase III RI.

Surface Water Within the FUDS Project Area. Within the FUDS Project Area are two segments of an un-named intermittent stream that is part of a tributary of Shaw Brook. The western segment of the stream channel originates up to approximately 600 feet northwest of the FUDS Project Area, in a low area on the western side of Hildreth Street North within the former FTA. The stream flows south until reaching Hildreth Street North, where it may pool and infiltrate to groundwater when there is insufficient water volume. When volume is present, the stream continues flowing south into a 30-inch diameter corrugated metal culvert under Hildreth Street North, then discharges into a stream channel along the western side of the FUDS Project Area. The stream channel continues south for approximately 500 feet, passing through wetlands along the approximately western border of the FUDS Project Area, and then it combines with the eastern segment of the un-named stream, as discussed in the following paragraph.

The eastern segment of the stream channel originates approximately 800 feet east of the FUDS Project Area, near the location of the Suspected TCE Disposal Pit, where there is a former fighter turning spur and where nine 55-gallon drums reportedly containing 1,1,1-trichloroethane (TCA) were disposed of prior to property transfer in 1968 (USEPA, 1991). Additional discussion about the Suspected TCE Disposal Pit is presented in Section 2.1.2 of this CSM. Starting from the Suspected TCE Disposal Pit, the stream channel follows a linear west-east path along the grass-covered access road along the southwestern border of the BIA. Approximately 200 feet of the western end of the stream channel is considered to extend into the filled portion of the FUDS Project Area. Where the western end of the channel stream reaches the fighter turning spur (which is comprised of approximately 4 to 6 feet of fill above the native ground elevation), the stream channel veers due south, following the eastern border of the fighter turning spur, and then curves to the southwest where it passes through wetlands for approximately 500 feet. At this point, the western and eastern stream segments converge and form a single stream channel.

The un-named intermittent stream is dry during some summers or periods of prolonged drought. A series of vernal pool ecosystems and a scrub wetland bound on three sides by running water south of the FUDS Project Area were also identified and mapped as depicted in Figure A-1-8.

Surface Water Beyond the FUDS Project Area. Within a 2.5-mile radius of the FUDS Project Area are several surface water bodies, including the Penobscot River, its tributary the Kenduskeag Stream, the Souadabscook Stream, Wheeler Stream, Birch Stream, Hermon Pond, Hammond Pond, Georges Pond, Osgood Brook, Pug Brook, Sucker Brook, and Shaw Brook.

The intermittent stream channel continues southwest from the FUDS Project Area for approximately 1,500 feet, where it then enters a culvert on the eastern side of Hildreth Street North. After passing through the culvert under the western side of Hildreth Street North, the stream channel flows southwest for approximately 300 feet until it discharges into Shaw Brook. Shaw Brook generally runs along the western edge of Hildreth Street North.

Shaw Brook is included on the MEDEP 303(d) list of urban impaired streams for not meeting the water quality standards for aquatic life use based on results of a Total Maximum Daily Load (TMDL) Assessment of pollutants conducted by MEDEP in 2006. Shaw Brook flows for approximately 3 miles to the south-southwest until discharging into the Souadabscook Stream, which is classified as a Class B freshwater stream; the Souadabscook Stream ultimately discharges to the Penobscot River.

1.5.4 Groundwater

Groundwater resource maps depicting the location, depth, and use of existing water wells within a 2.5-mile radius of the FUDS Project Area were identified as part of the Data Gap Report. These maps identified bedrock wells used

for potable water within a 2.5-mile radius of the FUDS Project Area (from data published by MEDEP) and further identified the selected wells anticipated to be hydrologically downgradient from the FUDS Project Area based on local and regional surface topography.

The depth to groundwater is influenced by the location of the well and seasonal factors which include the potential presence of perched water at the interface between the more transmissive shallow fill-containing interval and the underlying Presumpscot Formation clayey silt.

Prior investigations reported the hydraulic conductivity (based on field slug test data) was 0.2 feet/day in wells screened in tight silt, which was higher than the range typically reported for Presumpscot Formation ($2x10^{-5}$ to $2x10^{-2}$ feet/day). However, the values are within the range reported for Biddeford Silt Loam soils that are derived from weathering of the Presumpscot (0.1 to 0.5 feet/day) (GZA, 1994). The relatively elevated permeability values reflect the degree of weathering of these soils and in particular the presence of joints and fractures. Hydraulic conductivity was 0.06 feet/day in one well (MW-5) screened in dense silty glacial till and considered to be within typical ranges encountered for similar materials at other sites (GZA, 1994).

Results of the 2008 SI indicated a groundwater to surface water hydraulic connection based on the seasonal wetlands, flowing channel stream surface water, and water levels in the monitoring wells, as documented at that time in 2008 (Watermark, 2013).

In wells located within the northern portion of the FUDS Project Area, groundwater was documented at depths ranging from 4 to 6 feet below top of casing in November, 2008 (Watermark, 2013). However, depths to groundwater measured during a USACE PDT Site visit on October 25, 2016 indicated static water levels at several existing monitoring wells at much deeper depths than those observed in 2008 (10 to 12 feet below top of casing); attributable to prolonged drought conditions. Later, significant precipitation throughout the first six months of 2017 resulted in a substantial rebound of static water levels as noted from water level depths measured in these wells in late May 2017. As monitoring wells present at that time are screened across fill and Presumpscot Formation, and do not extend into the till layer, water levels at these monitoring locations may be affected by the presence or absence of perched water. Additionally, during the Phase I RI test pitting program in October-November 2017 (following and during periods of high rainfall), groundwater in the southern portion of the FUDS Project Area was observed just below the ground surface, and in the northern portion of the FUDS Project Area test pits at approximately 1 to 3 feet bgs.

The Phase III RI included the installation, development, and stabilization of twelve onsite monitoring wells. Monitoring wells were installed approximately 5 feet into bedrock with 10-foot screens with the middle of the screen at the bedrock interface. Ten-foot screened intervals were installed between 11 feet and 55 feet bgs due to variable bedrock depths observed during the sonic drilling program. Monitoring wells were gauged in April and June 2024, with measured depths to water ranging from 2.02 to 6.90 feet bgs, consistent with water levels measured during previous investigations during non-drought conditions. The deep overburden groundwater flows northwest to southeast as shown by Figure A-1-6a through Figure A-1-6c.

1.6 Ecological Setting

The FUDS Project Area is set within an area abutting the BIA that has been substantially re-worked, as seen on the historical aerial photographs and the LiDAR 2-meter hillshade map, presumably as part of changing operations and needs as a former military airfield. Currently, the FUDS Project Area includes a mix of upland and wetland habitats. Mixed open grassy fields are present in the FTA to the north and west of the FUDS Project Area, with woodlands to the west, south, and east of the FUDS Project Area.

As previously described, within the FUDS Project Area, only the portion of the native mixed hardwood forest within the southern, unfilled area appears to be unaffected by past DoD operations. While the previously denuded

filled area has revegetated since property transfer (AGC, 2016), past DoD operations required substantial land clearing and grading efforts, particularly where the fighter turning spurs were constructed.

Wetlands were delineated by USACE staff in May 2017 and are depicted on Figure A-1-8. A U.S. Fish and Wildlife Service (USFWS) mapped wetland also exists to the east-southeast of the FUDS Project Area as observed initially during field efforts in 2008 and verified during the USACE PDT Site visit completed in late October 2016.

Forested areas are vegetated with small to medium diameter trees, most of which have a diameter at breast height (dbh) less than 12 inches. Balsam fir (*Abies balsamea*), grey birch (*betula populifolia*), white birch (*Betula papyrifera*), white pine (*Pinus strobus*), and red oak (*Quercus rubra*) occur in forested uplands. Balsam fir, grey birch, and red maple are common in forested wetlands. Standing dead snags and downed habitat logs are common in both forested wetlands and uplands. Scrub-shrub wetlands occurring along streams and to the south of the project area are vegetated with alder (*Alnus*), high bush blueberry (*Vaccinium corymbosum*), winterberry (*Ilex verticillate*), red osier dogwood (*Cornus sericea*), sweet pepperbush (*Clethra alnifolia*), and other shrubs. The understory flora in both wetlands and uplands is diverse. Species noted include sensitive fern (*Onoclea sensibilis*), cinnamon fern (*Osmundastrum cinnamomeum*), interrupted fern (*Osmunda claytoniana*), bracken fern (*Pteridium*), horsetails (*Equisetum*), Canada mayflower (*Maianthemum canadense*), starflower (*Trientalis borealis*), wild sarsaparilla (*Aralia nudicaulis*), Jack in the pulpit (*Arisaema triphyllum*), bunchberry (*Cornus canadensis*), grasses, sedges (*Cyperaceae*), Sphagnum moss (*Sphagnum platyphyllum*), and other mosses. Invasive species are rare and occur mostly near the former aircraft parking stub. Invasive species noted include bush honeysuckle (*Lonicera*), multiflora rose (*Rosa multiflora*), and Japanese barberry (*Berberis thunbergii*).

Numerous depressions exist within the boundaries of the FUDS Project Area. Many appear to be vernal pools. Some depressions support dense stands of a robust sedge, species undetermined. Spotted salamander (*Ambystoma maculatum*) and wood frog (*Lithobates sylvaticus*) egg masses and/or larvae were noted in some of the depressions by USACE staff in late May 2017, May 2018, and June 2018. Wood frog egg masses were also observed in the wetland north of Hildreth Street North.

2.0 POTENTIAL SOURCE AREAS

The description of the physical setting of the Site is focused on the FUDS Project Area. The FUDS Project Area encompasses an approximately 13-acre area whose northern boundary is roughly defined by Hildreth Street North and the former tarmac; eastern boundary is just beyond an ephemeral stream that originates east of the Site; and southern and western boundaries terminate in a forested area. The current assumed boundary of the FUDS Project Area and potential source areas are shown on Figure A-2-1.

Initially, the FUDS Project Area was established to encompass two primary focus areas: the “Aviation Fuel Filter Disposal Area” and the “TCE Disposal Area”. These two areas are physically located on the east and west sides, respectively, of the FUDS Project Area. The rationale for defining these two focus areas was based on the observation of surficial debris in the Expanded Filter Disposal Area and the location of a pit where TCE may have been released within the TCE Disposal Area. The 2008 SI and 2017 Phase I RI were focused on the identification and characterization of environmental media associated with these two potential source areas.

The 2008 SI and 2017 Phase I RI, and other evidence, (i.e., the hillshade topography [Figure A-1-3]) suggest that the FUDS Project Area may more appropriately be separated, by a definitive line, into two areas: (1) the northern portion of the FUDS Project Area where historical Site operations placed fill material (the “Historical Fill Area”), and (2) the southern portion of the FUDS Project Area which, because it is not filled, includes a significant portion of wetland areas and no evidence of former DoD activities (the “Native Soil Area”). Separating the FUDS Project Area into these two areas more closely aligns with the historical activities depicted in aerial photographs (AGC, 2016) and observed during prior investigations.

The Historical Fill Area encompasses the expanded Aviation Fuel Filter Disposal Area and the TCE Disposal Area, as well as several potential source areas and areas where surficial and subsurface debris was identified during the 2008 SI and the 2017 Phase I RI. The Native Soil Area is located to the south of the Historical Fill Area and, based on groundwater elevations measured during the Phase III RI, hydrologically downgradient from the Historical Fill Area. The Historical Fill Area and Native Soil Area are described in more detail in the following subsections.

2.1 Historical Fill Area

Based on an analysis of 2-meter LiDAR data published by MEDEP and historical aerial imagery (AGC, 2016), a distinctive topographic feature is apparent to the south of the northern border of the FUDS Project Area, as shown on Figure A-1-3. Along this border, the elevation of the ground (on the airfield side) is approximately 4 to 6 feet higher than the area to the south (away from the airfield). Historical reports suggest that during construction of the Dow Military Airfield, wetlands and native tight silty soils in this area were unsuitable for construction without amendments, so a suitable construction fill material was used to cover these soils (ATC, 1945). The specific source of the fill material and the specific limits of its placement were not described in the historical reports. However, based on on-site observations, LiDAR, aerial imagery, and prior investigation data, it appears that fill material observed in the vicinity of the FUDS Project Area extends south from the main airfield, through the former FTA, and into the northern portion of the FUDS Project Area. The outline of the historical fill area (to the north) and the natural soils area to the south is evident in the hillshade imagery (USGS, 2021) shown on Figure A-1-3.

The Historical Fill Area covers approximately 3 acres of the northern portion of the FUDS Project Area. Based on soil investigations completed during the RI, the fill material in the FUDS Project Area is primarily a brown to dark brown silty medium to fine sand, is approximately 1 to 5 feet thick, and is observed above native tight silt soils.

2.1.1 Potential Source Area DU01 – North-South Anomaly

Within the eastern portion of the Historical Fill Area is a constructed taxiway extending south from the tarmac to the fighter turning spur, as depicted on Figure A-2-1. This roadway is approximately 150 feet wide by 320 feet long, and its grade is approximately 4 to 6 feet above the surrounding Native Soil Area ground. As depicted in the 1944 aerial photograph in the AGC report (AGC, 2016), the roadway allowed aircraft to access the fighter turning spur at the end of this roadway.

The geophysical survey conducted during the Phase I RI identified a nearly continuous subsurface anomalous area, approximately 150 feet long by 20 feet wide, located beneath the taxiway surface. Three test pits completed within the anomalous area revealed the presence of substantial amounts debris, primarily consisting of airplane parts and several empty 55-gallon drums (two drums had inward punctures similar to what a pickaxe or fire axe would make). A petroleum odor and sheen were observed on the turbid water within the test pits. A separate grab sample of the sheen was collected and analyzed. The debris was buried beneath the upper 2 feet of fill and extended at least 2 to 3 feet lower, potentially within the underlying tight silt. The depth to the bottom of the debris could not be observed due to the presence of turbid groundwater that rapidly infiltrated each test pit within 1 to 2 feet of the ground surface; the groundwater obscured a view of the bottom of the test pit and the vertical extent of buried debris. This anomalous area has since been designated the North-South Anomaly (N-S Anomaly) area.

Evidence of charring on some of the metallic debris encountered in the N-S Anomaly was somewhat inconclusive, given the visual similarities between charring and rusted black metal. However, in other cases, there was clear evidence of black soot/staining as well as deformed (apparently from melting) aluminum and/or aluminum that had been exposed to high heat, as evidenced by a blue crystalline residue. Also, at least one aircraft component had clear manufacturer's markings that were used to identify the component as a specific actuator for the landing gear doors for a B-59 and is likely a specific aircraft which made an emergency landing at the Dow AFB in 1959 after a mid-air collision with a B-52. This chronology suggests the debris is associated with DoD activity.

Review of historical aerial photographs in the AGC report did not identify evidence of debris burial in this roadway (AGC, 2016). However, it is important to note that the AGC Report (or any historical aerial photographic survey) cannot provide a fully comprehensive understanding of all activities that occurred during the use of this property, therefore the lack of evidence in the photographic analysis for the origin of the N-S Anomaly does not rule out its association with DoD operations. To the contrary, the abundance of DoD activity in this area suggests that the anomaly was indeed associated with historical DoD operations in this area.

2.1.2 Potential Source Area DU02 – Suspected TCE Disposal Pit

The Suspected TCE Disposal Pit covers an approximately 1-acre area and is located 100 feet southeast from the paved runway between the storm drain line and Native soil/historical fill boundary. This component of the FUDS Project Area is situated at the approximate geographical coordinates of 44°48'17.25" N, 68°49'56.62" W.

Based on the LiDAR imagery, Phase I RI data, and the AGC report, the Suspected TCE Disposal Pit appears to be a constructed feature resembling an approximately 350-foot long and 115-foot-wide roadway connecting the tarmac to the Fighter Parking Stub. Based on the Phase I surficial soil samples and test pits, the roadway appeared to be constructed of fill soil placed on top of native soil and wetlands. Based on the AGC report and the Phase I findings, historical waste disposal activities in this portion of the FUDS Project Area appeared to occur primary within the 1-acre Suspected TCE Disposal Pit boundary.

The Suspected TCE Disposal Pit encompasses several important features that were investigated during the Phase I RI including the TCE burial pit, the northern earthen mound, and the eastern fuel filter mound. Each of these features is described in the following subsections.

TCE Burial Pit. The USAF issued a Notice of Contamination (NOC) letter dated April 1, 1967, (USAF, 1967) which was part of the property transfer package and identified areas used for disposal purposes directly adjacent to former fighter dispersal parking stubs. The NOC letter described the anticipated disposal of TCE to the west of the Fighter Parking Stub. The NOC letter stated, "The Trichloroethylene is or will be buried in a small pit, not over 30 feet by 10 feet by 6 feet deep. It is estimated that by base closure in June 1968 approximately 1,050 gallons will be buried in the pit." No additional information was provided regarding where, or in what manner (e.g., within drums, dumped on the ground, discharged to a sump or trench) the TCE was to be disposed of. The timeframe of the disposal in this location is interpreted based on the Historic Air Photo Analysis and is believed to have occurred within a brief period (approximately 1-2 years near the end of USAF ownership).

The AGC report presented an aerial image dated 1960, pre-dating the NOC letter by 7 years. The 1960 image shows the presence of a "Pit with vegetation approximately 20'x15'" (AGC, 2016). Additionally, the AGC report clearly distinguishes the "Future (1968) TCE Burial" location separately from the "pit with vegetation." It may be mere coincidence that the description of the "Future (1968) TCE Burial" area is similar to the dimensions of the "pit with vegetation". Therefore, we cannot be certain where the "Future (1968) TCE Burial" occurred; it may have been at the location depicted on the AGC report or within the "pit with vegetation."

Northern Earthen Mound. The former earthen northern mound was located along the northern boundary of the TCE Disposal Area. The Phase I RI determined the mound was approximately 125 feet long, 20 to 40 feet wide, and 3 to 5 feet high and had small to medium diameter (1 to 6 inches) deciduous trees (e.g., white birch) and shrubs growing on its surface. Portions of approximately 20 to 30 moss-covered fuel filters protruding from a small area on the southern side of the mound were encountered and removed during the Phase I (USACE, 2008). The origin and purpose of the mound is unknown; it is not described or mentioned or identified in any available historical documents.

As part of the Phase I RI, the mound soil was sampled, analyzed for waste profile characteristics, placed in roll-off containers using an excavator, and then transported off-site as non-hazardous waste, under manifest, to a nearby landfill. During removal, many hundreds of discarded fuel filters were discovered buried within the southwestern

portion of the mound. These fuel filters were also characterized, removed, and disposed of off-site during the Phase I RI program.

Additionally, following removal of the mound, a catch-basin was discovered beneath the eastern end of the former mound. Additional Site history research determined the catch-basin was part of the original Dow AFB construction of an extensive underground stormwater system network. The network is still in place, but its condition is unknown. The catch-basin at the FUDS Project Area is near the western end of a drainage line that flows to the northeast and connects to other drainage lines, which eventually discharge to outfalls located on the northern side of the BIA airfield.

Eastern Fuel Filter Mound. The former Eastern Fuel Filter Mound was approximately 30 feet long, 10 feet wide, and 3 feet high. It was located just beyond the eastern boundary of the Fighter Parking Stub (concrete pad) and contained hundreds of fuel filters, which were subsequently characterized, removed, and disposed of off-site during the Phase I RI program. Some of these filters had white plastic end caps that were labeled with numbers later presumed to be dates. Some of the dates were from 1981, which suggested some of these filters were placed in this mound after the DoD transferred the property to the City of Bangor.

Chemical analysis of the fuel filters and of the underlying surficial soil suggested that the fuel filters may not have contaminated the underlying surficial soil. However, it is possible that chemicals could have been present in fuel filters at the time the filters were disposed of, and that these chemicals subsequently leached into the ground, below the surficial soils, such that the current chemical profile of the filters was not representative of their former chemical profile.

2.1.3 Potential Source Area DU03 – Man-Made Depression

A man-made depression with surficial metallic debris is located near the central northern boundary of the Historical Fill Area (Figure A-2-1). This man-made depression area was first identified by the PDT during a site visit in May 2017 and was not defined or identified in the AGC report. During the Phase I RI, the vegetation from this area was cleared to reveal a man-made depression containing a 20-foot long by 15-foot wide partially buried airplane fuselage and wing assembly, along with numerous empty red 5-gallon metallic containers labeled as "Foam Liquid 5" (USACE, 2018). This area has since been defined as the "Man-Made Depression".

However, it is noted that the 1994 SI report included the following information under "*3.1.3 POL* [Petroleum, Oil, Lubricant] *Area and Dump Site*" (USACE, 1994):

> *"This area is in the vicinity of the [former] FTA next to the pavement, part of it is an open field and the remainder is thick overgrown woods. The historical survey by CENED found this area was used for storage of 55-gallon drums of JP-4 fuel. Another employee suggested that this site may be the location of buried aircraft. Both men [organization or names not provided] seemed quite sure that this site was not part of the [former] FTA. During the site visit [in] March 1990 by CENED, some discarded filters and rusted empty drum [sic] were seen in the woods."*

The POL area was reportedly saturated with petroleum products and used for storage of 55-gallon waste drums of JP-4 fuel (USACE, 1994; AGC, 2016). However, during an earlier field investigation in 1991 (GZA, 1991), the "POL Area and Dump Site" was observed to be:

> *"…marked with a sign indicating 'No Fuel Dumping Without Approval by the Fire Department'. It was observed to be covered with to 2-foot thick growth of weedy open field vegetation. Visual surficial evidence of the petroleum stained soils referenced in CENED documents was not apparent but may have been obscured by the vegetation.*
>
> *Remains of demolished automobile were observed at the edge of pavement adjacent to the POL Area Other miscellaneous debris including what appeared to be aircraft parts and white fibrous material possibly asbestos-containing were observed on the ground surface within the area Atmospheric monitoring did not suggest the presence of volatile organic vapors."*

Therefore, it is somewhat unclear from historical reports whether the man-made depression is geographically distinct from the POL area (Section 2.1.6), or if the two areas are one and the same. For the purposes of the Phase III RI investigation, the two areas were considered separate potential source areas.

2.1.4 Potential Source Area DU04 – Southern Slope

During the 2008 SI, partially buried and buried debris was unearthed in the southern portion of the expanded Aviation Fuel Filter Disposal Area. Materials were excavated, removed from the Site, and disposed of off-site. Debris included two intact drums characterized as hazardous waste, two intact 5-gallon containers categorized as non-hazardous, approximately 105 fuel filters contained in five 55-gallon drums disposed of as benzene-containing waste, and other miscellaneous metallic debris and refuse. Most of this debris was present on or within the slope of the Fighter Parking Stub. Buried debris was present within the fill to the top of the underlying native and undisturbed tight silt. This area has since been defined as the "Southern Slope" (Figure A-2-1).

The 2008 SI included the collection of surface soil, shallow subsurface soil, sediment, surface water samples; installation and sampling of six shallow overburden groundwater monitoring wells; surficial geophysics survey; and surficial debris removal. None of the overburden groundwater samples collected during the 2008 SI contained volatile organic compounds (VOCs), SVOCs, polychlorinated biphenyls (PCBs), or pesticides above human health risk-based screening levels. In soils and sediment, constituents were reported above risk-based screening criteria. Neither TCE nor its degradation products were detected in this area.

Surface geophysical data obtained during the 2008 SI indicated the presence of additional buried metallic materials. During the Phase I RI, debris was unearthed in the southern portion of the expanded Aviation Fuel Filter Disposal Area. Debris included numerous empty 55-gallon drums, creosote-coated utility poles, railroad ties, metal guardrails, and other miscellaneous metallic debris and refuse. Numerous empty metal 5-gallon-sized cans labeled "Foam Liquid 5" were present within the buried airplane area. These empty cans were removed and disposed offsite during the 2017 investigation. Most of this debris was present on or within the slope of the Fighter Parking Stub. Buried debris was present within the fill to the top of the underlying native and undisturbed tight silt.

2.1.5 Potential Source Area DU05 – Hildreth Street Debris Field

The Hildreth Street Debris Field is located on the western side of Hildreth Street North and is a part of the property that was reportedly used as a fire training area. On the western side of North Hildreth Avenue, across from the Southern Slope, was a disposal area observed with FUDS-related materials. Specifically, the disposal area contained used fuel filters, of the type used for the fuel lines serving aircraft.

2.1.6 Potential Source Area DU06 – POL Source Area

As mentioned above in the description of the Man-Made Depression, an area of former fuel storage and petroleum-stained soil was reported in the northern portion of the FUDS Project Area at the edge of the pavement. This area of unknown size or dimension is referred to as the "POL Source Area" and was investigated during the Phase III RI.

2.1.7 Underground Utility Corridor

The review of historical utility plans and interpretation of surface geophysics identified an underground drainage line that runs west to east through the northern portion of the FUDS Project Area (Figure A-2-1). The subsurface utility corridor could also act as a preferential pathway for potential contaminant migration. The location of the corridor was found during the geophysical survey work, manholes can be observed in the field, and it is reasonably well documented on BIA plans.

2.2 Native Soil Area

The portion of the FUDS Project Area to the south of the historical fill/native soil delineation line (Downgradient Native Soil Area) was divided into two decision units for characterization purposes in the Phase III RI. The Downgradient Native Soil Area is the unfilled portion of the FUDS Project Area that is potentially impacted by releases from the seven potential disposal areas identified within the Historical Fill Area. For characterization purposes, two separate DUs were established to assess the nature and extent of contamination in upland (DU07) and wetland (DU08) soils. The Native Soil Background Area (DU09) is located beyond the FUDS Project Area, outside of the influence of the Site, and was chosen as representative of local soil types (for metals) and potentially influenced by off-Site sources of anthropogenic background (especially for polycyclic aromatic hydrocarbons [PAHs]). These areas are discussed further below.

2.2.1 DU07 and DU08 Downgradient Native Soil Areas

To the south of the Historical Fill Area is the Downgradient Native Soil Area. The northern boundary of the Downgradient Native Soil Area is drawn based on the evidence of fill in the hillshade image (Figure A-1-3) and begins where the Historical Fill Area ends, where fill material or other evidence of former DoD activities are absent. Although sparse miscellaneous surficial debris (metal scraps, empty drums) was observed in the northern portion of the Downgradient Native Soil Area, the density and type of debris suggests that the Downgradient Native Soil Area was not a primary debris disposal area, and that the debris was haphazardly placed here (much of this debris was identified and removed during the 2008 SI and the 2017 Phase I RI (USACE, 2007; USACE, 2017). Based on the earliest available aerial photograph dated 1944 (AGC, 2016), to present day observations, the Downgradient Native Soil Area was heavily wooded and dominated by wetlands, further suggesting that large-scale waste disposal activities, which likely would have required clearing and would be evident on historical aerial photographs, probably did not occur in this area. This premise is further supported by the Phase I RI geophysical survey data that did not identify major subsurface anomalies in the Downgradient Native Soil Area. The Downgradient Native Soil Area is further divided into upland soil areas (DU07) and wetland soil areas (DU08; Figure A-2-1).

2.2.2 DU-09 Native Soil Background Areas

The native soils beyond the current boundaries of the FUDS Project Area are considered to represent natural conditions that have not been impacted by DoD operations within the FUDS Project Area (DU09). Impacts to these locations are considered unlikely due to:

- Historical imagery review (AGC, 2016);
- Distal location relative potential source areas; and
- The unnamed intermittent stream providing a likely surface drainage and groundwater divide between DU-09 areas and the FUDS Project Area.

Native Soil Background Areas provide an indication of naturally occurring and anthropogenic background levels of these constituents.

3.0 POTENTIAL OFF-SITE SOURCES

The Site and surrounding area are known to be developed on an area of urban and industrial fill. In addition to the FUDS Project Area, multiple other industrial activities are near the Site that store, use, and dispose of various hazardous materials. A preliminary understanding of the abutting properties and their uses may be helpful in refining the CSM. Preliminary information for nearby sites is discussed below.

3.1 Former Fire Training Area (FTA) Debris Field

The former FTA encompasses approximately 33 acres to the north of and adjacent to the FUDS Project Area, as shown on Figure A-1-2. The FTA is not included as a part of the Dow FUDS Project Area. According to the Dow

Military Airfield Document Review, fire pits at the former FTA were excavated and moved often from the 1940s through transfer in 1968 (AGC, 2016).

It has been reported that numerous types of materials including petroleum products, tetraethyl lead aviation fuel filters, aqueous film forming foam (AFFF), aircraft and aircraft parts, solvents, paints, various debris, and other materials were either disposed of or used in fire response training at the FTA and vicinity (GZA, 1994; MEDEP, 2021). Based on historical information, flammable materials including fuels and cleaning solvents that were generated by the USAF, the Maine Air National Guard, the City of Bangor, and other groups were transported to the FTA and dumped in several areas (USACE, 1993). These areas were used for joint fire training exercises with the MEANG and the Bangor Airport Fire Department. Although much of these fluids were burned, some of them, along with fire-fighting fluids, reportedly ran off along the surface into ditches and drains, seeped into the soil, adsorbed onto the soil, dissolved into the groundwater (MEDEP, 2021).

A nearby well installed 2013 by Sheridan Well for the MEANG tested positive for PFAS when initially sampled by MEANG in April 2016. Detection of PFAS led the Army National Guard Bureau to sample on a quarterly basis. Samples collected from the MEANG Simulated Training Area have regularly contained PFAS below established MEDEP Maximum Exposure Guidelines (MEDEP, 2021).

It is likely that the primary migration mechanisms from the former FTA would be through overland surface run-off, leaching into soil, and transport in groundwater southeast towards the FUDS Project Area. The subsurface stormwater catch basin network, which has a segment between the FTA and the FUDS Project Area, could also act as a preferential migration pathway.

3.2 Former Drum Burial Area

The former drum burial area is located approximately 1,000 feet east of the FUDS Project Area and is managed separately from the Dow Disposal Site. Surface water from the former drum disposal area flows to the west and southwest toward the FUDS Project Area (Figure A-1-2).

The drum burial area was discovered on August 7, 1989, when Maine Army National Guard personnel were excavating gravel for road construction. Workers accidentally punctured two buried 18-gallon drums during excavation. One of the drums was marked “DOW 1,1,1-TRI”, and the other drum was unmarked. MEDEP response personnel sampled the drum contents; laboratory analyses indicated that samples from each drum contained 1,1,1-trichloroethane (26,000 ppm and 390,000 ppm). In 1990, USACE/Omaha Division began a removal action that was overseen by MEDEP. In total, USACE recovered nine 55-gallon drums, noted as being “very old, crushed and rusted through, containing little or no liquid.” As part of the removal action, approximately 40 to 45 cubic yards of soil were removed from the area. Data were reported for only one soil sample, which was collected at 10 feet below ground surface (bgs) by MEDEP (1,1,1-TCA at 3.4 mg/kg) (Watermark, 2006).

It is possible that surface water from the former drum burial area could have migrated to the un-named intermittent stream channel present at the FUDS Project Area. Sample data collected during the Phase II RI (USACE, 2018) indicated presence of PAHs, but not VOCs, in sediment and surface water above screening levels in and near the intermittent stream channel segments leading from the Former Drum Burial Area to the FUDS Project Area.

3.3 Other Potential Off-Site Sources

Potential off-site point and non-point sources could also be contributing to environmental conditions on the Site. These off-site sources may include:

- Airborne dispersion from off-site sources.
- Municipal or urban sources.
- Industrial sources.

- Commercial sources.
- Naturally occurring environmental sources.
- BIA-related aircraft-sources.

Potential off-site pollutants from municipal or urban activities can contribute as non-point sources of contamination to a site. Examples of potential municipal or urban sources can include stormwater runoff, National Pollutant Discharge Elimination System (NPDES)-permitted and non-permitted discharges to nearby water bodies, or particulate fallout from vehicular or airplane traffic. Based on the relative remoteness of the FUDS Project Area to municipal and urban operations, the potential of off-site pollutants from municipal or urban activities adversely affecting the quality of environmental media at the FUDS Project Area is expected to be limited.

The proximity of the main runway at BIA creates the potential for municipal sources of constituents to the FUDS Project Area via surface water runoff and wind dispersion. Several commercial entities are located on Hildreth Street North as shown on Figure A-1-2. The distance of these businesses, which include a construction company, a pump equipment firm, and a transportation company, range from 0.25 to 0.5 miles to the west-southwest from the FUDS Project Area. In addition, the US Army Reserve Center and the Maine Army National Guard Training facilities are located approximately 0.25 miles to the west-northwest of the FUDS Project Area.

Naturally occurring elements may also exceed screening levels due to the regional geology or from anthropogenic sources. Similarly, concentrations of some organic compounds (particularly PAHs) may be attributable to regional anthropogenic sources distributed via surface water run off and/or wind dispersion. Except for naturally occurring background, discussed below, the Phase III RI did not explore off-site sources of potential COIs.

4.0 NATURE AND EXTENT OF CONTAMINATION

The current understanding of the nature and extent of contamination is discussed in the following subsections. As more data are available, the CSM will be updated, as appropriate, in forthcoming reports. The CSM is based on:

- Known use of the Site as a military disposal area.
- Identification and removal of disposal areas.
- Evidence that the developed area, including the former disposal areas, are geographically limited to the filled area located on the northern portion of the Site.
- Evidence to indicate that potential source removals have been effective and that downgradient migration, if occurring from potential source areas, is on a relatively small scale.

COIs present in source areas would migrate primarily via overland flow or leach into groundwater. The heavier COIs that are most often absorbed on to fine-grained particulate are most likely to be transported via overland flow and eventually captured in wetland areas or further transported via surface water and suspended sediment. Non-aqueous phase liquid (LNAPL or DNAPL), if released on the Site, would likely travel with groundwater, or over the impermeable subsurface materials (Presumpscot formation or bedrock). Phase II RI investigations of sediment and surface water provided data with low concentrations relative to screening levels, except for select PAHs, with similar COI concentrations upstream of the project area as within the FUDS Project Area. This suggests that surface water migration from FUDS Project Area potential source areas is a relatively minor concern.

4.1 Site-Related Constituents of Interest

A preliminary list of site-related COIs at the FUDS Project Area was developed using information obtained from prior investigations at and in proximity to the FUDS Project Area and based on the potential sources listed in Section 2.0. The COI list includes:

- VOCs, including chlorinated VOCs

- PAHs
- PCBs
- Metals

This COI list has been refined to address those COIs that were identified in previous investigations or known to be associated with the types of waste materials observed on the Site. The COI list may be updated to include additional chemical groups if new information about sources or detected chemicals is obtained during investigations. The COI list will be further refined through the CERCLA risk assessment process to define the chemicals of potential concern (COPCs) and, if risks are outside of United States Environmental Protection Agency (EPA) target risk ranges, the chemicals of concern (COCs).

Previous investigations found and removed multiple empty, damaged, and intact containers of hazardous materials. The Phase III RI did not find containers in the subsurface fill or evidence of leaking or corroding containers based on the groundwater data collected during the groundwater investigation. Upcoming groundwater sampling events will further inform this observation.

4.1.1 Site Surficial Soils

During Phase III RI activities, surficial soil samples (<1 foot bgs) were collected using ISM. Triplicate ISM samples were collected from each of the potential source areas (DU01 through DU06) and submitted for laboratory analysis for Site COIs. Downgradient native soil areas (DU07 and DU08) and native soil background areas (DU09) were further divided into Sampling Units (SUs) and an ISM sample was collect from each SU. DU07 and DU08 ISM samples were analyzed for all Site COIs, while DU09 samples were analyzed for metals and PAHs only. Surficial soil analytical results are compared to both March 2018 EPA Region IV Ecological Risk Screening Levels and 2022 EPA Regional Screening Levels for Resident Soil (Total Hazard Quotient 1.0 [THQ 1.0]) due to ecological and human health risk receptors for shallow surficial soils.

Volatile Organic Compounds. Detections of VOCs in surface soil ISM samples were limited. The limited number and magnitude of VOC detections do not indicate a release of VOCs occurred within the FUDS Project Area. There were no chlorinated VOCs detected above screening levels in any of the ISM samples collected during the Phase III RI. These findings correlated with a previous Watermark (2013) investigation of a subset of the FUDS Project Area.

Polycyclic Aromatic Hydrocarbons. PAH concentrations in ISM samples exceed RLs in all six potential source areas (DU01 through DU06). ISM sampling results indicated PAH concentrations are of a similar magnitude throughout each of the six source areas. This pattern, in addition to Phase II RI sediment sample results from select locations upstream of the FUDs Project Area exceeding SLs, suggest the fill material may be a primary source of COIs rather than the various different types of disposal that occurred in these areas.

Concentrations of PAHs in soil generally decreased in the downgradient upland soil areas: in DU07-SU01 there were eight PAHs exceeding SLs, in DU07-SU02 there were only five PAHs exceeding SLs, and there were no PAHs detected in surficial soil samples collected from DU07-SU03 through DU07-SU07 that exceeded SLs. In the downgradient wetland soil areas, there were PAHs exceeding SLs in soil samples collected from DU08-SU01 through DU08-SU03, but no exceedances in samples collected from DU08-SU04 through DU08-SU07. There were no PAHs detected above SLs in the background data set (DU09-SU01 through DU09-SU07). Previous grab surface sediment sampling by Watermark (2013), in the DU-04 and DU-05 vicinities, similarly identified significant PAH impacts within potential source area surface soil sampling locations, PAH impacts above SLs but at lower concentrations in upgradient sampled fill materials, and limited PAH impacts above SLs in downgradient surface sediments.

Since Site work to-date has focused solely on the disposal areas and surface water network, the extent of PAH impacts to surficial soils has not been delineated throughout the filled portion of the FUDS Project Area, but is presumed to include the entire filled portion of the FUDS Project Area based on the presence of fill.

Polychlorinated Biphenyls. PCBs were detected in several ISM samples collected during the Phase I RI and the 2008 SI. Detections were sporadic and were in concentrations that were less than 10 mg/kg. Only one surficial soil sample, DU03-A, reported a PCB detection (Aroclor-1254) above SLs. PCBs were not detected in DU03 triplicate samples DU03-B and DU03-C, indicating a limited extent of PCBs within DU03 surficial soils. There was one additional PCB detection (Aroclor-1260) above laboratory reporting limits (but below the SL) in the sample collected from DU07-SU06C but not the DU07-SU06A or DU07-SU06B triplicate samples. The extent of PCB contamination in DU03 was identified as a potential data gap in Data Gap Report No. 1. Watermark (2013) similarly identified sporadic PCB detections within the project area above SLs within DU-04. PCBs were not detected in the DU-04 Phase I RI triplicate samples.

Metals. The concentrations of twelve metals were detected above SLs (which are often ecological risk-based SLs) in at least one surface soil ISM sample in DU01 through DU06. Only arsenic was detected above the human health RSL for resident soil. Hexavalent chromium was detected above laboratory reporting limits, but below its SL, in at least one of the triplicate soil samples collected from DU01 through DU06.

Only seven metals were detected above SLs in surface soil ISM samples collected from DU07 (downgradient upland soil) and DU08 (downgradient wetland soil). These same metals, plus manganese, were detected at least once above SLs in the background decision unit (DU09). Similarly, Watermark (2013) identified widespread metals detections above SLs in surface sediment samples, including in distal background sample locations, indicating numerous metals SLs may be the result of natural soil conditions and/or the historical BIA fill.

4.1.2 Site Subsurface Soils

Site shallow overburden subsurface samples were collected during the Phase III RI via DPT in DU01 through DU06 (see Figure 4-1 of Data Gap Report No. 1) to determine the vertical extent of COIs above screening levels. Direct push sampling was completed to 10 feet-bgs, with continuous sample retrieval. Samples were then composited into a depth interval representative of either fill or Presumpscot formation to determine if contaminants had migrated from fill to underlying native soils. Direct push samples were analyzed for all Site COIs. Cross-sections depicting subsurface conditions are presented on Figures 6-3 through 6-6 of Data Gap Report No. 2.

Site deep overburden/bedrock interface subsurface soil samples were collected during the Phase III RI via sonic drilling and sample retrieval of the 2 feet of Presumpscot formation or till present immediately above bedrock. Sonic drilling soil samples were analyzed for all Site COIs except for PCBs due to their limited extent at the Site. Sonic boring locations were completed as monitoring wells MW-301 through MW-312R.

DPT and sonic drilling locations are presented on Figure 4-1 of Data Gap Report No. 1. Subsurface cross sections are shown as Figure 6-3 through 6-6 of Data Gap Report No. 2. Subsurface soil analytical data was compared to the 2022 EPA Regional Screening Levels for Resident Soil (THQ 1.0) due to potential construction worker and recreational trail user risk receptors at the Site. Subsurface soil samples were not compared to ecological risk-based SLs since ecological receptors are typically not exposed to subsurface soil.

Volatile Organic Compounds. Consistent with ISM sampling results, and previous subsurface sampling efforts, (Watermark 2013), VOCs were not detected above SLs in subsurface soils, indicating VOCs in soils are not a significant risk driver within the FUDS Project Area.

Polycyclic Aromatic Hydrocarbons. PAH detections in subsurface samples from DU01, DU03, DU05, and DU06 were above SLs. With the exception of DU05-SS01 in the 5.5 to 10 feet bgs interval and at DU01-SS04 in the 5 to 10 feet bgs interval, PAH detections above SLs were confined to historical fill and were not present in till samples.

PAH detections in sonic boring samples were constrained to SB-303 at 11 to 13 feet bgs, SB-306 at 20 to 21.5 feet bgs and SB-311 at 12 to 14 feet bgs. These detections represent the shallowest sonic boring samples within the extent of historical fill (i.e., most likely to be impacted by historical fill), and all PAH detections in these samples were below SLs. Sonic boring samples collected at SB/MW-304 and SB/MW-306, near DU05-SS01 and DU01-SS04 respectively, indicate PAH concentrations above SLs are not present at the till/bedrock interface. Previous subsurface sampling results for DU-04 and DU-05, did not identify PAH detections above SLs at depths greater than six feet bgs (Watermark 2013), and indicated the presence of higher concentration PAH detections in a 1977 aircraft fire training area side gradient from the FUDS Project Area (GZA 1993). This data indicates historical fill, within and north of the FUDS Project Area, as a PAH source area where PAH SL exceedances did not migrate from historical fill to underlying native soils, except for at DU05-SS01 and DU01-SS04 which may require future delineation as shown in Figures 6-3 and 6-6.

Polychlorinated Biphenyls. There were only two PCB detections above laboratory reporting limits in the subsurface soil samples collected during the Phase III RI. Neither detection was above the human health risk-based SL, indicating PCB impacts above SLs are not present in the FUDS Project Area subsurface.

Metals. The concentrations of three metals (arsenic, cadmium, and lead) were detected above the human health risk-based SLs in at least one subsurface soil sample. Similar to surface soils, arsenic was detected above the human health residential RSL (TR = 1E-06, THQ = 1.0) in each subsurface soil sample. Arsenic detection values were consistent across sample locations and depth intervals, and similar to arsenic in a subsurface samples collected from the Fire Training Area by Watermark (2013) and GZA (1993), suggesting arsenic detections may be from natural sources. Hexavalent chromium was detected above its SL in shallow subsurface soil samples collected from DU01-SS01, DU01-SS02, DU04-SS02, DU04-SS03, DU04-SS04, DU04-SS06, DU05-SS03, DU05-SS07, DU06-SS02, and DU06-SS03. Cadmium was detected above SLs in the DU04-SS01 1-to-5-feet bgs sample, and in the DU01-SS04 1-to-5-feet bgs sample. Only one sample, DU01-SS04 from 1 to 5 feet bgs, contained lead above the human health residential RSL. Chromium detections were of similar magnitude to those reported by Watermark (2013) and GZA (1993), in both FUDS Project Area samples and in samples collected north of the FUDS Project Area, potentially indicating chromium impacts may be attributable to BAI fill and not FUDS Project Area fuel filter disposal activities. All detections above SLs for lead, cadmium, and hexavalent chromium were from samples collected in fill, indicating a lack of metals impacts to Site native soils.

4.1.3 Site Groundwater

Groundwater samples were collected from Site monitoring wells (see Figures A-1-6a through A-1-6c for monitoring well locations) in April, June, and September 2024 and analyzed for VOCs, PAHs, and both total and dissolved metals. Sample results were compared to the 2022 EPA Human Health RSLs for tap water (TR=1E-06, THQ=1.0) and EPA Maximum Contaminant Levels (MCLs) for drinking water.

Volatile Organic Compounds.

During the first round of the Phase III groundwater sampling, there were groundwater detections of nine VOCs including BTEX compound Benzene. During the second round of the Phase III groundwater sampling, there were groundwater detections of ten VOCs including chloroform, and BTEX compound Benzene. Groundwater samples were taken from the screened interval five feet within bedrock and five above bedrock within the till layer.

For both April and June 2024 groundwater sampling events, TCE was detected in one groundwater sample at a concentration slightly above its SL of 0.013 ug/L. Vinyl chloride was detected in three groundwater samples at a concentration slightly above its SL of 1.0 ug/L. In the June 2024 sampling event, Chloroform was detected in one groundwater sampling at a concentration slightly above its SL of 0.22 ug/L. Detection limits for Chloroform are normally above its SL. Previously collected Watermark (2018) data did not identify the presence of VOCs in groundwater concentrations above laboratory reporting limits within FUDS Project Area overburden wells. GZA (1993) data detected TCE concentrations above the EPA MCL in an 1977 aircraft fire training area (31 µg/L) and

an woodchip pile/former (8.9 µg/L) north of the FUDS Project Area, but not within the FUDS Project Area. GZA (1993) further identified a chloroform detection of 12 µg/L in MW-3.

MW-303 and MW-311 are located proximally south of the 1977 aircraft fire training area, are at the top of a bedrock slope and are near the storm drain line, utility line, and the portion of the unnamed intermittent stream draining from the approximate location of former TCE drums. MW-309 is located at a bedrock elevation low.

Detected chloroform concentration differences between GZA and Phase III data indicate a largely naturally attenuating source. The spatial pattern of chlorinated solvent detections in groundwater indicate an upgradient source with DNAPL-like behavior transported downslope along the bedrock-overburden interface (southwest from MW-303 and MW-311 to MW-306) instead of down the groundwater elevation gradient (southeast). However, the low concentrations detected in groundwater samples do not suggest the presence or persistence of DNAPL in groundwater of the FUDS Project Area, and the high ratio of VC to TCE suggests a largely naturally attenuated, or distally upgradient source area. Further investigation activities to the north and east of MW-303 and MW-311, particularly within the vicinity of the 1977 aircraft fire training area, and a more temporally comprehensive groundwater dataset is needed to fully understand chlorinated solvent detections in these monitoring wells. An expanded water level monitoring network is required to fully understand the horizontal gradients between BAI and the FUDS Project area and determine groundwater flow direction for BAI fill area contaminant migration. Groundwater analytical data collected September 2024 (not reported at the time of this writing) will inform this data gap.

Polycyclic Aromatic Hydrocarbons. Seven PAH compounds were detected above the EPA RSLs for Resident Tap Water in the water sample collected from SB-203R, adjacent to the drain line. However, PAHs were not detected above SLs in overburden monitoring wells, consistent with both previous Watermark (2018) data and with PAH impacts being largely confined to fill, with limited vertical migration through native materials to the groundwater.

Metals. Arsenic and manganese detections exceeded SLs in multiple groundwater samples for both groundwater sampling events and were largely consistent for both total and dissolved metals samples taken from the same well. Arsenic and manganese are naturally occurring metals in groundwater, however arsenic and manganese detections did not exceed screening levels in MW-3, MW-5, MW-8, MW-20, MW-23, MW-301 and MW-304 during the April 2024 event, and MW-5, MW-301, and MW-304 during the June 2024 event. These wells are all upgradient of monitoring wells with samples exceeding SLs, a spatial pattern consistent with previous (Watermark 2018) groundwater monitoring data. Phase III RI Arsenic and manganese detections above SLs had no clear correlation with field measured pH, ORP or DO values recorded during sampling activities indicating these SLs are unlikely to be due to localized groundwater chemistry fluctuations mobilizing metals from natural soils.

Reported manganese and arsenic concentrations generally trend higher with increased upgradient groundwater travel path length within a historic fill area, such as in groundwater samples from the northwesternmost portion of the Site. GZA (1993) reported arsenic concentrations higher in samples collected more centrally within the BAI Fill, north of the FUDS Project Area, than within the FUDS Project Area itself. Therefore, it is possible groundwater becomes increasingly impacted by these metals as it flows under the FUDS Project Area and precipitation leaches from overlying fill to groundwater. However, the temporal extent of arsenic and manganese detections above SLs have not been established and the extents of these SLs are unbounded to the north, east, and south of the FUDS Project Area. A longer-term and more spatially extensive groundwater monitoring and water level dataset is needed to determine if potential source areas or BIA fill are impacting groundwater arsenic and manganese concentrations at the Site.

4.1.4 Site Surface Water

An extensive surface water sampling effort was completed in Spring 2018 as part of Phase II RI activities targeting the network of streams within and upgradient from the FUDS Project Area. Surface water samples were analyzed for VOCs, PAHs, PCBs, and metals and compared to EPA Region 4 Freshwater Chronic Screening Levels.

Volatile Organic Compounds. VOCs were not detected in surface water samples above SLs, consistent with a more limited Watermark sampling effort (2013), and with other Site data which do not support the presence of a VOC release within the FUDS Project Area boundaries.

Polycyclic Aromatic Hydrocarbons. PAHs were detected above SLs in 9 of 11 vernal pool samples and 7 of 26 stream channel samples. PAHs exceeding SLs were detected in samples upgradient of the FUDS Project Area in both the east and west branches of the unnamed intermittent stream. Phase II RI stream channel sample PAH detections were of similar magnitude as reported by Watermark (2013) but varied in analyte detected and spatial distribution. These upgradient PAH detections suggest PAH impacts extend beyond the FUDS Project Area and indicate upgradient releases or the widespread presence of PAH in fill used during construction of BIA. Variability with Watermark (2013) detections is likely representative of seasonal variation and active transport processes in a dynamic fluvial environment.

Polychlorinated Biphenyls. PCBs were not detected in any surface water samples collected during Phase II RI activities, consistent with Watermark (2013) data.

Metals. Metals samples were analyzed for 23 metals and detections exceeding SLs were present in every primary surface water sample collected during Phase II and previous Watermark (2013) investigation activities. Samples collected from the west branch of the unnamed intermittent stream (RV001 through RV003), upgradient from the FUDS Project Area, contained the highest metals concentrations and exceedances of SLs for 14 of the 23 metals. However, Watermark (2013) data from the west branch of the intermittent stream showed increasing metals concentration from a location upgradient of the FUDS Project Area to the immediate DU-04 vicinity and somewhat lower concentrations downstream.

Notably Phase II sample data was collected in spring and may be representative of initial metals entrainment from source areas into the stream channel bed during high water events, while Watermark (2013) data was collected in late mid fall and may be more representative of lower discharge events and areas of metals deposition. This suggests 1) a potential upgradient source of metals to Site surface water and groundwater outside of the FUDS Project Area; 2) possible metals impacts to surface water from FUDS Project Area fuel filter disposal areas; and 3) potential seasonal and/or temporal variability not yet captured in the current data set.

The sample collected from the east branch of the intermittent stream, upgradient of the FUDS Project Area, contained total or dissolved exceedances of SLs for 4 of 23 metals, similar to soil samples collected from the FUDS Project Area, which contained metals exceeding SLs for between two and seven metals. Surface water samples collected downgradient of the FUDS Project Area contained between one and three metals above SLs.

No consistent spatial pattern of increasing metals in surface water as it traverses the FUDS Project Area was identified, and exceedances of metals SLs in upgradient surface water samples indicate likely upgradient sources impacting FUDS Project Area surface water, and with possible contribution from fill or upstream sediment deposition within the FUDS Project Area observed in the Watermark (2013) dataset.

4.1.5 Drain Line Subsurface Soil Analytical Data

A comparison of drain line subsurface soil analytical data to risk-based screening levels is presented in Table 7-3 of Data Gap Report 1 (USACE, 2025). A brief discussion of the drain line subsurface soil analytical results is presented in this section.

Volatile Organic Compounds. Detections of VOCs in discrete soil samples collected during the drain line investigation were limited. There were no VOCs detected above SLs in any of the subsurface samples collected during the drain line investigation. 4-methyl-2-pentanone was detected in 3 of the 7 samples at concentrations well below SLs. Of note, chlorinated solvents were not detected in soil samples collected from the drain line.

Polycyclic Aromatic Hydrocarbons. Three soil samples (SB-201-0405, SB-203R-0204, and SB-203R-0405) contained PAH concentrations that were detected above SLs. A total of five different PAHs were detected above SLs between the three samples. The highest concentrations were observed in the samples collected from SB-203R, which was located directly south of the catch basin. A visible sheen was observed while collecting these samples.

Metals. The concentration of arsenic detected in each sample exceeded the human health risk-based SL. No other metals were detected above SLs in the subsurface drain line soil samples.

4.1.6 Drain Line Water Analytical Data

A comparison of water analytical data to risk-based screening levels is presented in Table 7-4 of Data Gap Report 1 (USACE, 2025).

Volatile Organic Compounds. Detections of VOCs in the water samples collected during the drain line investigation were limited. 4-methyl-2-pentanone, acetone, and toluene were detected at trace levels in the water sample collected from SB-202. TCE was detected in this sample at a concentration exceeding its SL. Toluene was detected in 3 of the 4 water samples.

Polycyclic Aromatic Hydrocarbons. Seven PAH compounds were detected above the EPA RSLs for Resident Tap Water in the water sample collected from SB-203R. PAHs were detected in two other water samples at concentrations exceeding SLs.

Total Metals. The concentrations of seven metals were detected above SLs in at least one drain line aqueous sample. No metal concentrations exceeded EPA MCLs. The highest concentrations of metals were detected in the sample collected from SB-202.

Dissolved Metals. There were no dissolved metals detected above EPA RSLs for Resident Tap Water or EPA MCLs in any of the drain line water samples collected during the drain line investigation.

5.0 RELEASE MECHANISMS AND ENVIRONMENTAL TRANSPORT MODEL

The primary release mechanisms from potential source areas into the environment include direct discharge, surface water runoff, leaching, and infiltration from primary and secondary source areas (e.g., previously impacted shallow overburden) into the surrounding soil and groundwater, and volatilization. Secondary transport mechanisms are often related to the type of chemical constituent. Heavy metals and higher molecular weight organic compounds are often absorbed on to fine-grained particulate and transported with that particulate via overland or culverted surface water runoff, eventually being redeposited in sediment depositional areas. More volatile and lighter molecular weight organic compounds are often transported via precipitation, ground infiltration, leaching, and finally, to overburden groundwater. Once in groundwater, migration of constituents tends to follow groundwater flow direction(s), although constituents with densities greater than water may follow bedrock topography where it does not align with groundwater flow directions.

Understanding the solubility and mobility of PAHs, metals, VOCs, and PCBs is critical for assessing environmental risks. PAHs are normally hydrophobic and poorly soluble in water, which limits their mobility in groundwater but allows them to persist in soils. Metals can be either highly mobile in groundwater or relatively immobile if they are bound to soil particles. VOCs tend to be more soluble in water compared to PAHs and can move more easily through both groundwater and soil. PCBs have a low solubility which makes them less mobile and groundwater but more persistent in the soil, leading to long-term contamination risks. The mobility of all of these contaminants are influenced by factors such as pH and temperature.

Because previous work on the Site included removal of contaminant sources, continued impacts from FUDS Project Area disposal areas are likely under control, especially for larger molecular weight constituents such as PAHs, metals, and PCBs, as they pertain to migration via overland flow. However, fill applied extensively throughout the BIA area and other potential upgradient sources may continue to impact COI concentrations in

environmental media within the FUDS Project Area. A more spatially extensive water level monitoring network is required to determine the direction of BIA fill contaminant migration and assess potential FUDS Project Area impacts.

6.0 POTENTIAL RECEPTORS AND EXPOSURE PATHWAYS

Based on the potential release mechanisms, the primary exposure pathways for humans are identified as incidental ingestion or dermal contact with surface soil, subsurface soil, sediments, surface water, and groundwater. The inhalation exposure pathway from volatilization to the air appears not to be significant based on the lack of VOC contamination identified thus far during the RI.

Based on multiple site observations in 2008 and 2015-2018 by USACE, the area is currently used for recreational purposes (e.g., dog walking, ATV/snowmobiling, hunting), Physical Training (PT) by MEANG personnel and Reservists using Hildreth Street North. Other potential receptors include BIA staff and construction workers and Site visitors. Well receptor survey results, updated in 2024 and provided under separate cover, indicate that three drinking water wells are located within a mile downstream of the FUDS project. These wells could potentially be impacted by previous Site activities. The drinking water wells are well beyond the boundary of the FUDS Project Area boundaries and are also downgradient of other potentially contaminated sites.

A future ecological risk assessment will evaluate the possibility of direct contact for terrestrial and semi-aquatic receptors such as amphibians via sediment, wetland soils, and surface water. Because of the intermittent and seasonal nature of the surface water flows, exposure to fully aquatic organisms will not be evaluated further. The groundwater to surface water discharge mechanism at the FUDS Project Area will be evaluated for the freshwater wetland resource area and un-named stream channel.

7.0 CONCEPTUAL SITE MODEL DATA GAPS

Based on what is currently known about the Site, and what is understood about the CSM, the following data gaps were identified and provide the basis for a potential next phase of investigation:

- During the Phase III RI, VOCs were detected above SLs in groundwater including, TCE and vinyl chloride (VC). Groundwater samples were collected in the bedrock/till interval. Additional groundwater sampling, and information regarding potential source areas northeast of the Site, is required to delineated VOCs in deep overburden groundwater.
- A spatial pattern of arsenic and manganese SL exceedances in samples collected from downgradient site wells indicates potential upgradient impacts from source areas, fill and/or the FTA. Additional data is needed to determine the source of these exceedances and delineate their extent to the north and northwest of the FUDS Project area.
- The identified storm drain corridor could act as a potential preferential migration pathway, especially for more mobile constituents, such as chlorinated VOCs. Further investigations to the east are required to further delineate the petroleum and TCE impacted soil and groundwater. Sampling outside the FUDS boundary may not be possible.
- Delineation has not been completed outside of the identified disposal areas. If samples were collected either outside of the disposal areas or from fill beyond the project limits, PAH and metals contamination could be attributed to historical fuel filter/debris disposal if concentrations were low. If concentrations are higher, then there may be a case where contaminated fill material is ubiquitous throughout the area and not solely a result of historical DoD activity. Available surface water data indicates metals and PAH impacts upgradient of the FUDS Project area are likely affecting Site environmental media.
- PAH contamination requires further vertical and horizontal delineation at DU05-SS01 and DU01-SS04, where impacts were observed within the Presumpscot Formation samples.

- The PCB detection in the DU03-A ISM sample indicates contamination within this source area of an unknown extent, however subsurface sampling did not identify PCB cogeners present above applicable SLs. 2023 Phase III RI and the 2008 SI both indicate PCB impacts in samples above SLs consistently cooccur with PAH concentrations above SLs. While this is a data gap, efforts to address much more extensive PAH SL exceedances are likely to address this detection without further investigation efforts.
- Well Receptor survey results show that three downgradient drinking water wells are located within a mile downstream of the FUDS project and potential impacts to these wells from FUDS Project Area source areas have not been assessed. However, due to likely current and historical sources of COIs to groundwater upgradient of the Site it would not be possible to identify if detections above screening levels are due to FUDS Project Area impacts.
- Historical environmental investigations and other available military documentation suggest that PAHs and metals may have been released to the environment in the Dow Disposal Site FUDS. Surface water data indicate COIs are likely present in fill materials used in the creation of the airfield and located on the northern side of the Site and/or in other source areas (Figure A-1-2). Sampling for COIs upgradient of suspected FUDS Project Area source areas has not occurred to allow differentiation between disposal area impacts and other upgradient sources.
- PAH impact extent in down gradient media is limited to surface samples next to fuel filter source areas possibly transported by extreme rainfall events to downgradient surface soils. While ISM sampling has broadly determined the extent of these impacts, discrete sampling is necessary to support any remedial decisions requiring full impact delineation.
- Constituents, particularly those that are prone to downward migration, such as chlorinated solvents, were detected in overburden-bedrock interface groundwater samples from wells MW-303 and MW-311 at low levels just above the 2022 Tapwater (THQ target hazard quotient [TWH] 1.0) SL. GZA (1993) reported TCE concentrations above the MCL just north of MW-303 and MW-311 outside of the FUDS Project Area. The spatial pattern of detections indicating chlorinated solvent migration down the bedrock surface suggests an attenuated source, or a potential source area to the northeast of the FUDS Project area. This potential source area may warrant further investigation to understand chlorinated solvent detections with an expanded water level monitoring network to understand groundwater transport directions between the FUDS Project Area and BIA.
- The potential risks to human health and ecological receptors associated with exposure to FUDS-related COPCs requires quantitative assessment.

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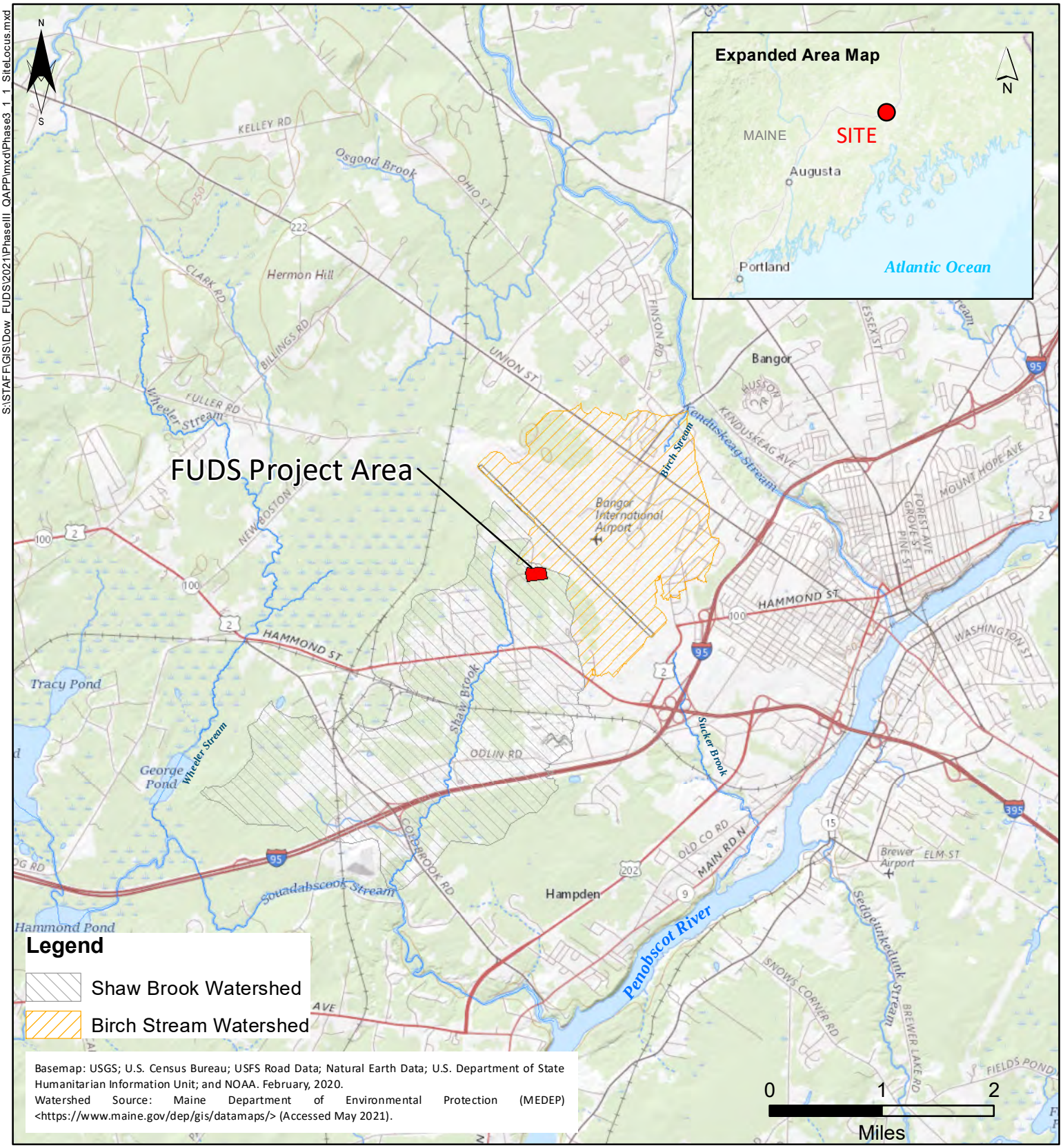
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Attachment A Figures



US Army Corps of Engineers.

Former Dow Military Airfield

Bangor, Maine

Formerly Used Defense SIte (FUDS)
Property and Project Number D01ME004 02

SITE LOCUS MAP

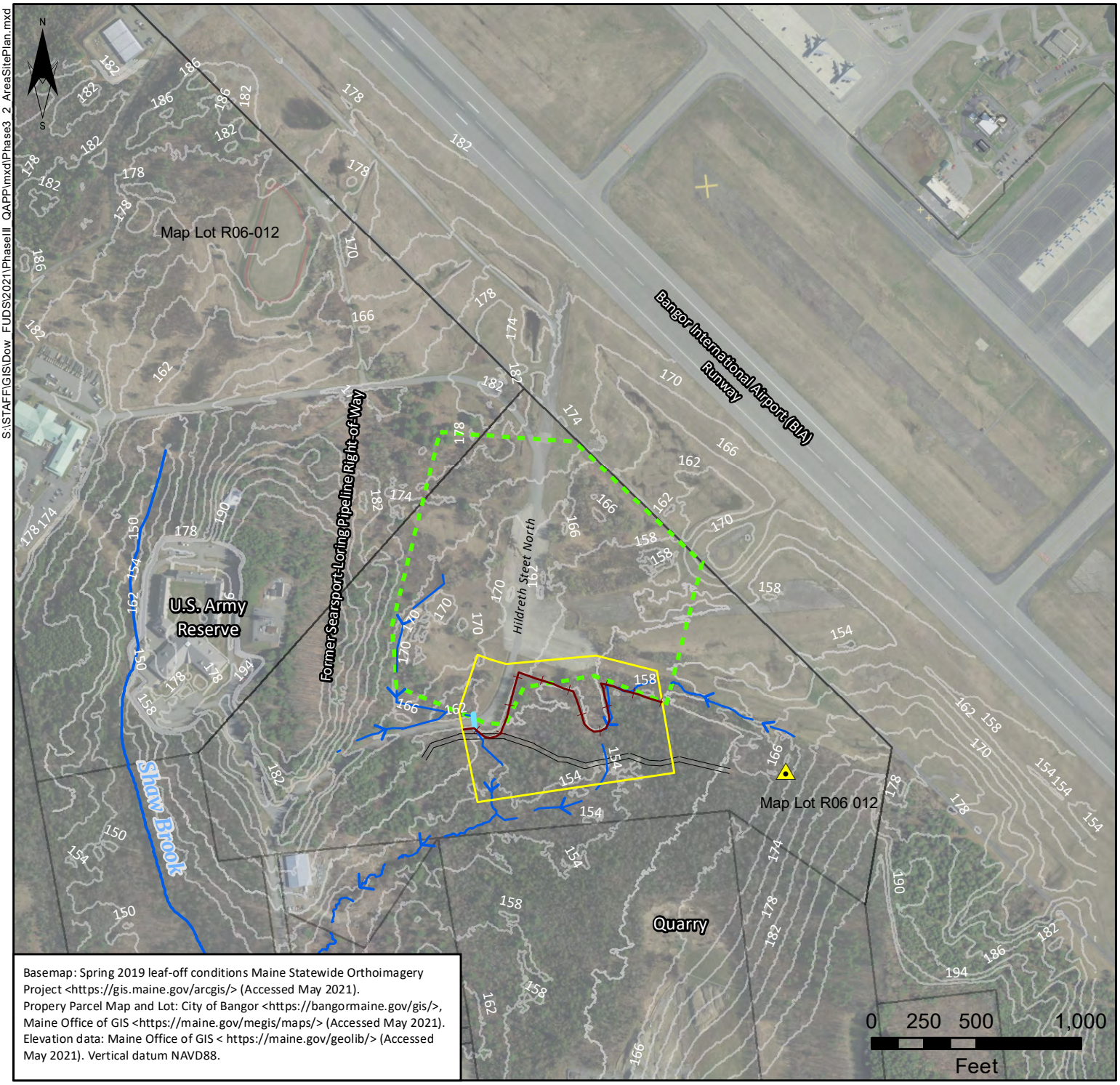
Conceptual Site Model

U.S. Army Corps of Engineers, New England District

Figure A-1-1

Drawn: DWM	Approved: SAV
Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)	
Contract No. W912WJ-16-D-0004	Date: 8/10/2021

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Basemap: Spring 2019 leaf-off conditions Maine Statewide Orthoimagery Project <https://gis.maine.gov/arcgis/> (Accessed May 2021).
Propery Parcel Map and Lot: City of Bangor <https://bangormaine.gov/gis/>, Maine Office of GIS <https://maine.gov/megis/maps/> (Accessed May 2021).
Elevation data: Maine Office of GIS < https://maine.gov/geolib/> (Accessed May 2021). Vertical datum NAVD88.

Legend

- FUDS Project Area
- Former Fire Training Area Boundary
- Property Boundary
- Elevation Contours (4 ft)
- Intermittent Stream With Flow Direction
- Culvert
- Recreational Trail
- Native (south) / Fill (north) Delineation
- Approximate Location of Former Drum Disposal Area

US Army Corps of Engineers.

Former Dow Military Airfield
Bangor, Maine

Formerly Used Defense Site (FUDS)
Property and Project Number D01ME0004 02

AREA SITE PLAN
Conceptual Site Model

U.S. Army Corps of Engineers, New England District

Figure A-1-2

Drawn: DWM	Approved: SAV
Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)	
Contract No. W912WJ-16-D-0004	Date: 11/24/2021

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Native (south)/Historical Fill (north) Delineation

Hildreth Street North

Intermittent Stream With Flow Direction

Legend

- FUDS Project Area
- Approximate Boundary of 2008 Watermark Site Investigation
- Elevation Contours (4 ft)
- Catch Basin
- RecreationalTrail
- Culvert
- Utility Line

0 250 500 Feet

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US Army Corps of Engineers.

Former Dow Military Airfield

Bangor, Maine

Formerly Used Defense Site (FUDS)

Property and Project Number D01ME0004 02

HILLSHADE RELIEF MAP

Conceptual Site Model

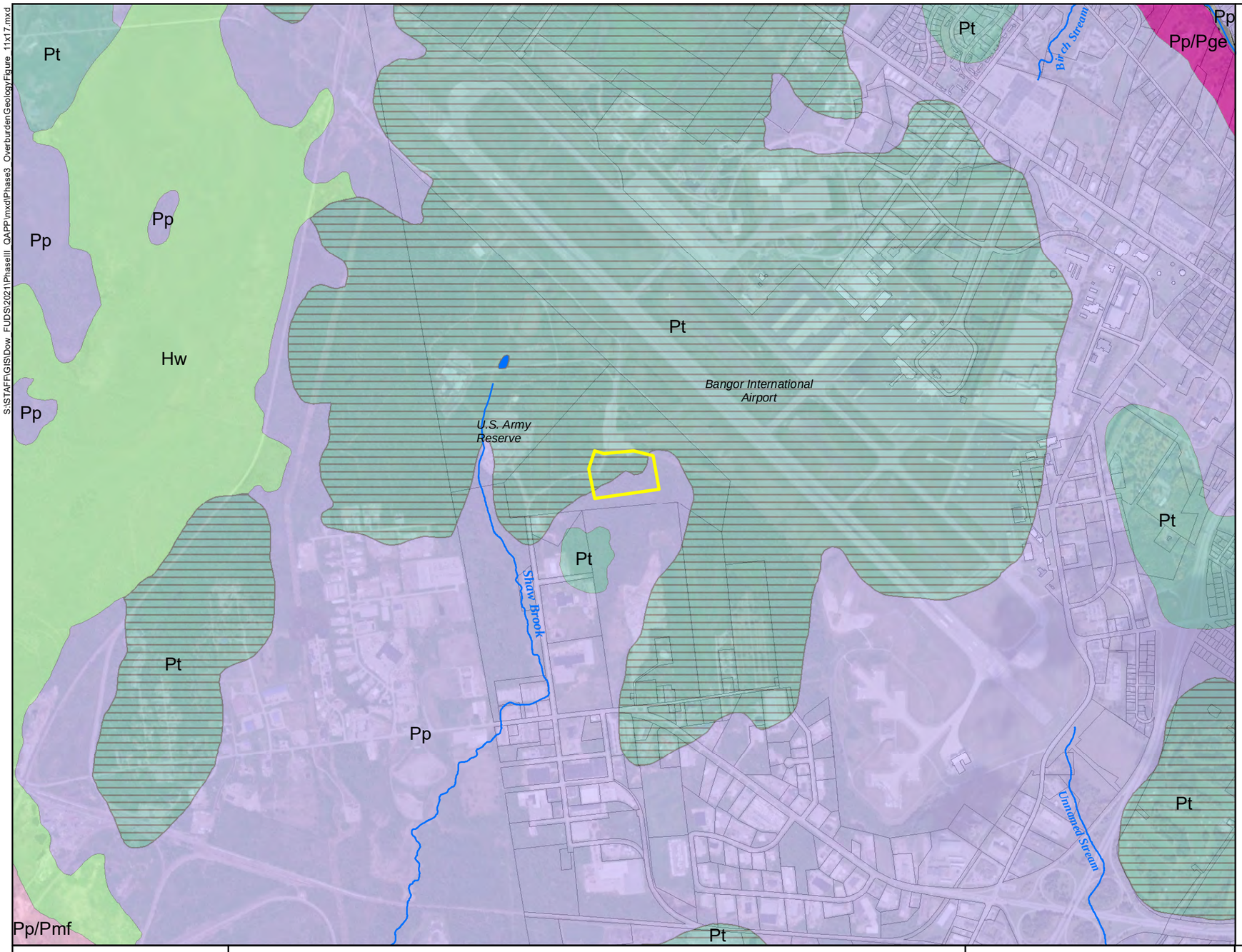
U.S. Army Corps of Engineers, New England District

Figure A-1-3

Drawn: DWM	Approved: SAV
Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)	
Contract No. W912WJ-16-D-0004	Date: 11/22/2021

Hillshade imagery: USGS National Map 3D Elevation Program (3DEP) <https://www.usgs.gov/> (Accessed May 2021).
Elevation data: Maine Office of GIS < https://maine.gov/geolib/> (Accessed May 2021). Vertical datum NAVD88.
Utility Line and Catch Basin locations: Hager-Richter Geoscience, Inc. Surface Geophysical Surveys Report, April 2021.
2008 Watermark Site Investigation Boundary: Watermark Environmental, Inc., Final Site Investigation Summary Report, January 2013.

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Legend

FUDS Project Area

Bangor Property Boundary

Surficial Geology

UNIT

Pt	Till - Loose to very compact, poorly sorted, massive to weakly stratified mixture of sand, silt, and gravel-size rock debris deposited by glacial ice. Locally includes lenses of waterlaid sand and gravel. Boulders commonly present on ground surface.
Pp	Presumpscot Formation - Glaciomarine silt, clay, and sand deposited on the late-glacial sea floor.
Hw	Wetland sediment - Peat, muck, silt, and clay in poorly drained areas.
Pp/Pge	Presumpscot Formation overlying esker sediment - Areas of sand and gravel (Pge) deposited by glacial meltwater streams in tunnels beneath the ice. After tunnel sediment was exposed during recession of the ice sheet, then a variable thickness of glacioma.
Pp/Pmf	Presumpscot Formation overlying glaciomarine fan sediment - Glaciomarine silt, clay, and sand (Pp) overlying submarine fan sediment (Pmf) containing well stratified sand and gravel.
	Bedrock outcrops/thin-drift area - Ruled pattern indicates areas where bedrock outcrops are common and/or surficial sediments are generally less than 10 ft thick. Mapped from air photos and ground observations. Actual thin-drift areas are probably more extensive than shown.

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US Army Corps of Engineers.

Former Dow Military Airfield

Bangor, Maine

Formerly Used Defense Site (FUDS)

Property and Project Number D01ME0004 02

AREA SURFICIAL GEOLOGY MAP

Conceptual Site Model

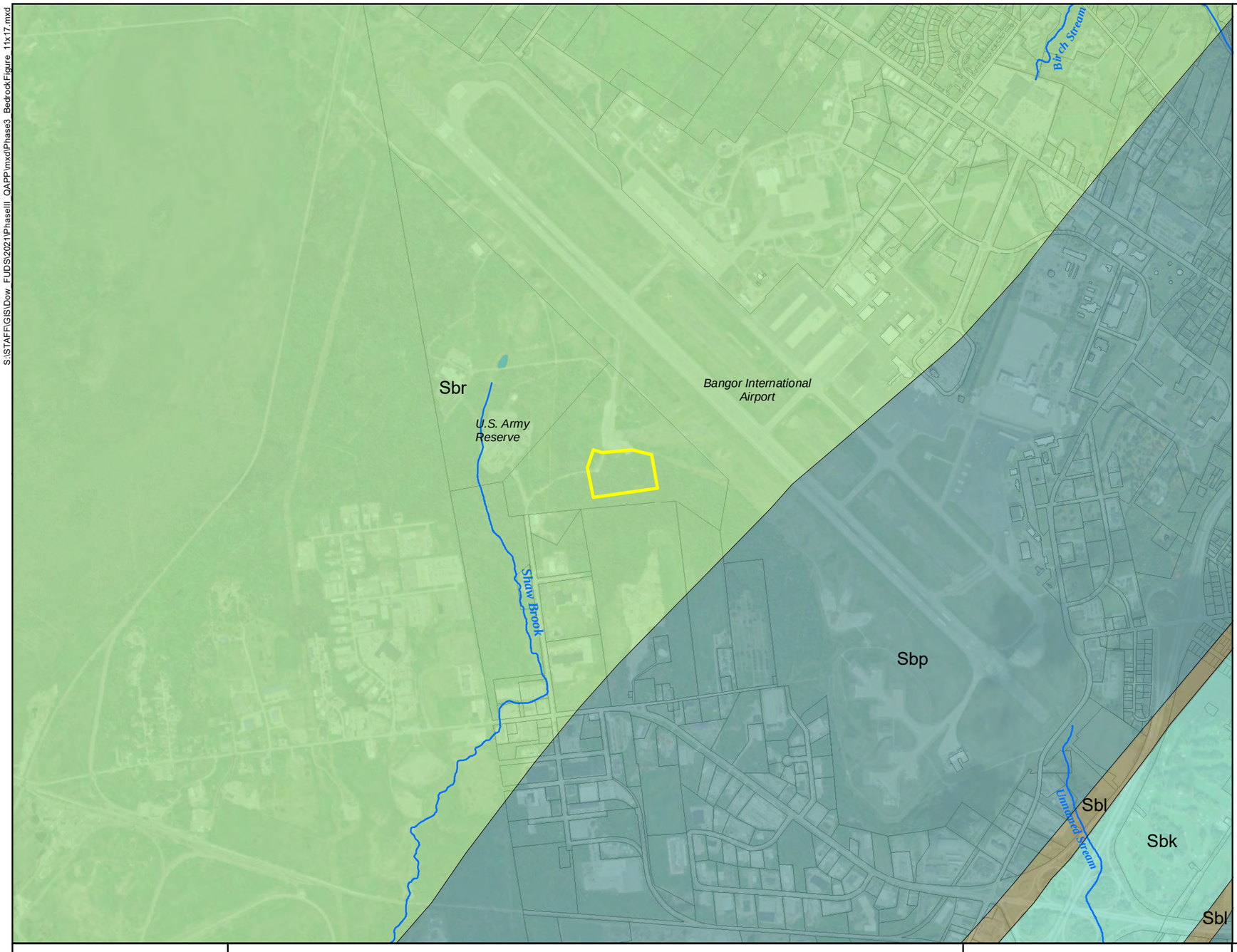
U.S. Army Corps of Engineers, New England District

Figure A-1-4

Drawn: DWM	Approved: SAV
Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)	
Contract No. W912WJ-16-D-0004	Date: 11/22/2021

Base Imagery Source: Spring 2019 leaf-off conditions Maine Statewide Orthoimagery Project - https://www.maine.gov
Property Parcel Data: https://bangormaine.gov/ and https://maine.gov/
Surficial Geology Data: https://digitalmaine.com/mgs_maps/2034, Surficial geology of the Bangor quadrangle, Maine: Maine Geological Survey, Open-File Map 11-6, map. 2011

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Legend

FUDS Project Area

Bangor Property Boundary

Bedrock Geology

UNIT

Sbr — Brewer Formation. Dominantly dark gray to black, siltstone and claystone slate. Slate beds are commonly less than 30 cm thick. Locally common within the slates are thin, discontinuous, parallel laminae of quartz-rich metasiltstone.

Sbp — Bangor Formation - Penobscot River Member. Medium gray to dark gray, medium-grained to very fine-grained feldspathic metawacke. Muscovite is locally a common accessory mineral. Siltstone and claystone slate is a minor lithology.

Sbk — Bangor Formation - Kenduskeag Stream Member. Medium greenish gray to dark greenish gray very fine-grained to fine-grained feldspathic metawacke and greenish gray slate. Muscovite is locally a common accessory mineral in the metawackes.

Sbl — Bangor Formation - Lover's Leap Member. Dark gray to grayish black siltstone slate with laminae and very thin beds of very fine-grained quartz-rich sandstone. Rusty weathering, calcareous, very fine-grained, quartz-rich metasandstone is locally common.

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US Army Corps of Engineers.

Former Dow Military Airfield

Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project Number D01ME0004 02

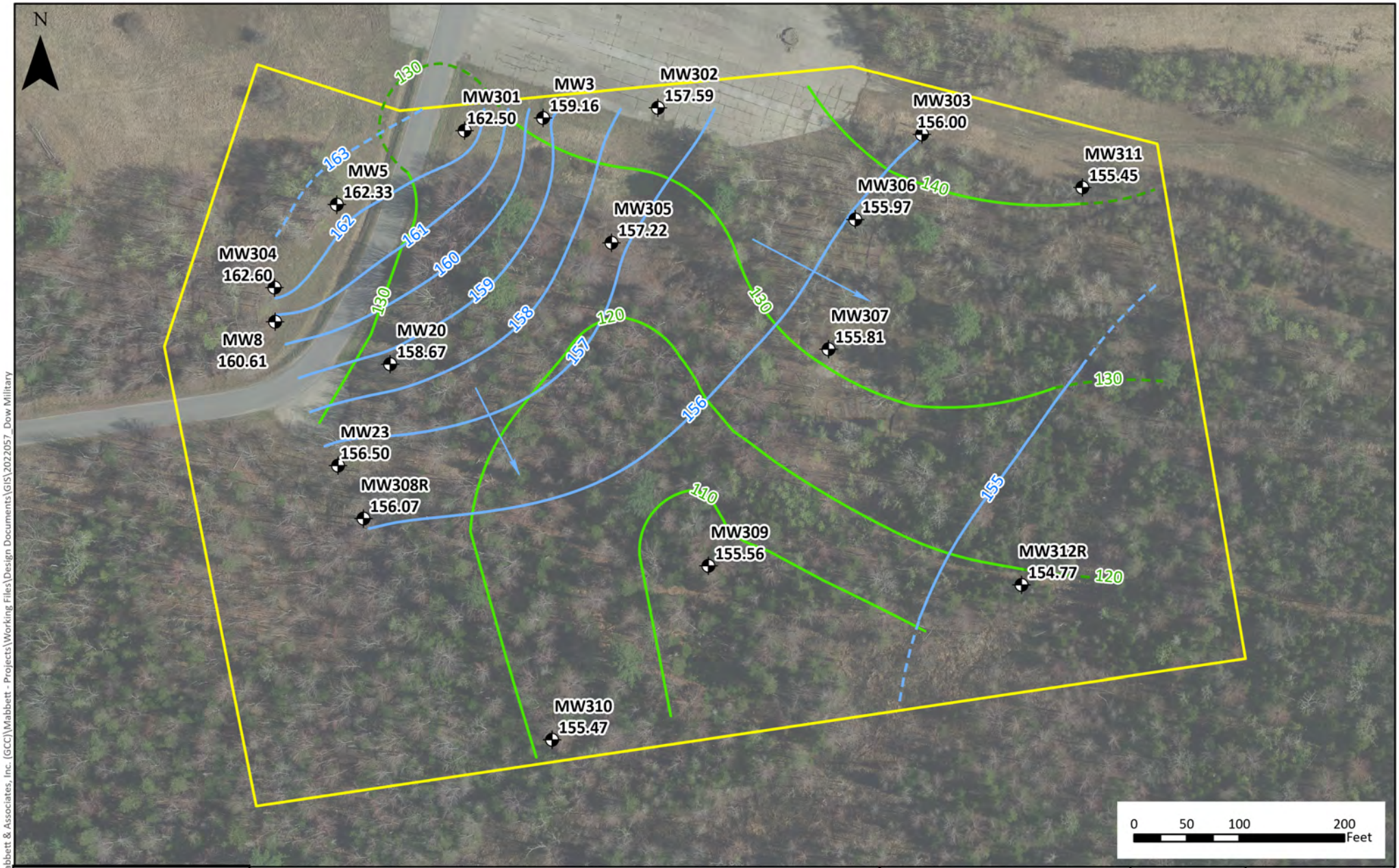
AREA BEDROCK MAP

Conceptual Site Model
U.S. Army Corps of Engineers, New England District

Figure A-1-5

Drawn: DWM	Approved: SAV
Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)	
Contract No. W912WJ-16-D-0004	Date: 11/22/2021

Base Imagery Source: Spring 2019 leaf-off conditions Maine Statewide Orthoimagery Project - https://www.maine.gov
Property Parcel Data: https://bangormaine.gov/ and https://maine.gov/
Bedrock Geology Data: Maine Department of Agriculture, Conservation, and Forestry, Maine Geological Survey, Open-File Map 11-57 - https://maine.gov/. 2011



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Figure A-1-6

Bedrock and Groundwater Elevation Contour Map

US Army Corps of Engineers

Former Dow Air Force Base

Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02
Conceptual Site Model
U.S. Army Corps of Engineers, New England District

Legend

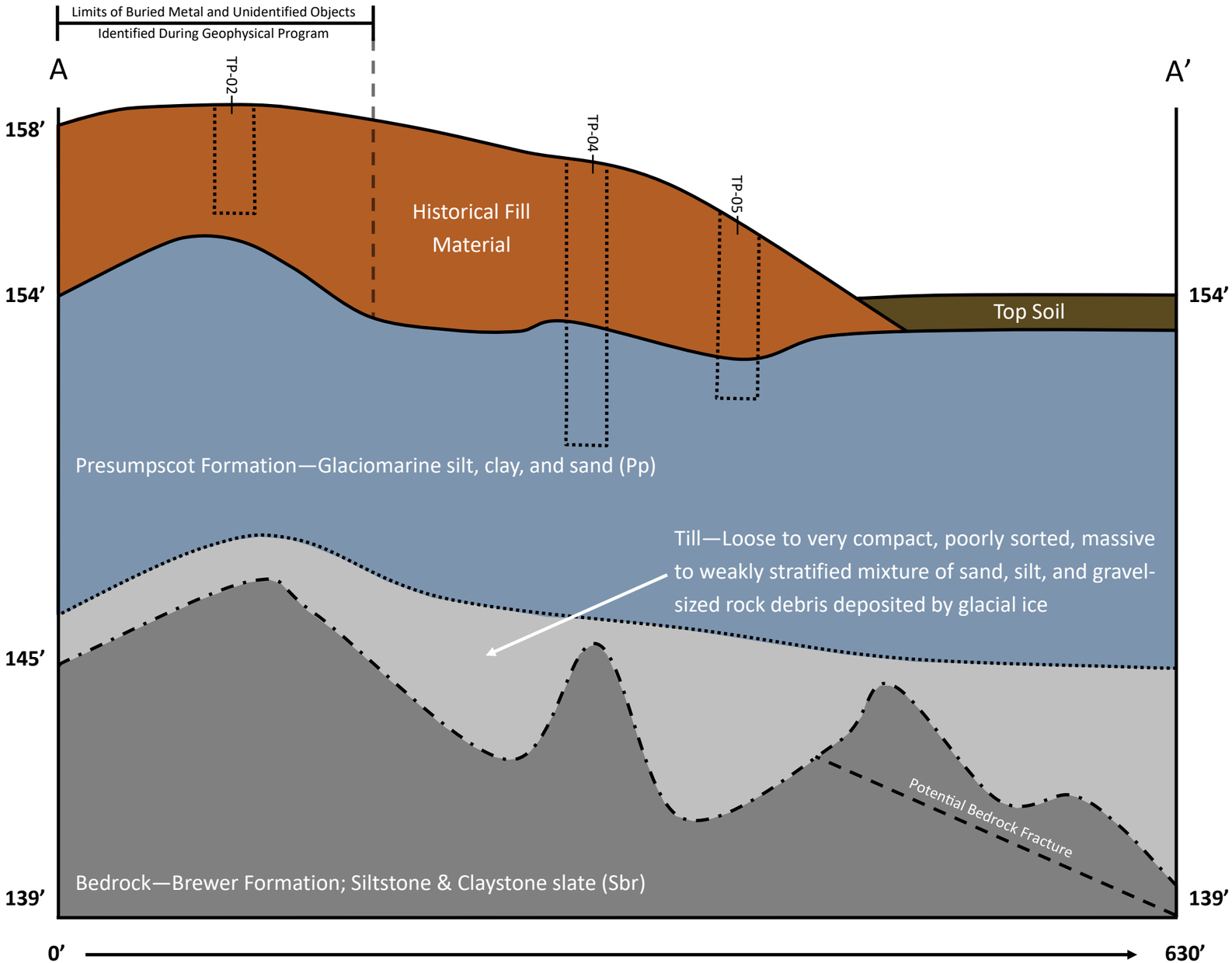
- FUDS Project Area
- Monitoring Well Location With Groundwater Elevation (ft)
- Groundwater Elevation Contour (ft)
- Interpreted Groundwater Elevation Contour (ft)
- Inferred Groundwater Flow Direction
- **Bedrock Elevation Contour (ft)**
- **Interpreted Bedrock Elevation Contour (ft)**

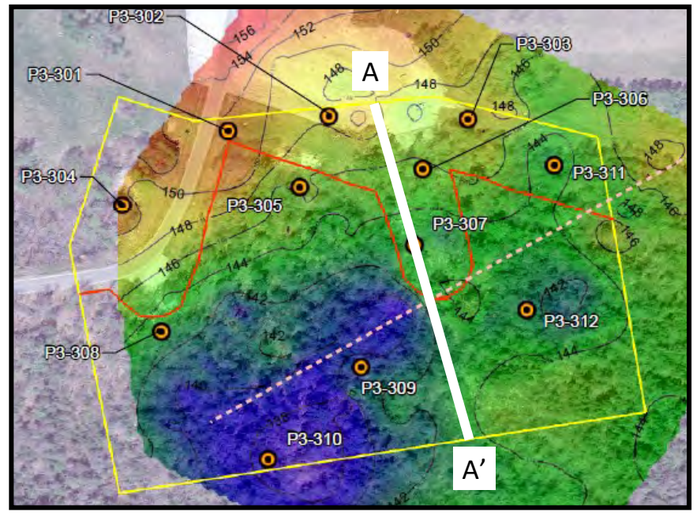
Drawn: EBD | Approved: SAV

Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)

Contract No. W912WJ-19-D-0005 | Date: 9/10/2024

Notes:
Basemap: Spring 2019 leaf-off conditions Maine Statewide Orthoimagery Project <<LINK>https://gis.maine.gov/arcgis/</LINK>> (Accessed May 2024).
Groundwater Contours Measured April 22, 2024





References:

1. Bedrock Geology Map, Maine Department of Agriculture, Conservation, and Forestry, Maine Geological Survey, Open-File Map 11-57. 2011.
2. Surficial Geology of the Bangor Quadrangle, Maine: Maine Geological Survey, Open-File Map 11-6. 2011.
3. Watermark, Final Site Investigation Summary Report—Aviation Fuel-Filter/Tetraethyl Lead Disposal Area and Trichloroethylene Disposal Area, Former Dow Air Force Base. January 2013.
4. Mabbett, Phase I Remedial Investigation Trip Report, FUDS Project Area Former Dow Military Airfield. March 2018.
5. Hager-Richter Geosciences, Inc., Surface Geophysical Surveys, Former Dow Military Airfield Site. April 2021.

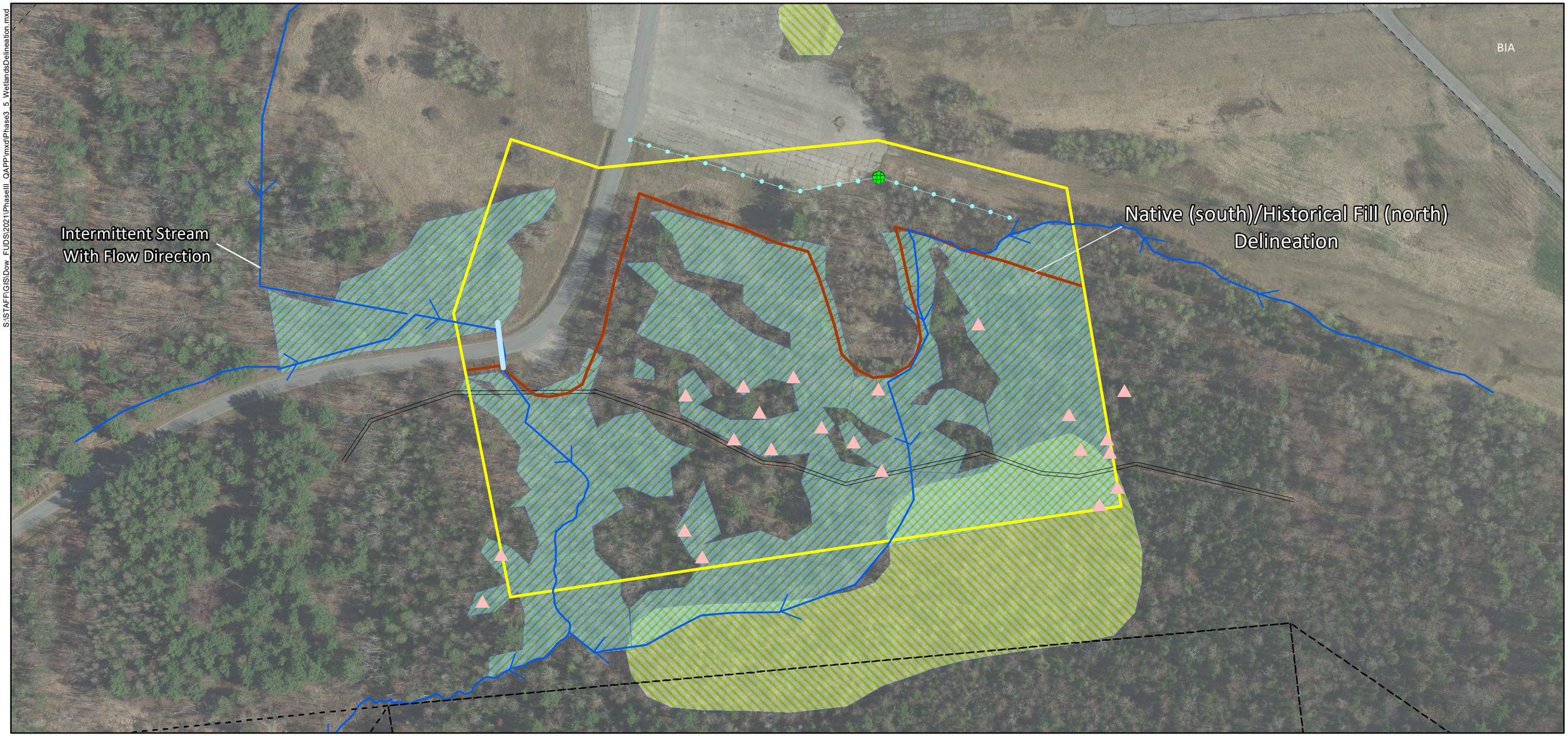
Figure A-1-7

Conceptual Geological Cross Section

Former Dow Military Airfield
Bangor, ME
Formerly Used Defense Site (FUDS)
Property and Project Number D01ME0004 02

Drawn: CEW	Approved: MLB
Contract No. W912WJ-16-D-0004	Date: 11/24/2021

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Legend

- FUDS Project Area
- USACE Delineated Wetlands
- USFWS National Wetlands Inventory
- Vernal Pool
- Property Boundary
- Recreational Trail
- Culvert
- Utility Line
- Catch Basin

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Feet

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US Army Corps of Engineers.

Former Dow Military Airfield

Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02

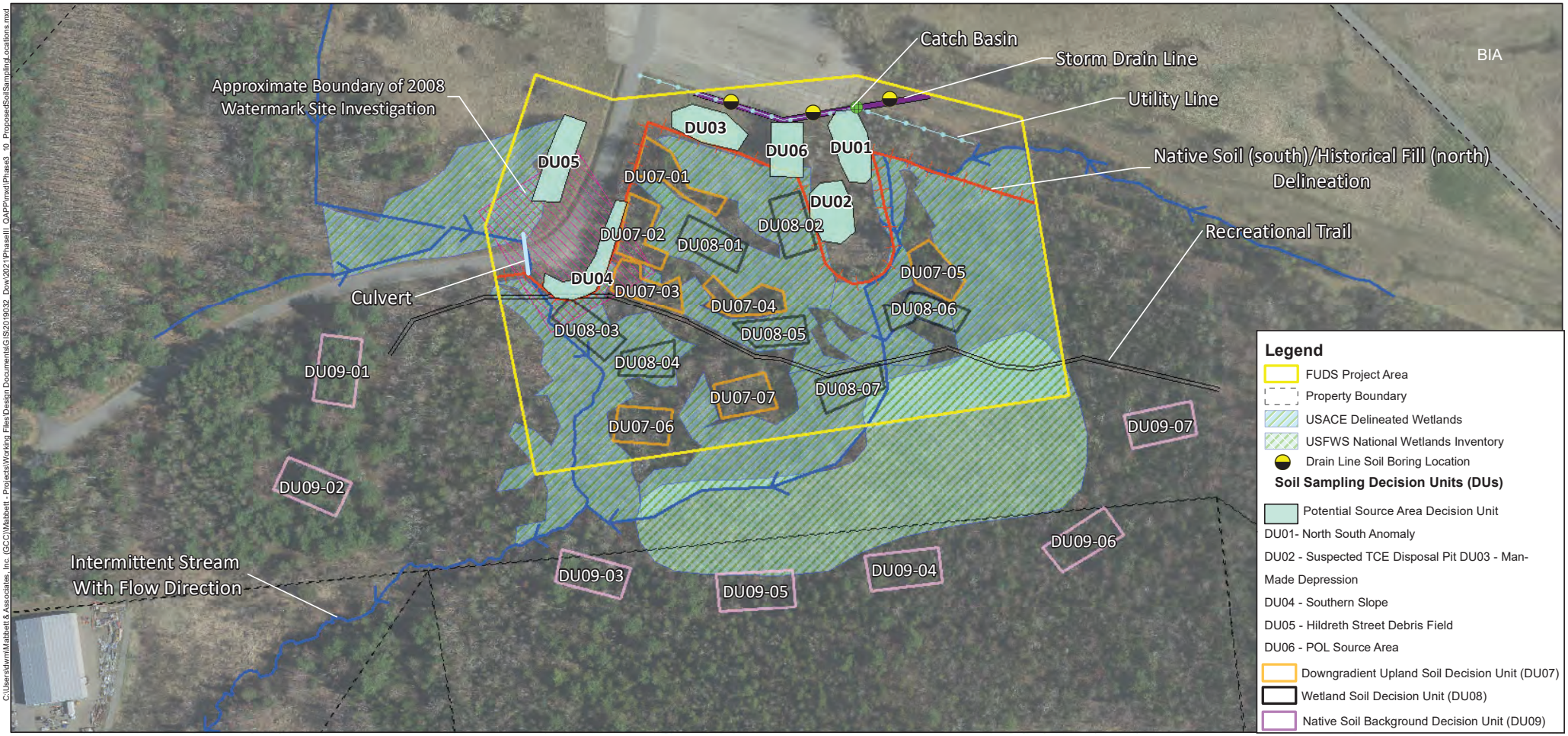
WETLAND DELINEATION AND VERNAL POOL LOCATIONS

Conceptual Site Model
U.S. Army Corps of Engineers, New England District

Figure A-1-8

Drawn: DWM	Approved: SAV
Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)	
Contract No. W912WJ-16-D-0004	Date: 11/22/2021

Basemap: Spring 2019 leaf-off conditions Maine Statewide Orthoimagery Project <https://gis.maine.gov/arcgis/> (Accessed May 2021).
Propery boundaries: City of Bangor <https://bangormaine.gov/gis/>, Maine Office of GIS <https://maine.gov/megis/maps/> (Accessed May 2021).
Maine wetlands: U.S. Fish and Wildlife Services (USFWS) <https://www.fws.gov/> (Accessed May 2021).
Utility Line and Catch Basin locations: Hager-Richter Geoscience, Inc. Surface Geophysical Surveys Report, April 2021.
U.S. Army Corp of Engineers (USACE) delineated wetlands and vernal pool locations: Watermark Environmental, Inc., Final Site Investigation Summary Report, January 2013.



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US Army Corps of Engineers.

Former Dow Air Force Base

Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02

Site Plan and Disposal Area Locations

Conceptual Site Model

U.S. Army Corps of Engineers, New England District

Figure A-2-1

Drawn: DWM	Approved: SAV
Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)	
Contract No. W912WJ-19-D-0005	Date: 4/7/2023

Notes:
Basemap: Spring 2019 leaf-off conditions Maine Statewide Orthoimagery Project <https://gis.maine.gov/arcgis/> (Accessed May 2021).
Propery boundaries: City of Bangor <https://bangormaine.gov/gis/>, Maine Office of GIS <https://maine.gov/megis/maps/> (Accessed May 2021).
Utility Line and Catch Basin locations: Hager-Richter Geoscience, Inc. Surface Geophysical Surveys Report, April 2021.
2008 Watermark Site Investigation Boundary and U.S. Army Corp of Engineers (USACE) delineated wetlands locations: Watermark Environmental, Inc., Final Site Investigation Summary Report, January 2013.
Maine wetland data: U.S. Fish and Wildlife Services (USFWS) <https://www.fws.gov/> (Accessed May 2021).
Storm Drain Line location: James W. Sewall Consulting Engineers, Bangor International Airport Peripheral Land Study Infrastructure Plan, Storm Drainage, May 1989. Utility locations and scale are considered approximate.

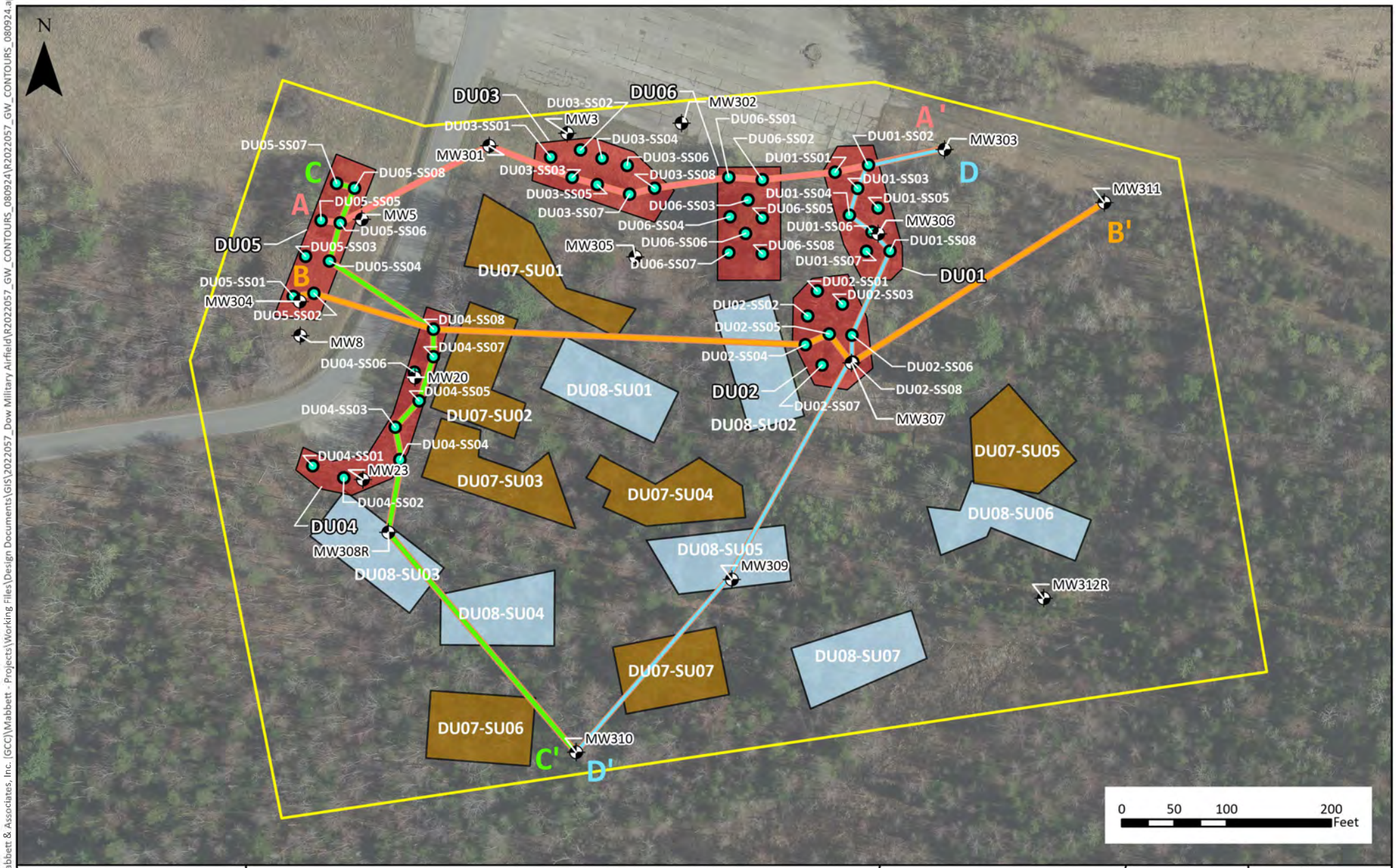


Figure A-5-1

Cross-Section Location Analysis Locations

US Army Corps of Engineers

Former Dow Air Force Base

Bangor, Maine

Formerly Used Defense Site (FUDS)

Property and Project No. D01ME0004 02

Conceptual Site Model

U.S. Army Corps of Engineers, New England District

Legend

- FUDS Project Area
- Monitoring Well Location
- DPT Soil Boring Location
- Source Area Decision Units (DU01-DU06)
- Wetland Site Units (DU08)
- Downgradient Site Units (DU07)

Drawn: DWM	Approved: SAV
Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)	
Contract No. W912WJ-19-D-0005	Date: 8/22/2024

Notes:
Basemap: Spring 2019 leaf-off conditions Maine Statewide Orthoimagery Project <<LINK>https://gis.maine.gov/arcgis/</LINK>> (Accessed May 2024).
DPT - Direct Push Technology

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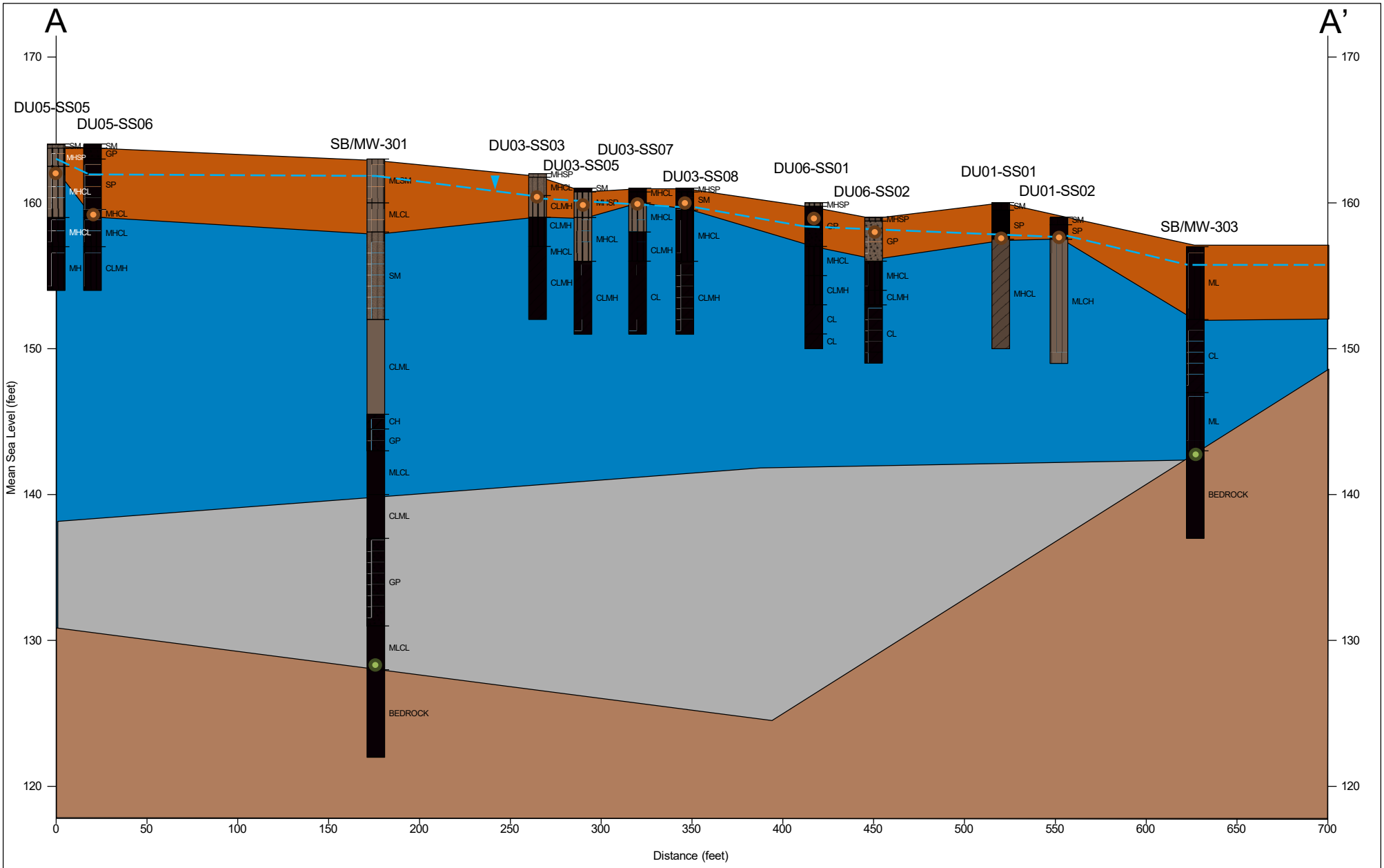


Figure A-5-2

Overburden
Cross Section A-A'

US Army Corps of Engineers ®

Former Dow Airforce Base

Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02
Conceptual Site Model
U.S. Army Corps of Engineers, New England District

Legend

- Fill
- Presumpscot Formation
- Till
- Bedrock
- Inferred Groundwater Surface
- Bounded HH PAH exceedance depth
- Unbounded HH PAH exceedance depth
- No HH PAH Exceedance

Notes

1. Ground surface elevations for individual boring locations extracted from a publicly available Google Earth DEM and are approximate only. Ground surface and stratigraphic contacts between individual locations were interpolated linearly and may differ significantly in real life from depicted.
2. Depths to bedrock and till in the vicinity of DU03 and DU05 are informed by borings SB-305 and SB-304 which are not depicted in this figure.
3. Depicted groundwater elevations are based on drilling log soil moisture observations, April 2024 groundwater gauging activities and the inferred control of the Presumpscot Formation on groundwater elevations. Groundwater elevations depicted may not be fully representative of actual groundwater conditions at individual locations.

Drawn: DPJ

Approved: SAV

Date: 8/23/2024

Contract No. W912WJ-19-D-0005

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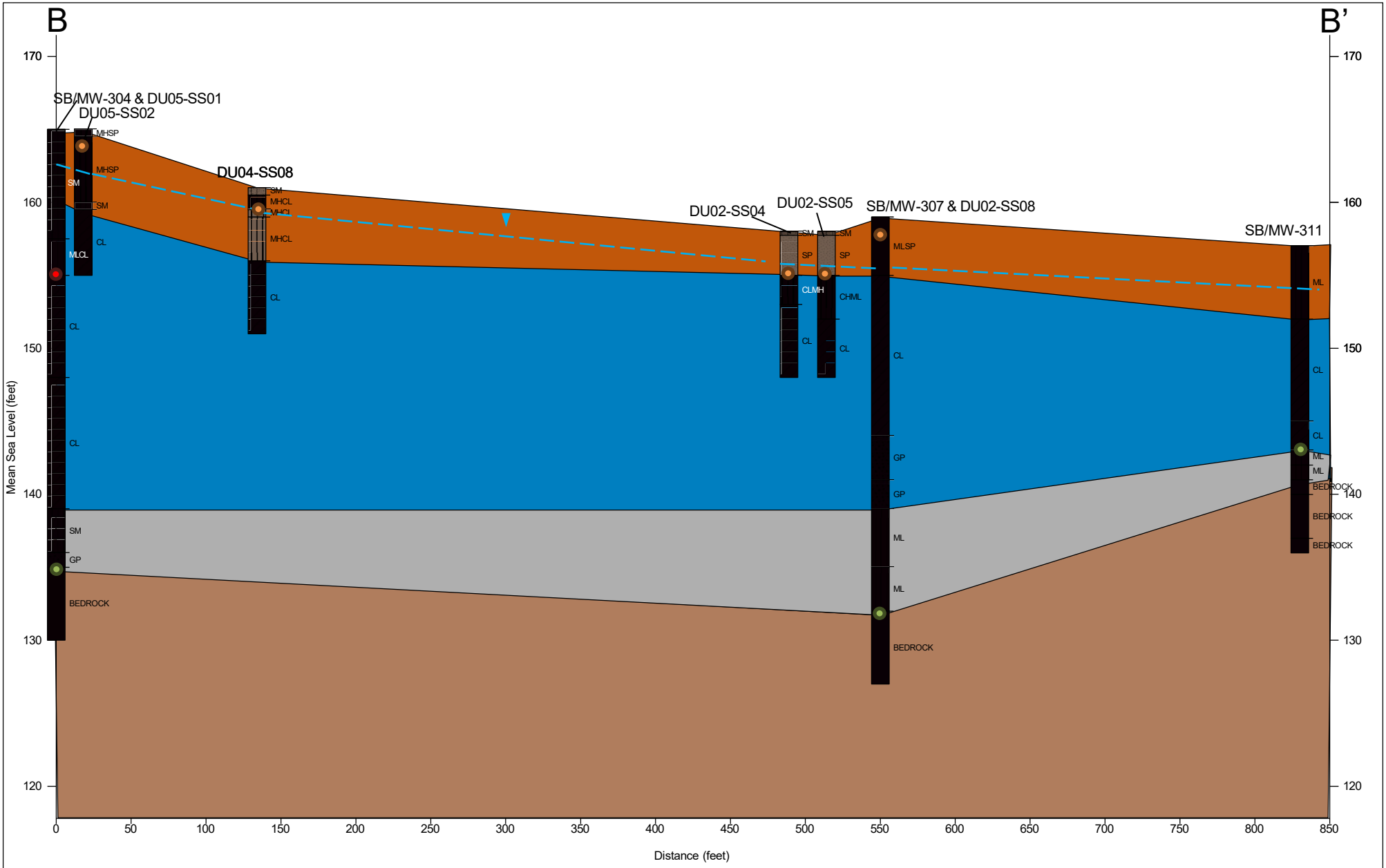


Figure A-5-3

Overburden
Cross Section B-B'

US Army Corps of Engineers ®

Former Dow Airforce Base

Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02
Conceptual Site Model
U.S. Army Corps of Engineers, New England District

Legend

- Fill
- Presumpscot Formation
- Till
- Bedrock
- Inferred Groundwater Surface
- Bounded HH PAH exceedance depth
- Unbounded HH PAH exceedance depth
- No HH PAH Exceedance

Notes

1. Ground surface elevations for individual boring locations extracted from a publicly available Google Earth DEM and are approximate only. Ground surface and stratigraphic contacts between individual locations were interpolated linearly and may differ significantly in real life from depicted.
2. Depicted groundwater elevations are based on drilling log soil moisture observations, April 2024 groundwater gauging activities and the inferred control of the Presumpscot Formation on groundwater elevations. Groundwater elevations depicted may not be fully representative of actual groundwater conditions at individual locations.

Drawn: DPJ

Approved: SAV

Date: 8/23/2024

Contract No. W912WJ-19-D-0005

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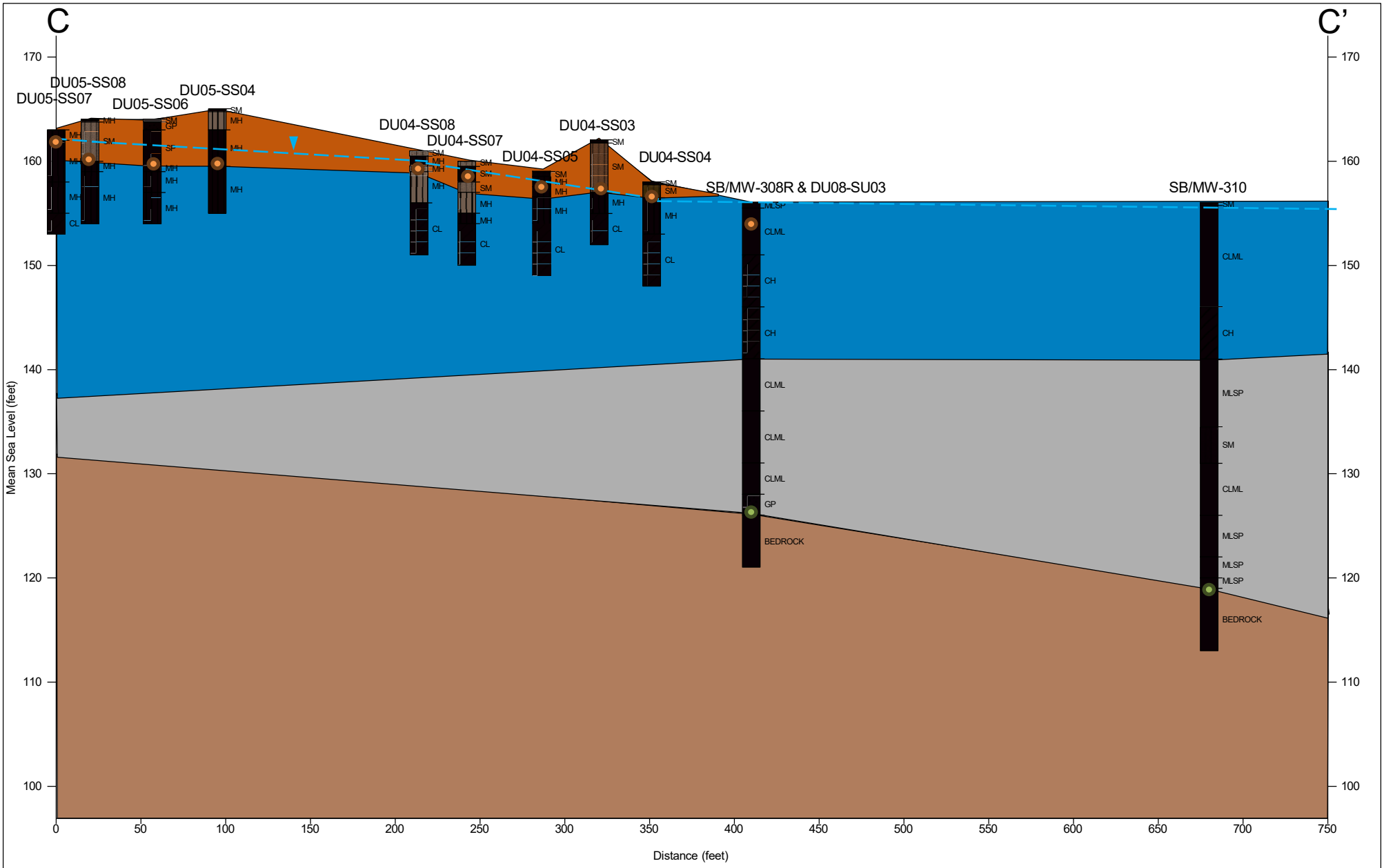


Figure A-5-4

Overburden
Cross Section C-C'

US Army Corps of Engineers ®

Former Dow Airforce Base

Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02
Conceptual Site Model
U.S. Army Corps of Engineers, New England District

Legend

- Fill
- Presumpscot Formation
- Till
- Bedrock
- Inferred Groundwater Surface
- Bounded HH PAH exceedance depth
- Unbounded HH PAH exceedance depth
- No HH PAH Exceedance

Notes

1. Ground surface elevations for individual boring locations extracted from a publicly available Google Earth DEM and are approximate only. Ground surface and stratigraphic contacts between individual locations were interpolated linearly and may differ significantly in real life from depicted.
2. Depths to bedrock and till in the vicinity of DU05 are informed by boring SB-304 which is not depicted in this figure.
3. Depicted groundwater elevations are based on drilling log soil moisture observations, groundwater gauging activities and the inferred control of the Presumpscot Formation on groundwater elevations. Groundwater elevations depicted may not be fully representative of actual groundwater conditions at individual locations.

Drawn: DPJ

Approved: SAV

Date: 8/23/2024

Contract No. W912WJ-19-D-0005

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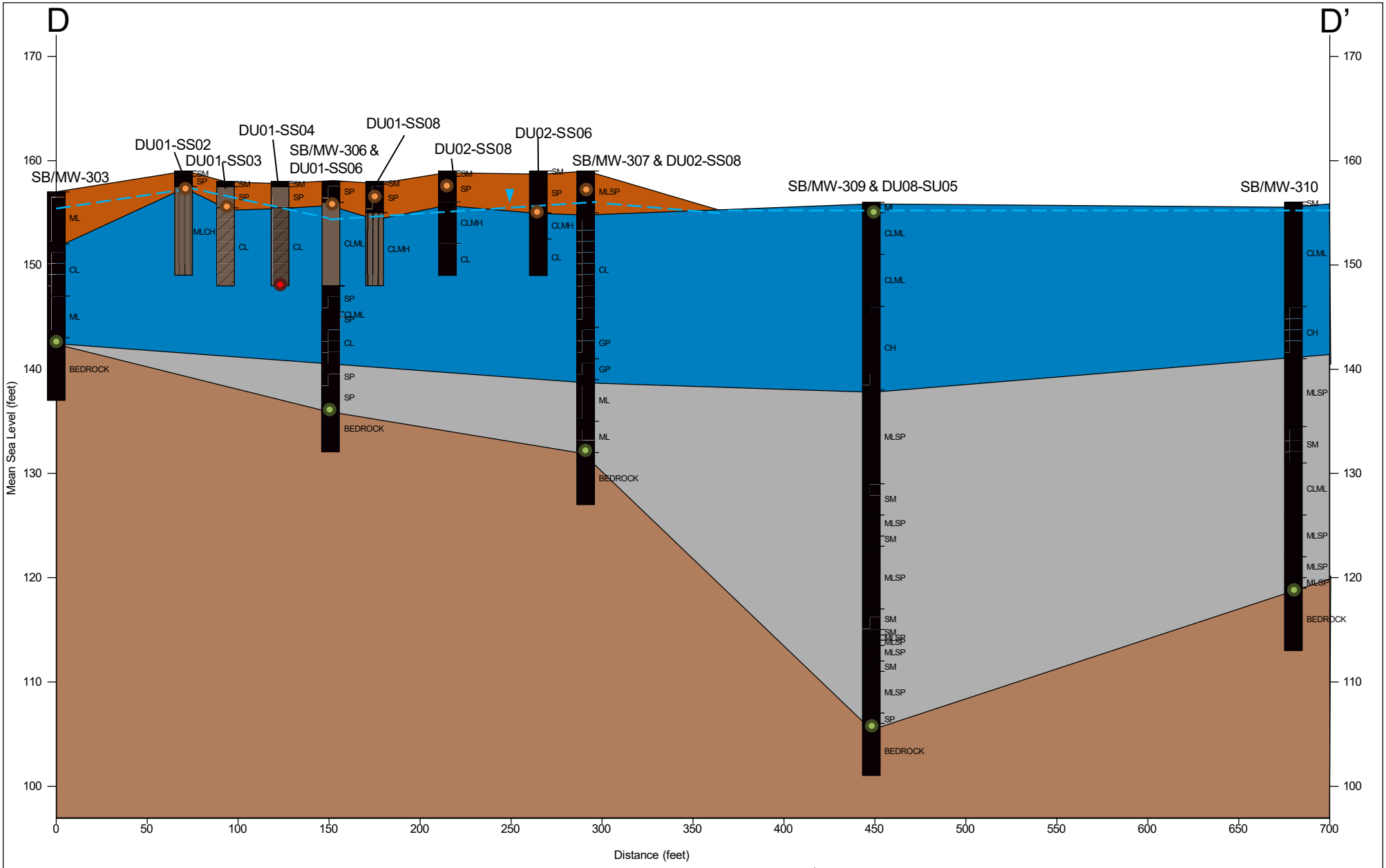


Figure A-5-5

Overburden
Cross Section D-D'

US Army Corps of Engineers ®

Former Dow Airforce Base

Bangor, Maine
Formerly Used Defense Site (FUDS)
Property and Project No. D01ME0004 02
Conceptual Site Model
U.S. Army Corps of Engineers, New England District

Legend

- Fill
- Presumpscot Formation
- Till
- Bedrock
- Inferred Groundwater Surface
- Bounded HH PAH exceedance depth
- Unbounded HH PAH exceedance depth
- No HH PAH Exceedance

Notes

1. Ground surface elevations for individual boring locations extracted from a publicly available Google Earth DEM and are approximate only. Ground surface and stratigraphic contacts between individual locations were interpolated linearly and may differ significantly in real life from depicted.
2. Depicted groundwater elevations are based on drilling log soil moisture observations, April 2024 groundwater gauging activities and the inferred control of the Presumpscot Formation on groundwater elevations. Groundwater elevations depicted may not be fully representative of actual groundwater conditions at individual locations.

Drawn: DPJ

Approved:SAV

Date: 8/23/2024

Contract No.
W912WJ-19-D-0005

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U.S. Army Reserve

Shaw Brook

Hildreth Street North

BIA Runway

Recreational Trail

Intermittent Steam With Flow Direction

RV001 RV002 RV003 RV004 RV005 RV006 RV007 RV008 RV009 RV010 RV011 RV012 RV013 RV014 RV015 RV016 RV017 RV018 RV019 RV020 RV021 RV022 RV023 RV024 RV025 RV026 RV027 RV028 RV029 RV030 RV031 RV032 RV033 RV034 RV035 RV036 RV037 RV038 RV039 RV040 RV041 RV042 RV043 RV044 RV045 RV046 RV047 RV048 RV049 RV050

VP001 VP002 VP004 VP005 VP008 VP009 VP010 VP011 VP012

Legend

- FUDS Project Area
- Native (South) / Historical Fill (North) Delineation
- USACE Delineated Wetlands
- USFWS National Wetlands Inventory
- Property Boundary
- Sediment Sample Location
- Surface Water Sample Location
- Pore Water Sample Location
- RV Stream Sample Locations
- VP Vernal Pool Sampling Locations
- Potential Source Area Decision Unit
- Downgradient Upland Soil Decision Unit (DU07)
- Wetland Soil Soil Decision Unit (DU08)
- Native Soil Background Decision Unit (DU09)

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US Army Corps of Engineers.

Former Dow Military Airfield

Bangor, Maine

Formerly Used Defense Site (FUDS)

Property and Project No. D01ME0004 02

SEDIMENT, SURFACE WATER AND PORE WATER SAMPLING LOCATIONS - MAY AND JUNE 2018

Conceptual Site Model

U.S. Army Corps of Engineers, New England District

Figure A-5-6

Drawn: DWM	Approved: SAV
Projection: NAD83 2011 State Plane Maine East FIPS 1801 (US Feet)	
Contract No. W912WJ-16-D-0004	Date: 11/24/2021

Basemap: Spring 2019 leaf-off conditions Maine Statewide Orthoimagery Project <https://gis.maine.gov/arcgis/> (Accessed May 2021).
Propery boundaries: City of Bangor <https://bangormaine.gov/gis/>, Maine Office of GIS <https://maine.gov/megis/maps/> (Accessed May 2021).
U.S. Army Corp of Engineers (USACE) delineated wetlands and vernal pool locations: Watermark Environmental, Inc., Final Site Investigation Summary Report, January 2013.
Maine wetlands: U.S. Fish and Wildlife Service (USFWS) <https://www.fws.gov/> (Accessed May 2021).

ATTACHMENT B

Daily Field Reports

Mabbett
Scientists | Engineers | Program Managers

REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **August 31, 2023**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	17

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Cassidy E. Way, QEP

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Broken clouds with 69% humidity. 15 mph wind from northwest	Passing clouds with 40% humidity. 14 mph wind from the northwest	70	59

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Tailgate Health and Safety Meeting.	Mabbett, Maine Tree & Landscape	6	0715-0735	0.33
Gather equipment and collect equipment blank for DU07	Mabbett	4	0735-0805	0.5
Clear paths to proposed sonic drilling locations	Mabbett, Maine Tree &Landscape	3	0830-1315	4.66
Mobilize workstation to DU08-SU04 and Premark grid centers	Mabbett	3	0805-0905	1.0
Collect ISM sample, and replicates for DU08-SU04	Mabbett	3	0905-1220	3.25
Lunch Break	Mabbett	3	1230-1300	0.5
Mobilize workstation to DU08-SU03	Mabbett	3	1300-1325	0.42
Collect ISM sample for DU08-SU03	Mabbett	3	1325-1500	1.42
Mobilize workstation to DU08-SU05	Mabbett	3	1500-1530	0.5
Collect ISM sample for DU08-SU05	Mabbett	3	1530-1645	1.25
Set up logs and cribbing in wet spots on trails to sonic drilling locations	Mabbett, Maine Tree &Landscape	3	1400-1715	3.25
Demob work station and decon tooling	Mabbett	3	1645-1715	0.5

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held when all staff on-site. Daily Health & Safety Meeting and Site Inspection Checklist #013 filled out by Site Superintendent with signatures for on-Site personnel and on-site subcontractors

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Arrow 100+ GPS Unit	7.5
Mabbett	Mini-RAE PID	7.5
Maine Tree & Landscape	Gyro-Trac forestry brush hogger	6
Maine Tree & Landscape	Caterpillar 239D3 skid steer	6

ADDITIONAL REMARKS

- Paths were cut to all proposed sonic boring locations.
- Proposed location for SB-308 was moved north. Current location has rig advancing coring in standing water in the middle of a localized wetland. Moving proposed location will improve safety by reducing potential for slips, trips and falls damage and reduce potential damage to sensitive habitats.
- ISM samples collected from DU08-SU03, SU04 and SU05.
- Peak PID reading of 27.6 ppm measured in DU08-SU04-20-C.
- No VOCs detected via PID in cores within DU08-SU03 and DU0U-SU05.

Prepared by Cassidy E. Way, signed on her behalf by: 

CONTRACTOR/SUPERINTENDENT — August 31, 2023 DATE



PHOTO 001: Forestry brush hogger. Trails were marked out and cleared to avoid removing trees with limb diameters greater than 3”



PHOTO 002: Collecting cores with DU08-SU04.



PHOTO 003: Skid steer equipped with log grabber. Machine was used to position logs over wet areas to allow sonic drill rig to travserse without leaving ruts in the soil.



PHOTO 004: Trail cut adjacent to snow mobile trail in woods to allow access to proposed monitoring well locations.

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **September 1, 2023**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	18

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Cassidy E. Way, QEP

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Sunny with 83% humidity. 5 mph wind from west	Sunny with 42% humidity. 7 mph wind from the north	77	53

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pack samples collected already, tailgate H&S prep for field sampling	Mabbett	4	0810-0840	0.5
Mob to DU08-SU07 and set up sampling workstation	Mabbett	4	0840-0910	0.5
Collect ISM sample DU08-SU07 and mark out grid centers for remaining DU08 SUs	Mabbett	4	0910-1050	1.67
Move workstation to DU08-SU06	Mabbett	4	1050-1115	0.42
Collect ISM sample DU08-SU06	Mabbett	4	1115-1230	1.25
Demob equipment to connex trailer	Mabbett	4	1230-1308	0.63
Take samples to analytical laboratory	Mabbett	2	1308-1508	2

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held when all staff on-site. Daily Health & Safety Meeting and Site Inspection Checklist #014 filled out by Site Superintendent with signatures for on-Site personnel and on-site subcontractors

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Arrow 100+ GPS Unit	5
Mabbett	Mini-RAE PID	5

ADDITIONAL REMARKS

- DU01-DU07 ISM sampling complete. 5 out of 7 DU08-SUs complete.
- Peak PID reading of 12.1 ppm measured in DU08-SU06 increment 10 at 6” bgs.

Prepared by Cassidy E. Way, signed on her behalf by:

CONTRACTOR/SUPERINTENDENT

September 1, 2023
DATE



PHOTO 001: IDW drum consisting of soil cuttings from the direct push technology (DPT) soil investigation. Drum staged next to connex trailer and secured with plastic wrap.



PHOTO 002: Drum Labels for IDW Drum.



PHOTO 003: Soil core for DU08-S806-10 which had a peak PID reading of 12.1 ppm at a depth of 6” below ground surface (bgs)

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **September 11, 2023**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	19

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Justin C. Idzenga, PG

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Low clouds with 93% humidity and 3 mph winds from the north.	Cloudy with light to heavy passing rain with 86% humidity and 4 mph wind from the north.	72	64

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup ice and field supplies	Mabbett	1	0815-0845	0.5
Organized bottle ware and equipment. Site walk	Mabbett	1	0845-0900	0.25
Drew Clemens on-Site. Field team drove to the National Guard facility to observe exposed outcrop of the Brewer Formation. Conduct Site walk and identified all 12 monitoring well points. Evaluate difficult to access areas near MW-308, MW-309, MW-310, and MW-312. Mark out monitoring well locations. Set up weatherized workstation and calibrate equipment.	Mabbett & USACE	1	0900-1250	3.50
Cascade on-Site.	Cascade	1	1250	0.00
Cascade staged equipment. Complete Site walk with Cascade. Located areas of increase mud and water between monitoring well points. Filled 2 - 275-gallon totes with water from hydrant tap off of Hildreth Road North.	Mabbett, Cascade & USACE		1250-1420	1.5
Tailgate health and safety meeting prior to Sonic Drilling.	Mabbett, Cascade & USACE	1	1420-1450	0.50
Cascade setting up on MW-302. Getting equipment together. Mabbett setting up sampling table.	Mabbett & Cascade	1	1450-1600	1.2
Perform sonic drilling at MW-302 to 25-feet. Discrete soil sample collected at 22'-24'	Mabbett & Cascade	1	1600-1730	1.5
Debriefing, clean and secure site	Mabbett & Cascade	1	1730-1745	0.25

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES ☐ NO	
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES ☒ NO	
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES ☒ NO	
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES ☒ NO	

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to sonic drilling activities. Daily Health & Safety Meeting and Site Inspection Checklist #015 filled out by Site Superintendent with signatures for on-Site staff including Cascade & USACE (Drew Clemens). Reviewed sonic drilling specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Cascade	Sonic Drill Rig, including supporting materials (core barrels, override casing, etc.)
Cascade	Skid steer
Cascade	IDW containers (55-gallon steel drums) and non-potable water totes

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Eos Positioning Systems #21613951 GPS Unit	9.5
Mabbett	Mini-RAE PID	1.5
Cascade	Track Mounted Sonic Rig	5

ADDITIONAL REMARKS

- Reviewed alternate locations for MW-303, MW-312, and MW-308 with Drew Clemens and Cascade.
- Drew Clemens expressed USACE's preference for splitting the difference between the original location of MW/SB-308and proposed location for and MW/SB-308R to keep the well/boring as close as feasible to the debris area at the southwestern portion of DU04. Final location was marked in the field.
- Conferenced with Drew Clemens regarding placing gravel (bluestone) in between the logs placed in the mud portions of the existing trail between MW-309 and MW-312. Mabbett is requesting USACE authorization to place gravel to stabilize particularly muddy portions of the existing recreational trail to enable rig and support skid steer access to MW/SB-312. A 5' thick glacial till interval was identified atop of the bedrock surface from 19'-24' bgs.
- Advanced one sonic boring to 25' (one foot below top of bedrock) at MW/SB-302. A one-foot intact rock core was acquired from 24'-25'. One discrete soil sample was collected from 22'-24' for VOCs (Terracore), PAHs', and TAL metals.
- A lab courier pickup is scheduled for tomorrow afternoon. All samples will be submitted within the holding time.
- Remainder of boring (anticipated to be 25'-30') will be completed 9/12.
- PID screening data was low throughout the first 10' feet of MW-302. Highest reading was 3.3 ppmv at the top of the boring within the broken concrete tarmac.

Prepared by Justin Idzenga, signed on his behalf by: Michael Bloom — CONTRACTOR/SUPERINTENDENT — September 12, 2023 — DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **September 12, 2023**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	20

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Justin C. Idzenga, PG

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Light rain and fog with 95% humidity and 4 mph winds from the southeast.	Drizzle and fog with 93% humidity and 4 mph winds from the southeast.	70	64

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup ice and field supplies	Mabbett	1	0630-0645	0.25
Onsite. Prepared Sampled for pickup. Cascade already onsite.	Mabbett	1	0645-0705	0.33
Drew Clemens onsite. Tailgate health and safety meeting prior to Sonic Drilling.	Mabbett, Cascade & USACE	1	0705	0.0
Cascade staged equipment, topped off water totes, and built a decontamination pad on the tarmac east of MW-302 and south of the Conex box. Cascade drilled MW-302 to 30'. Monitoring well set to 29' and screened 29'-19'. Top of bedrock is 24'.	Mabbett, Cascade & USACE	1	0705-1205	5.0
Patrick from Maine Tree and Landscapes onsite. Eli and Patrick complete site walk to observed vertically placed Fir trees on the muddy path between MW-309 and MW-312. Patrick broke down the fir tree into woodchips to increase path stability for the drill rig and skid steer. Patrick offsite at 1030.	Mabbett	1	0900-1030	1.5
Uniship on and offsite to pick up samples taken from 22'-24' at MW-302.	Mabbett	1	1054-1057	.05
Justin, Drew, and Eli offsite to observe stickup wells finished with coarse sand and gravel. Sand and gravel packs may be used in place of cement well pads due to frost jacking caused by the Presumpscot Clay. Drew offsite at 1300.	Mabbett & USACE		1205-1300	0.92
Perform sonic drilling at MW-305 to 37'. Bedrock at 33.5'. Discrete sample collected at 33.5'-31.5'.	Mabbett & Cascade	1	1300-1645	3.75
clean and secure site	Mabbett & Cascade	1	1645-1700	0.25

JOB SAFETY			
	WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES ☐ NO	
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES ☒ NO	
	WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES ☒ NO	
	WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES ☒ NO	

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to sonic drilling activities. Daily Health & Safety Meeting and Site Inspection Checklist #016 filled out by Site Superintendent with signatures for on-Site staff including Cascade & USACE (Drew Clemens). Reviewed sonic drilling specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Landscaper	Brush Hog
Cascade	Skid Steer
Cascade	IDW containers (55-gallon steel drums) and non-potable water totes

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Eos Positioning Systems #21613951 GPS Unit	10.5
Mabbett	Mini-RAE PID	10.5
Landscaper	Brush Hog	1.5
Cascade	Track Mounted Sonic Rig	10.5
Cascade	Skid Steer	10.5

ADDITIONAL REMARKS

- Resumed MW/SB-302 bedrock core, completed to 30 feet bgs, with RQDs indicative of competent bedrock.
- Discussed well completion specifications with Drew Clemens, who reiterated that the previous no bedrock investigation limitation for the project had been removed. Consensus decision between Mabbett and USACE was made to keep the QAPP specified 10-foot well screen section, and install a hybrid well within the top 5-feet of bedrock and extending to the top of the glacial till interval. This approach is more conservative as the well screen will also capture contaminants (solvent) if present in the surficial bedrock interval, and will provide continuity for well screen intervals in other portions of the site if the till layer is not present (strictly deep overburden wells would be anticipated to be dry in this situation if not installed with the screen in the surficial bedrock).
- Land clearing contractor returned to site to evaluate recreational trail access to MW/SB-312 and perform additional clearing to move MW/SB-303 to the south to provide appropriate distance between the boring/well and the unmarked storm drain line. While on-Site, also used brush hog to grind down the tops of the logs placed to facilitate access to well locations along the recreational trail.
- Drew Clemens recommended that all stickup wells (which excludes MW-302 installed in the existing tarmac) should be finished with a sand and gravel pack rather than a cement pad. Due to the upward displacement caused by the freezing of the Presumpscot Clay, also known as frost jacking or frost

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heaving, a cement pad may be dislodged from the stickup well and be displaced several inches upward. To remedy this, Drew recommends a sand and gravel pack that was used at other stickup wells at a nearby salvage yard.

- A lab courier pickup is scheduled for tomorrow afternoon. All samples will be submitted within the holding time.
- Monitoring well MW-305 will be installed by cascade first thing in the morning 9/13.
- PID screening data ware low throughout most of the MW-305 Boring. Highest reading was 2.9 ppmv at the 8' depth.

Prepared by Justin Idzenga, signed on his behalf by: Michael Bloom — September 13, 2023

CONTRACTOR/SUPERINTENDENT — DATE













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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **September 13, 2023**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	21

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Justin C. Idzenga, PG

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Low clouds with 92% humidity and 6 mph winds from the south.	Mostly cloudy with 86% humidity and 8 mph winds from the south.	75	66

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup ice and field supplies	Mabbett	1	0630-0645	0.25
Onsite. Prepared Sampled for pickup. Cascade already onsite.	Mabbett	1	0645-0700	0.25
Tailgate health and safety meeting prior to Sonic Drilling.	Mabbett & Cascade	1	0700	0.0
Cascade drilled MW-305 to 37'. Monitoring well set to 37' and screened 37'-27'. Top of bedrock is 32'.	Mabbett & Cascade	1	0700-1030	3.5
Cascade drilled MW-301 to 41'. Well set at 40'-30' with a foot of bentonite chips one foot below. Top of bedrock is 35'. Cascade refilled both 275' totes from the nearby hydrant.	Mabbett & Cascade	1	1030-1700	6.5
Katahdin on and offsite to pick up sample taken from 31.5'-33.5' at MW-305.	Mabbett	1	1100-1105	.08
Completed gauging of MW-301, MW-302, and MW-305	Mabbett	1	1645-1700	0.25
Clean and secure site	Mabbett & Cascade	1	1700-1715	0.25

JOB SAFETY			
	WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
	WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
	WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to sonic drilling activities. Daily Health & Safety Meeting and Site Inspection Checklist #017 filled out by Site Superintendent with signatures for on-Site staff including Cascade. Reviewed sonic drilling specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Eos Positioning Systems #21613951 GPS Unit	10.75
Mabbett	Mini-RAE PID	10.75
Cascade	Track Mounted Sonic Rig	10.75
Cascade	Skid Steer	10.75

ADDITIONAL REMARKS

- Resumed MW/SB-305 bedrock core, completed to 37 feet bgs, with RQDs indicative of competent bedrock. Well set at 37' with 10 feet of screen set at the 37'-27 interval.
- MW/SB-301 was drilled to 41', well screen set at the 40'-30' interval with top od bedrock located at 35'.
- Drum inventory taken: 6 – return water, 3 – soil cuttings and cores, 1 soil ISM, & 1 plastic sheeting and Geoprobe sleeves from subsurface ISM.
- A round of water level gauging was conducted at the end of the day:
  - MW-301 depth to water (DTW) = 2.31, total well depth (TWD) = 40.21
  - MW-302 DTW = 3.75, TWD = 29.06
  - MW-305 DTW = 0.85, TWD = 36.50
- A lab courier pickup is scheduled for tomorrow afternoon. All samples will be submitted within the holding time.
- Monitoring well MW-304 will be drilled by cascade first thing in the morning 9/14.
- PID screening data were low throughout most of the MW-301 Boring. Highest reading was 2.9 ppmv at the 27' depth.
- Mabbett & USACE geologists discussed changes to proposed well development scope to account for heavy fines content of the glacial till layer overlying bedrock. Concurrence on performance based approach with Waterra hydrolift and whale pump for drawdown and groundwater quality parameters.
- Mabbett discussions on Hurricane Lee tracking for Maine, anticipating weather impacts Saturday 9/16 with heavy rain and 30+ mph winds, with favorable conditions returning mid-day Sunday 9/17.

Prepared by Justin Idzenga, signed on his behalf by: Michael Bloom — CONTRACTOR/SUPERINTENDENT — September 14, 2023 — DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **September 14, 2023**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	22

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Justin C. Idzenga, PG

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Light rain and fog with 95% humidity and 4 mph winds from the southeast.	Drizzle and fog with 93% humidity and 4 mph winds from the southeast.	70	64

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup ice and field supplies	Mabbett	1	0630-0645	0.25
Onsite. Prepared Sampled for pickup. Cascade already onsite.	Mabbett	1	0645-0700	0.25
Tailgate health and safety meeting prior to Sonic Drilling.	Mabbett & Cascade	1	0700	0.0
Completed gauging of MW-301, MW-302, and MW-305	Mabbett	1	0730-0745	0.25
Cascade drilled MW-304 to 35'. Monitoring well set to 35' and screened 35'-25'. Top of bedrock is 30'. Sample SB-304 collected at the 30'-28' interval at 10:00.	Mabbett & Cascade	1	0730-1300	5.5
Cascade drilled MW-306 to 26'. Monitoring well set to 26' and screened 26'-16'. Top of bedrock is 21.5'. Sample SB-306 collected at the 21.5'-20' interval at 15:45. DUP10 was taken from this location.	Mabbett & Cascade	1	1330-1700	3.5
Uniship on and offsite to pick up samples: MW-301 35'-33' at 14:00 (9/13/23) and MW-304 30'-28' at 10:00	Mabbett	1	1100-1105	.08
Completed gauging of MW-301, MW-302, MW-304, and MW-305	Mabbett	1	1645-1700	0.25
clean and secure site	Mabbett & Cascade	1	1700-1715	0.25

JOB SAFETY			
	WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
	WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
	WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to sonic drilling activities. Daily Health & Safety Meeting and Site Inspection Checklist #016 filled out by Site Superintendent with signatures for on-Site staff including Cascade & USACE (Drew Clemens). Reviewed sonic drilling specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Cascade	Skid Steer
Cascade	IDW containers (55-gallon steel drums) and non-potable water totes

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Eos Positioning Systems #21613951 GPS Unit	10.75
Mabbett	Mini-RAE PID	10.75
Cascade	Track Mounted Sonic Rig	10.75
Cascade	Skid Steer	10.75

ADDITIONAL REMARKS

- Drilled MW-304, completed to 35 feet bgs to bedrock. Bedrock at this location appeared more fractured with a very low RQD compared to the other locations. Thin laminae, slickensides, and iron staining present within the broken-up dark grey Siltstone. Well set at 35' with 10 feet of screen set at the 35'-25' interval. MW-306 was drilled to 26', well screen set at the 26'-16' interval with top od bedrock located at 21.5'. RQD of 74%; highest out of the five soil borings drilled so far.
- Drum inventory taken: 10 – return water, 5 – soil cuttings and cores, 1 soil ISM, & 1 plastic sheeting and sleeves.
- A round of water level gauging was conducted at the beginning and at the end of the day. (Measured below ground surface)
  - 07:30
    - MW-301 DTW: 2.68
    - MW-302 DTW: 3.77
    - MW-305 DTW: 0.75
  - 16:45
    - MW-301 DTW: 2.60
    - MW-302 DTW: 3.80
    - MW-304 DTW: 1.10
    - MW-305 DTW: 0.80
- Samples collected the afternoon of 9/14 and the morning of 9/15 will be dropped off at the lab by a Mabbett employee on the way back to the office.
- Monitoring well MW-306 will be finished by cascade first thing in the morning 9/15.
- A well pad will be built tomorrow for MW-302 in the tarmac. Cascade will have to rent a drill and pick up cement in the morning.

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- PID screening data were low throughout most of the MW-304 and MW-306 Boring. Highest reading was 2.5 ppmv at the 7’ depth and 1.8 ppmv at the 8’ depth respectively .

Prepared by Justin Idzenga, signed on his behalf by:  September 14, 2023

CONTRACTOR/SUPERINTENDENT DATE









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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **September 15, 2023**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	23

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Justin C. Idzenga, PG

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Cloudy with 3-6 mph winds from the west and northwest. 89% humidity	Partly cloudy with 12-18 mph wind from north. 57% humidity	67	53

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup ice and field supplies	Mabbett	1	0645-0700	0.25
Cascade onsite with rented saw and cement. Prepared Samples for drop off at the lab later today	Mabbett	1	0700-0715	0.25
Tailgate health and safety meeting prior to Sonic Drilling.	Mabbett & Cascade	1	0715	0.0
Completed gauging of MW-301, MW-302, MW-304, MW-305, and MW-306	Mabbett	1	0730-0745	0.25
Cascade grouted well MW-306. MW-306 was set at 26' and screened 26'-16'. Top of bedrock is 21.5'. Sample SB-306 collected at the 21.5'-20' interval at 13:45. (DUP9 was taken at this location)	Mabbett & Cascade	1	0730-1300	5.5
Cascade used rented saw to cut into the tarmac to create the base of the well pad for MW-302. Following cutting, Cascade mixed cement and filled in the cement well pad. Cascade secured equipment for the weekend storm.	Mabbett & Cascade	1	1330-1700	3.5
Mabbett took drum inventory and covered drums with a tarp. Tarp was secured with rope and bungie cords.	Mabbett	1	1100-1105	.08
clean and secure site	Mabbett & Cascade	1	1100-1115	0.25

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to sonic drilling activities. Daily Health & Safety Meeting and Site Inspection Checklist #016 filled out by Site Superintendent with signatures for on-Site staff including Cascade. Reviewed sonic drilling specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Cascade	Skid Steer
Cascade	IDW containers (55-gallon steel drums) and non-potable water totes

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Eos Positioning Systems #21613951 GPS Unit	10.75
Mabbett	Mini-RAE PID	10.75
Cascade	Track Mounted Sonic Rig	10.75
Cascade	Skid Steer	10.75

ADDITIONAL REMARKS

- Drum inventory taken: 9 – return water, 5 – soil cuttings and cores, 1 soil ISM, & 1 plastic sheeting and sleeves.
- Drums were covered with tarp and secured at the conclusion of field work.
- A round of water level gauging was conducted at the beginning and at the end of the day. (Measured below ground surface)
  - MW-301 DTW: 2.70
  - MW-302 DTW: 3.92
  - MW-304 DTW: 4.10
  - MW-305 DTW: 0.80
  - MW-306 DTW: 2.95

Prepared by Justin Idzenga, signed on his behalf by: _____ September 15, 2023

CONTRACTOR/SUPERINTENDENT — DATE











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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **September 18, 2023**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	24

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	David W. Martin

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Mostly cloudy with 1 mph winds from the southwest and northwest. 86% humidity	Light rain with 6 mph wind from southeast. 88% humidity	64	57

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett & Cascade on-Site.	Mabbett & Cascade	1	0900	0.00
Cascade remobilized with new sonic crew (Dennis & Rob) perform sonic drilling.	Cascade	1	0900-0900	0.00
Tailgate health and safety meeting prior to Sonic Drilling.	Mabbett & Cascade	1	0900-0930	0.50
Cascade unloading equipment and IDW containers	Cascade	1	0930-00945	0.25
Site walk to review boring/well locations with new Cascade crew	Mabbett & Cascade	1	0945-1015	0.50
Preparation and setup for soil boring SB/MW-306	Mabbett & Cascade	1	1015-1100	0.75
Cascade drilled MW-306 to 33.5'. Monitoring well set to 32' and screened 32'-22'. Top of bedrock is 27'. Sample SB-306 collected at the 25'-27' interval at 12:50.	Mabbett & Cascade	1	1100-1730	6.50
Tracy Dorgan (USACE) on-Site.	USACE	1	1400-1800	4.00
Clean and secure site	Mabbett & Cascade	1	1730-1800	0.50

JOB SAFETY			
	WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
	WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
	WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to sonic drilling activities. Daily Health & Safety Meeting and Site Inspection Checklist #017 filled out by Site Superintendent with signatures for on-Site staff including Cascade. Reviewed sonic drilling specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Cascade	Plastic mats
Cascade	IDW containers (55-gallon steel drums)

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Eos Positioning Systems #21613951 GPS Unit	3.50
Mabbett	Mini-RAE PID	5.25
Cascade	Track Mounted Sonic Rig	7.0
Cascade	Skid Steer	7.0

ADDITIONAL REMARKS

- Reviewed southern soil boring locations to be accessed via the recreational trail. Additional rain over the weekend (and forecast overnight 9/18-9/19) from Hurricane Lee has exacerbated standing water and saturated soil conditions across the majority of the recreational trail needed to access SB/MW-308R, SB/MW-309, SB/MW-310, and SB/MW-3012R. Original plan and volumetric estimates to stabilize the recreational trail for drilling access with fine free gravel needs to be reevaluated.
- Tracy Dorgan (USACE) raised concern about Mabbett field lead David W. Martin serving as SSHO for the field crew, as he was not listed as an alternate SSHO in the APP for this mobilization. Mabbett's PM prepared an APP addendum, including CV, OSHA HAZWOPER training certificates, and CPR/AED & First Aid training records, which were submitted to the USACE PM for expedited approval in the evening of 9/18.
- Reviewed SB/MW-303 and SB/MW-311 locations along the geophysical delineated drain line path. USACE expressed concern about backing the borings away from the drain line location, as the intent of those locations is to evaluate potential contaminant migration via the drain line path and associated pipe bed materials. Mabbett loaded the geophysical delineation (2017) remotely onto the on-Site GPS unit. The geophysical identified delineation will be marked in the field tomorrow (9/19) and the soil borings/well installed at the closest "safe" distance possible proximate to the originally proposed locations.

Prepared by David Martin, signed on his behalf by: Michael R Bloom — CONTRACTOR/SUPERINTENDENT — September 19, 2023 — DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **September 19, 2023**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	25

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	David W. Martin

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Fog with light rain and 7 mph winds from the west. 90% humidity	Broken clouds with 7 mph wind from west and southwest. 74% humidity	70	61

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett & Cascade on-Site.	Mabbett & Cascade	1	0700	0.00
Tailgate health and safety meeting prior to Sonic Drilling.	Mabbett & Cascade	1	0700-07150	0.25
Setup for sonic drilling at SB/MW-303.	Mabbett & Cascade	1	0715-0800	0.75
Tracy Dorgan (USACE) on-Site.	USACE	1	0800	0.00
Call with on-Site staff and Mabbett management to discuss SB/MW-303 and SB/MW-311 locations, recreational trail access issues, clearing and erosion controls.	Mabbett, USACE & Cascade	1	0800-0845	0.75
Site walk to view access constraints and changed conditions along recreational trail for locations SB/MW-308R, SB/MW-309, SB/MW-310 and SB/MW-312R.	Mabbett, USACE & Cascade		0845-1000	1.25
Mark out geophysical drain line path with GPS proximate to SB/MW-303 and SB/MW-311.	Mabbett	1	1000-1100	1.00
Decon, preparation and setup for soil boring SB/MW-303	Mabbett & Cascade	1	1100-1300	2.00
Cascade drilled MW-303 to 20'. Monitoring well set to 19' and screened 19'-9'. Top of bedrock is 14'. Sample SB-303 collected at the 12'-14' interval.	Mabbett & Cascade	1	1300-1700	4.00
Clean and secure site	Mabbett & Cascade	1	1700-1730	0.50

JOB SAFETY			
	WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES ☐ NO	
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES ☒ NO	
	WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES ☒ NO	
	WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES ☒ NO	

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to sonic drilling activities. Daily Health & Safety Meeting and Site Inspection Checklist #017 filled out by Site Superintendent with signatures for on-Site staff including Cascade. Reviewed sonic drilling specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Mabbett	Sedimentation controls

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Eos Positioning Systems #21613951 GPS Unit	4.5
Mabbett	Mini-RAE PID	4.0
Cascade	Track Mounted Sonic Rig	6.0
Cascade	Skid Steer	7.0

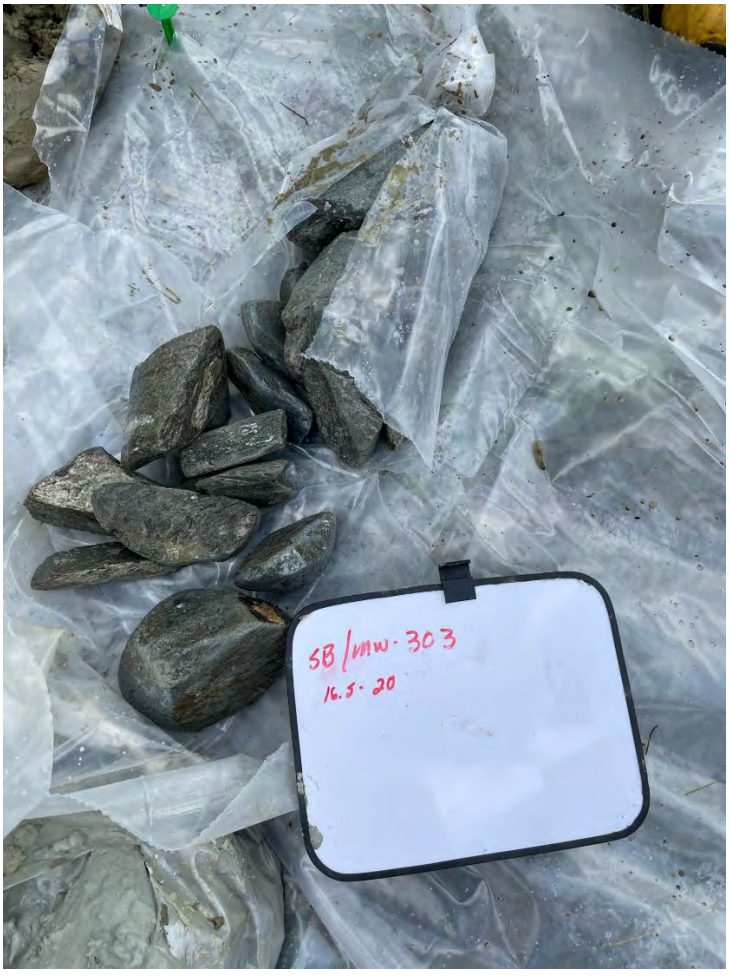
ADDITIONAL REMARKS

- Tracy Dorgan (USACE) raised concerns about previously completed clearing, implementation of sedimentation controls (no soil borings had been completed to date proximate to wetland areas), and accessing the southern well locations via the recreational trail with an emphasis on potential cross contamination resulting on repeated use of the trail.
- Mabbett marked out the geophysical delineation of the drain line with the GPS proximate to SB/MW-303 and SB/MW-311 locations. As planned location of SB/MW-303 location was confirmed to be safe distance from the drain line and installed accordingly.
- Call between Mabbett & USACE PMs and select technical leads at 1600, the result of which was the postponement of completing the four southern well/boring locations (SB/MW-308R, SB/MW-309, SB/MW-310 and SB/MW-312R) until an access plan can be updated for current site conditions. Cascade will demobilize the sonic rig after the completion of SB/MW-311 tomorrow (9/20) as to not incur additional down time charges.

Prepared by David Martin, signed on his behalf by: Michael Bloom — September 20, 2023

CONTRACTOR/SUPERINTENDENT — DATE




SB/mw-303
16.5-20

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **September 20, 2023**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	26

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	David W. Martin

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Passing clouds and 6 mph winds from the west. 78% humidity	Broken clouds with 16 mph wind from northwest. 51% humidity	71	57

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett & Cascade on-Site.	Mabbett & Cascade	1	0655	0.00
Tailgate health and safety meeting prior to Sonic Drilling.	Mabbett & Cascade	1	0700-0715	0.25
Use GPS to locate historical utility corridor that runs adjacent to proposed location for SB-311.	Mabbett	1	0715-0745	0.5
Attempt to access proposed location for SB-311 in woods. Cascade asks to move location slightly to get move away from dense tree cover.	Mabbett & Cascade	1	0715-0830	1.25
Advance SB-311 and install MW-311	Mabbett & Cascade	1	0830-1130	3.0
Tracy Dorgan (USACE) on-site	Mabbett & Cascade	1	0910	0.0
Finish well pad for MW-311	Mabbett & Cascade	1	1130-1330	2.0
Collect equipment blank off of Sonic tooling	Mabbett & Cascade	1	1450-1505	0.25
Clean and secure site	Mabbett & Cascade	1	1505-1535	0.50

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to sonic drilling activities. Daily Health & Safety Meeting and Site Inspection Checklist #018 filled out by Site Superintendent with signatures for on-Site staff including Cascade. Reviewed sonic drilling specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Mabbett	Sedimentation controls

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Eos Positioning Systems #21613951 GPS Unit	4.5
Mabbett	Mini-RAE PID	3
Cascade	Track Mounted Sonic Rig	6.0
Cascade	Skid Steer	6.0

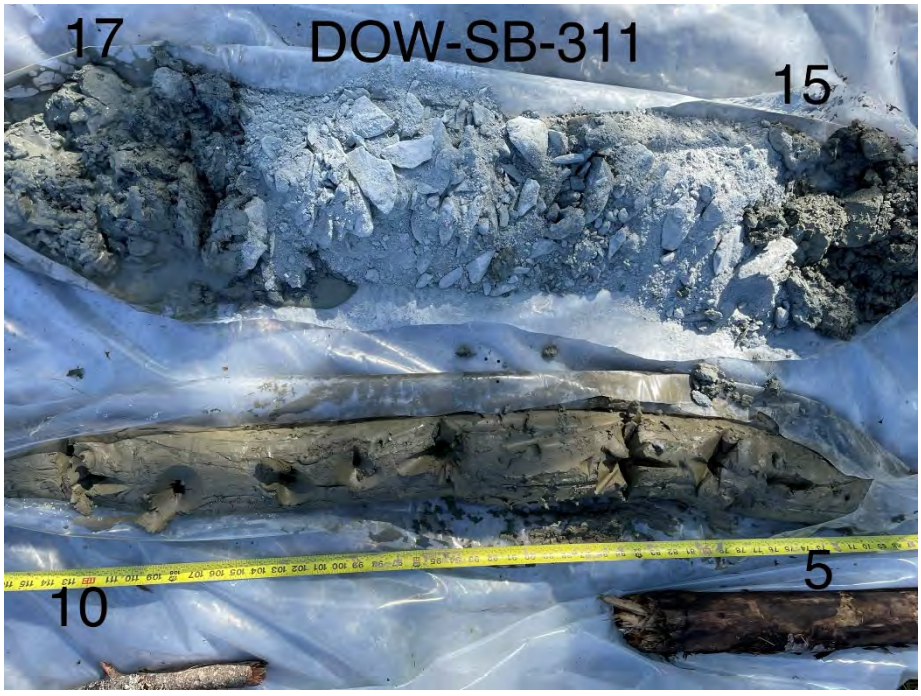
ADDITIONAL REMARKS

- Used GPS to locate utility corridor identified during Geophysical investigation. Utility corridor located adjacent to proposed location for SB-311.
- SB-311 advanced to a total depth of 22’ below ground surface (bgs). Fractured rock encountered at 14’. Bedrock encountered at 15’. Soil sample collected at 12-14’ bgs.
- MW-311 screened interval set at 10-20’ bgs.
- Collected water depths at newly installed MW-311. DTW = 1.75’. DTB = 19.41’

Prepared by David Martin, signed on his behalf by: Stephen Vedue — CONTRACTOR/SUPERINTENDENT

September 21, 2023 — DATE


1420
Bobcat


17
DOW-SB-311
15
5
10

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **September 21, 2023**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	27

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Michael L. Bloom, PG, CPG

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Scattered clouds and 7 mph winds from the north. 73% humidity	Passing clouds with 12 mph wind from north. 47% humidity	72	52

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett on-Site.	Mabbett	1	0730	0.00
Cascade demobilization of sonic rig and support equipment.	Cascade	1	0700-1100	3.00
Tailgate health and safety meeting.	Mabbett & Cascade	1	0730-0745	0.50
Collect composite soil and aqueous waste characterization samples	Mabbett	1	0745-1145	4.0
Site walk to document conditions for remaining sonic boring/well locations SB/MW-308R, SB/MW-309, SB/MW-310 and SB/MW-312R.	Mabbett	1	1145-1315	1.50
Development of MW-303	Mabbett	1	1300-1730	4.50
Sample drop off at Kathadin (Equipment blank, IDW Characterization)	Mabbett & Cascade	1	1400-1645	2.75
Clean and secure site	Mabbett & Cascade	1	1730-1800	0.50

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to sonic drilling activities. Daily Health & Safety Meeting and Site Inspection Checklist #019 filled out by Site Superintendent with signatures for on-Site staff.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Wattera Hydrolift Actuator	4.5
Mabbett	Turbidity Meter	4.5
Cascade	Water Level Meter	4.5

ADDITIONAL REMARKS

- Collected composite soil (DOW-SWC-01) and aqueous (DOW-AQWC) IDW characterization samples for QAPP/FSP listed analytical parameters. Coordination with disposal contractor and Kathadin for preferred PFAS compound list and analytical methods. Placed PFAS specific bottle ware request.
- Took drum inventory and inspected accumulation area following opening all drums for waste characterization sampling.
- Conditions to access four remaining wells have improved since earlier in the week when the decision was made to reevaluate the access plan. Limited areas of stabilization still necessary to address common access route that will be necessary for all 4 locations proximate to DU07-SU02, assuming no drastic improvement in conditions. A larger area requiring stabilization under current conditions is located between SB/MW-309 and SB/MW-312R. Mabbett will produce and distribute a Figure with inset photos to assist in the visualization of conditions and the development of an appropriate access plan.
- Development of MW-303: setup dual surge block with foot valve spaced to target 2.5-foot section of the well screen. Used Wattera Hydrolift Actuator to surge 2.5-ft sections of the well. Turbidity improvements were documented in the bedrock portion (lower) of the well screen but remained over the range of the turbidity meter in the till portion (higher) of the well screen. Terminated surge blocking of the upper 2.5-ft portions of the well screen after 15-gallons (11.5-14' bgs) and 20-gallons (9-11.5' bgs) recovered per respective interval. Very little drawdown (0.2') of the water column was observed during surge block groundwater recovery, at a rate of 0.5 gallons per minute.
- Whale pumping scheduled to be performed at MW-303 on 9/22.

Prepared by Michael L. Bloom, PG, CPG: Michael L Bloom — September 25, 2023

CONTRACTOR/SUPERINTENDENT — DATE



View of current condition of common access route proximate to DU07-SU02.



View of current condition of common access route to the south beyond DU07-SU02.






POLARIS

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **September 22, 2023**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	28

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Michael L. Bloom, PG, CPG

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Summy with 1 mph winds from the north. 74% humidity	Passing clouds with 8 mph wind from the south. 53% humidity	70	45

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett on-Site.	Mabbett	1	0640	0.00
Tailgate health and safety meeting.	Mabbett	1	0640-0700	0.33
Resume development of MW-303 (pumping).	Mabbett	1	0700-0940	2.67
Development of MW-301 (surging & pumping).	Mabbett	1	0940-1400	4.33
Clean and secure site	Mabbett	1	1400-1430	0.50

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES ☐ NO	
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES ☒ NO	
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES ☒ NO	
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES ☒ NO	

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to sonic drilling activities. Daily Health & Safety Meeting and Site Inspection Checklist #020 filled out by Site Superintendent with signatures for on-Site staff.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received

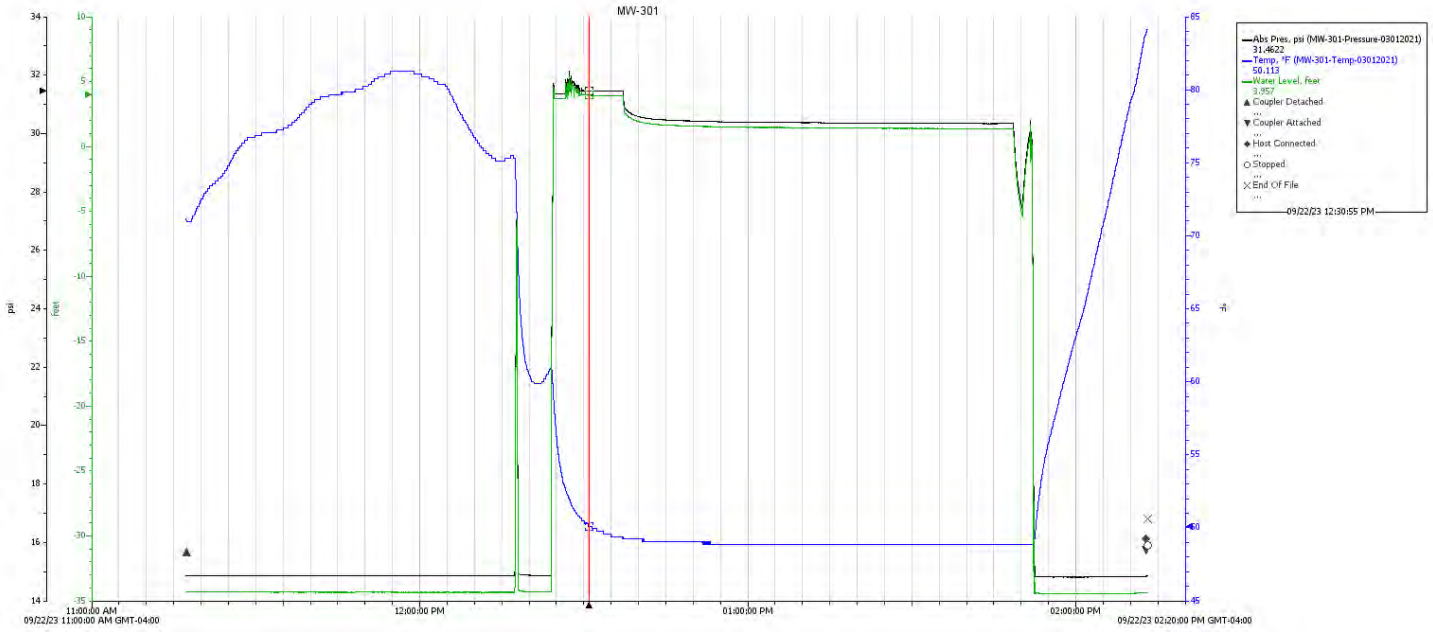
EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Wattera Hydrolift Actuator	7.0
Mabbett	Turbidity Meter	7.0
Mabbett	Water Level Meter	7.0

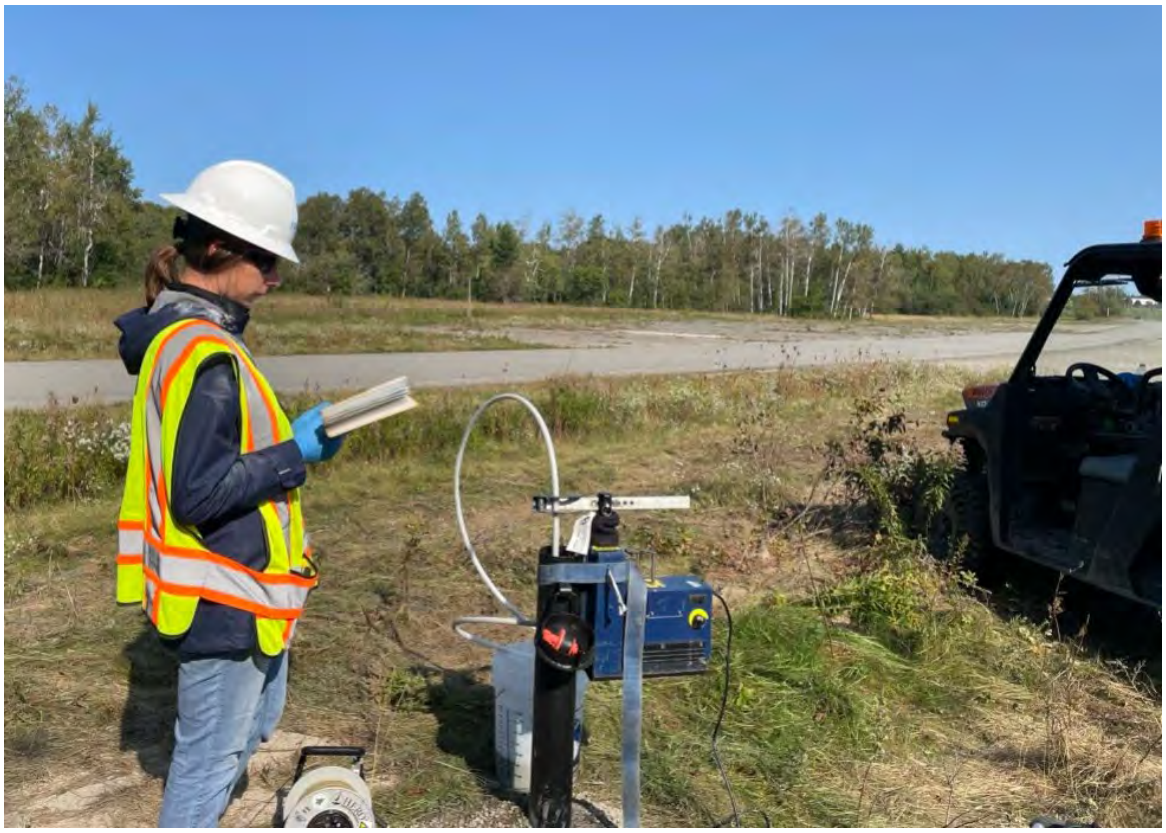
ADDITIONAL REMARKS

- After dual surge block in afternoon 9/21, started with whale pump portion of development at MW-303. Programmed and installed transducer to collect continuous drawdown/recharge data. Initiated pumping at 0.25 gpm from the center of the screen interval, with periodic (5-minute intervals) recording of depth to water, flow rate, temperature, specific conductance, pH, ORP and turbidity. Stabilized drawdown at -0.15' at 0.25 gpm with turbidity levels below 20 NTU within 30 minutes of pumping (Specific Capacity = 1.67 gpm/ft). Increased flow rate to 1.15 gpm and documented -0.60' of drawdown (Specific Capacity = 1.92 gpm/ft) with turbidity less that 5 NTU. Based on high SpC with low levels of drawdown, low turbidity values under pumping conditions, and considering the relatively large volume of IDW generated, determined the completion of development at MW-303 without performing additional surge blocking and retesting.
- Development of MW-301: setup dual surge block with foot valve spaced to target 2.5-foot section of the well screen. Used Wattera Hydrolift Actuator to surge 2.5-ft sections of the well. Turbidity remained over the range of the turbidity throughout the well screen during surge blocking and foot valve groundwater extraction/sediment removal. Terminated surge blocking at each 2.5-ft portions of the well screen after 10-gallons at 0.35-0.6 gpm to attempt to establish volumetric boundary on IDW generated (pending pumping results). After dual surge block, started with whale pump portion of development at MW-301. Programmed and installed transducer to collect continuous drawdown/recharge data. Initiated pumping at 0.36 gpm from the center of the screen interval, with periodic (5-minute intervals) recording of depth to water, flow rate, temperature, specific conductance, pH, ORP and turbidity. Stabilized drawdown at -2.57' at 0.4 gpm with turbidity levels below 50 NTU within 1 hour of pumping (Specific Capacity = 0.16 gpm/ft).
- Did not reperform surge blocking and pumping due to time of day and remaining stabilization efforts necessary to secure IDW staging area before work stoppage imposed by OSHA 30-hour training requirement for SSHOs.

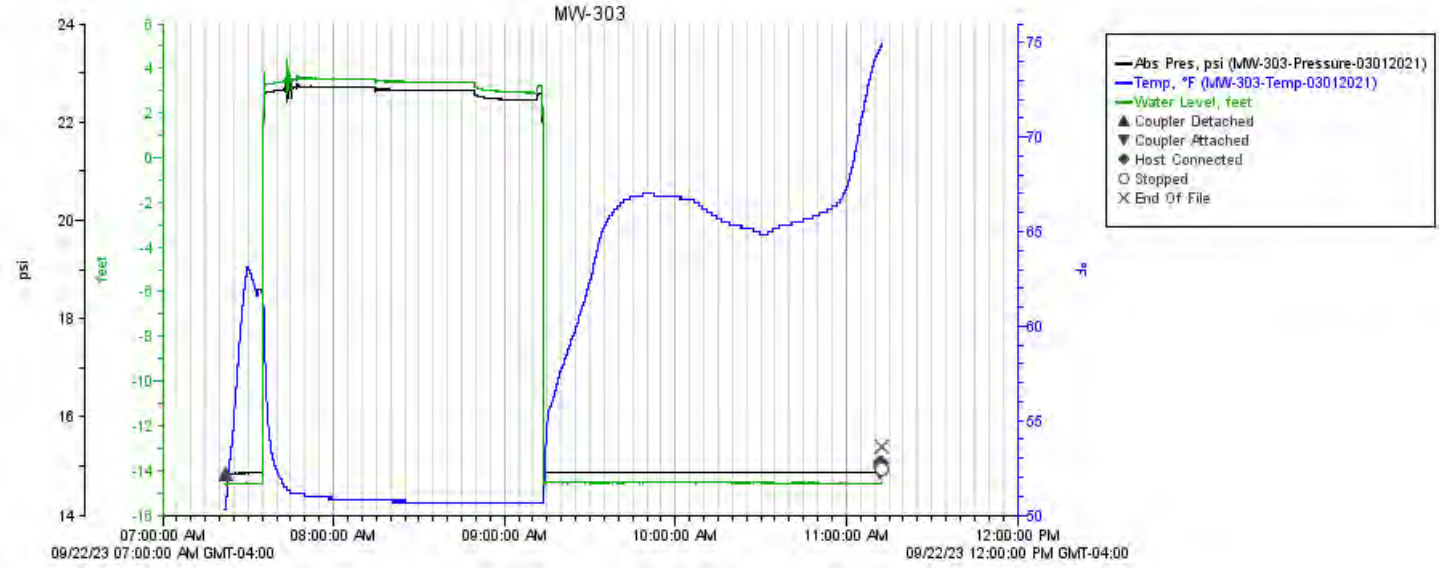
Prepared by Michael L. Bloom, PG, CPG: Michael L. Bloom — CONTRACTOR/SUPERINTENDENT — September 25, 2023 — DATE


MW-301
psi
feet
°F
Abs Pres, psi (MW-301-Pressure-03012021)
31.4622
Temp, °F (MW-301-Temp-03012021)
50.113
Water Level, Feet
3.957
Coupler Detached
Coupler Attached
Host Connected
Stopped
End Of File
09/22/23 12:30:55 PM
11:00:00 AM
09/22/23 11:00:00 AM GMT-04:00
12:00:00 PM
01:00:00 PM
02:00:00 PM
09/22/23 02:20:00 PM GMT-04:00






DURACELL


MW-303
psi
feet
°F
24
22
20
18
16
14
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
75
70
65
60
55
50
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10:00:00 AM
11:00:00 AM
12:00:00 PM
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09/22/23 12:00:00 PM GMT-04:00
Abs Pres, psi (MW-303-Pressure-03012021)
Temp, °F (MW-303-Temp-03012021)
Water Level, feet
Coupler Detached
Coupler Attached
Host Connected
Stopped
End Of File



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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: October 9, 2023

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	29

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Justin Idzenga

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Scattered clouds, with 0-5 mph wind from the south. 96% humidity	Scattered clouds with 13 mph wind from the south. 51% humidity	54	60

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett on-Site.	Mabbett	1	0740	0.00
Tailgate health and safety meeting and PiD calibration prior to ISM.	Mabbett	1	0740-0810	0.30
Conducted ISM for DU08-SS01, DU08-SS02 (including grain size), DU09-SS01 (MS/MSD), DU09-SS02 (including grain size), and DU09-SS09.	Mabbett	1	0810-1610	0.5
deconned equipment and store samples	Mabbett	1	1610-1625	0.25
Clean and secure site	Mabbett	1	1625-1630	0.50

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to ISM activities. Daily Health & Safety Meeting and Site Inspection Checklist #018 filled out by Site Superintendent with signatures for on-Site staff. Reviewed ISM specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Mabbett	Sedimentation controls

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Eos Positioning Systems #21613951 GPS Unit	8
Mabbett	Mini-RAE PID	8

ADDITIONAL REMARKS

- Five samples collected today including two with grain size and one MS/MSD. Four SUs left in decision unit DU09

Prepared by Justin Idzenga, signed on his behalf by: _____ October 9, 2023

CONTRACTOR/SUPERINTENDENT DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: October 10, 2023

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	30

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Justin Idzenga

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Scattered clouds, with 5-7 mph wind from the south. 93% humidity	Cloudy with 8-10 mph wind from the south. 38% humidity	49	62

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett on-Site.	Mabbett	1	0630	0.00
Tailgate health and safety meeting and PiD calibration prior to ISM.	Mabbett	1	0700-0730	0.50
Drew Clemens from USACE onsite.	USACE	1	0700	0.00
Conducted ISM for DU08-SS03, DU08-SS04, DU09-SS05, and DU09-SS06.	Mabbett	1	0730-1400	6.50
Mark out locations for SB-201, SB-202 and SB-203	Mabbett	1	0830-0900	0.50
Attempt to advance SB-203 with hand auger and shovel	Mabbett	1	0900-1030	1.50
Conduct well stabilization on MW306	Mabbett	1	1425-1555	1.50
Clean and secure site	Mabbett	1	1600-1630	0.50

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to ISM activities. Daily Health & Safety Meeting and Site Inspection Checklist #019 filled out by Site Superintendent with signatures for on-Site staff. Reviewed ISM specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Mabbett	Sedimentation controls

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Eos Positioning Systems #21613951 GPS Unit	6.5
Mabbett	Mini-RAE PID	6.5

ADDITIONAL REMARKS

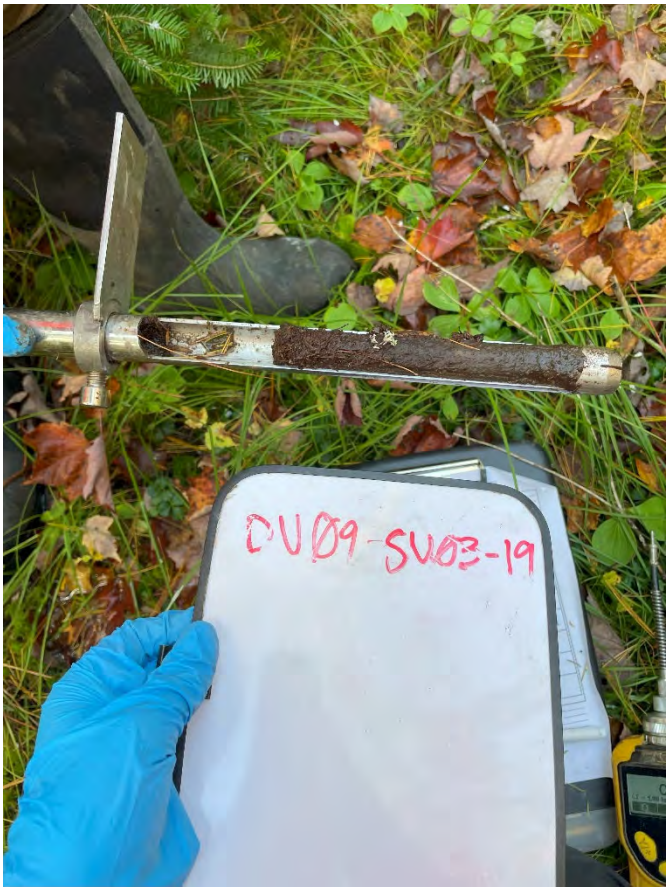
- ISM sampling complete for entire site.
- Mabbett has developed an Activity Hazard Analysis (AHA) to cover the operation of a jack hammer that may be used to break through old concrete tarmac to collect borings SB-201 and SB-202.
- Attempt to advance boring SB-203 was unsuccessful due to high volumes of surficial water filling boring. Attempted to use submersible pump to clear boring and to dig a drainage trench.
- Final depth to water (DTW) after conducting well stabilization at MW306 was 1.98'

Prepared by Justin Idzenga, signed on his behalf by:  October 10, 2023

CONTRACTOR/SUPERINTENDENT — DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: October 11, 2023

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	31

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Justin Idzenga

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Partly cloudy with no wind. 96% humidity	Broken clouds with some light rain and 7-10 mph wind from the south. 81% humidity	46	60

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett and Drew Clemens on-Site.	Mabbett & USACE	1	0630	0.00
Tailgate health and safety meeting and PiD calibration.	Mabbett	1	0700-0715	0.25
Set up Surge Block with surge blocks 3 feet apart from each other	Mabbett	1	0715-0730	0.25
Surge blocked MW306. 30 minutes per interval with a 0.25 gallon per minute purge. Completed well development with YSI meter and transducers.	Mabbett	1	0730-1200	4.50
Hand drilled SB201, SB202, and SB203 to one foot into native material. (6 feet) Fill material 4-5' samples collected at the 4-5 and 5-6' intervals for all three borings. Placed Temporary well points to five feet (screened throughout).	Mabbett	1	0930-1600	6.50
Surge blocked MW301. 10- minutes per interval with a 0.5 gallon per minute purge and developed with a YSI and transducer. MW301 had been surged blocked and developed two weeks ago.	Mabbett	1	1300-1600	3
Collected extra sampled from SB203 2-4 interval due to high Pid readings (max 122.4.)	Mabbett	1	1500-1515	0.25
Clean and secure site	Mabbett	1	1600-1615	0.25

JOB SAFETY			
	WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
	WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
	WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to ISM activities. Daily Health & Safety Meeting and Site Inspection Checklist filled out by Site Superintendent with signatures for on-Site staff. Reviewed ISM specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Mabbett	Sedimentation controls

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Eos Positioning Systems #21613951 GPS Unit	8
Mabbett	YSI meter, Whale pump, and surge block setup	8
Mabbett	Geoprobe hand drilling tooling	8
Mabbett	Mini-RAE PID	8

ADDITIONAL REMARKS

- ISM sampling complete for entire site.
- SB202 and SB203 had high PID readings and a visible sheen in the hand drilled boring at the 2'-4' interval.
- Fill material was visible in all three borings at 4-5' native material observed at 5' and below.
- Temporary well points placed in all three wells to five feet. They will be left overnight and sampled in the morning. VOCs will be taken first to avoid a turbid sample. PAHs and Metals will also be collected

Prepared by Justin Idzenga, signed on his behalf by:  October 11, 2023

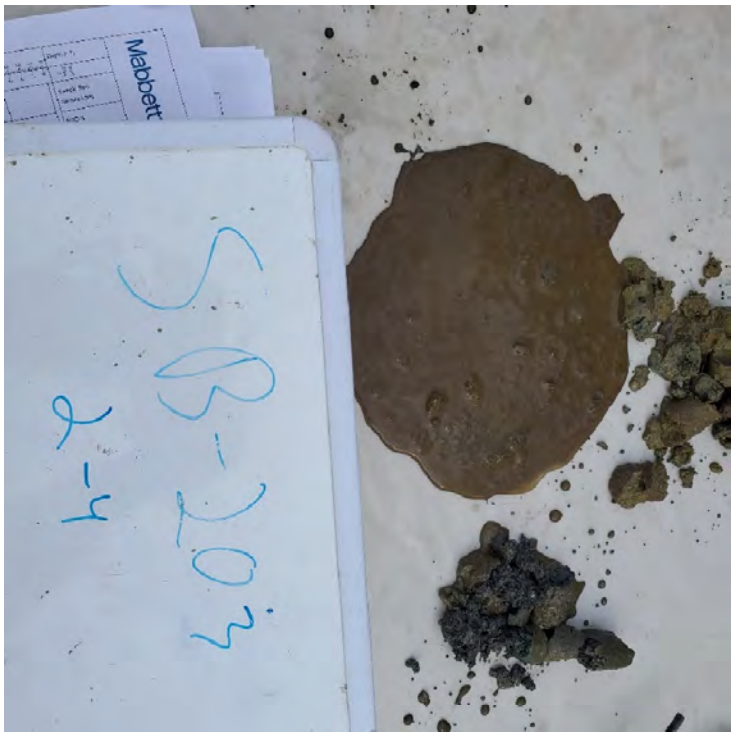
CONTRACTOR/SUPERINTENDENT — DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: October 12, 2023

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	32

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Justin Idzenga

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Foggy. No wind. 96% humidity	Partly sunny with 5 mph wind from the southwest. 62% humidity	51	61

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett on-Site.	Mabbett	1	0630	0.00
Tailgate health and safety meeting and PiD calibration.	Mabbett	1	0700-0715	0.25
Purged and sampled temporary wells located at SB201, SB202, and SB203. Sampled for VOCs, TAL metals (total and dissolved) and PAHs. Water quality parameters collected prior to and after purging and sampling. Sampling of SB204 (inside the drain catch basin) was also conducted using polyethylene tubing placed inside the drain line and purge/sampled	Mabbett	1	0715-0945	2.5
Collected waste characterization samples from IDW from investigation for PFAS analysis	Mabbett	1	0755-0810	0.25
Mike Nassisi (USACE) Onsite. Conducted additional health and safety briefing	Mabbett & USACE	1	0830	0.0
Surge blocked MW307. 20 minutes per 3' interval with a 0.5 gallon per minute purge. Completed well development with YSI meter and transducers.	Mabbett	1	1000-1400	4
Clean and secure site. Dropping sampled off to Katahdin Lab	Mabbett	1	1415-1430	0.25

JOB SAFETY			
	WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
	WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
	WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to ISM activities. Daily Health & Safety Meeting and Site Inspection Checklist filled out by Site Superintendent with signatures for on-Site staff. Reviewed ISM specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Mabbett	Sedimentation controls

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Eos Positioning Systems #21613951 GPS Unit	6
Mabbett	YSI meter, Whale pump, and surge block setup	7
Mabbett	Geoprobe hand drilling tooling	0
Mabbett	Mini-RAE PID	0

ADDITIONAL REMARKS

- All samples taken to the lab.
- PFAS waste characterizations samples were collected and sent to the lab.
- No personal will be onsite Friday, October 13, 2023.

Prepared by Justin Idzenga, signed on his behalf by:  October 12, 2023

CONTRACTOR/SUPERINTENDENT — DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: October 23, 2023

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	33

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Nicholas Podmaska

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Cloudy with 8 mph wind from the north. 83-89% humidity	Partly sunny with 3-8mph wind from the north and northwest. 64% humidity	48	55

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett on-Site.	Mabbett	1	0700	0.00
Tailgate health and safety meeting and work planning.	Mabbett	1	0700-0715	0.25
Gauge monitoring wells installed prior to Phase III RI fieldwork (MW-3, MW-5, MW-8, MW-20, MW-23). MW-11 not found and presumed destroyed	Mabbett	1	0715-0830	1.25
Calibrate PID and turbidity meter	Mabbett	1	0830-0845	0.25
Surge block MW-302 and then purge to develop	Mabbett	1	0845-1145	3
Transfer development water from portable tank to drum in IDW staging area	Mabbett	1	1145-1230	0.75
Surge block MW-305 and then purge to develop	Mabbett	1	1240-1400	1.33
Surge block MW-311 and then purge to develop	Mabbett	1	1445-1630	1.75
Transfer development water to drums in IDW staging area and cleanup site	Mabbett	1	1630-1710	0.67
Mabbett off-site	Mabbett	1	1710	0.00

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to ISM activities. Daily Health & Safety Meeting and Site Inspection Checklist filled out by Site Superintendent with signatures for on-Site staff. Reviewed Well development specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	YSI meter, Whale pump, and surge block setup	8
Mabbett	Mini-RAE PID	8

ADDITIONAL REMARKS

- MW-11 could not be located and is presumed destroyed. This well was located immediately adjacent to Hildreth St North.
- MW-305 purge was cut short due to high drawdown. Well left to recharge overnight before further development.
- All development water containerized and transferred to drums located in IDW staging area for characterization for off-site disposal.

Prepared by Nicolas Podmaska, signed on his behalf by:  October 23, 2023

CONTRACTOR/SUPERINTENDENT DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: October 24, 2023

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	34

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Nicholas Podmaska

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Light fog with no wind. 96-97% humidity	Partly sunny with 6-9 mph wind from the south. 51-59% humidity	33	57

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett on-Site.	Mabbett	1	0710	0.00
Tailgate health and safety meeting and work planning. Calibrate meters	Mabbett	1	0710-0740	0.50
Surge block MW-304 and then purge to develop	Mabbett	1	0745-1025	2.67
Surge MW-8	Mabbett	1	1030-1225	1.96
Purge MW-304 with transducer placed within well	Mabbett	1	1405-1445	0.67
Surge MW-5	Mabbett	1	1430-1605	1.57
Surge MW-23	Mabbett	1	1630-1750	1.33
Close up site	Mabbett	1	1750-1820	0.50
Mabbett off-site	Mabbett	1	1820	0.00

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to ISM activities. Daily Health & Safety Meeting and Site Inspection Checklist filled out by Site Superintendent with signatures for on-Site staff. Reviewed Well development specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	YSI meter, Whale pump, and surge block setup	10
Mabbett	Mini-RAE PID	10

ADDITIONAL REMARKS

- Transducers used in well purge to monitor water levels within well and measure drawdown.
- Purge at wells with high rates of drawdown was paused to allow water levels to recharge.
- All development water containerized and transferred to drums located in IDW staging area for characterization for off-site disposal.

Prepared by Nicolas Podmaska, signed on his behalf by: _____ October 24, 2023

CONTRACTOR/SUPERINTENDENT DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: October 25, 2023

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	35

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Nicholas Podmaska

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Scattered clouds with 5 mph wind from the south. 89-93% humidity	Overcast with light rain and 8-14 mph wind from the south. 68-75% humidity	50	65

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett on-Site.	Mabbett	1	0705	0.00
Tailgate health and safety meeting and work planning. Calibrate meters	Mabbett	1	0705-0750	0.75
Continue purge of MW-5 (started on 10/23/2023)	Mabbett	1	0800-0920	1.33
Tracy Dorgan (USACE) on-site	USACE	1	0925-0945	0.33
Purge MW-23 with transducer in well	Mabbett	1	0930-1030	1.00
Surge block and purge MW-20	Mabbett	1	1045-1420	3.58
Purge MW-305 with transducer in well	Mabbett	1	1340-1507	1.30
Surge block and purge MW-3	Mabbett	1	1440-1715	2.42
Purge MW-311	Mabbett	1	1535-1705	1.50
Close up site	Mabbett	1	1710-1840	1.50
Mabbett off-site	Mabbett	1	1840	0.00

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to ISM activities. Daily Health & Safety Meeting and Site Inspection Checklist filled out by Site Superintendent with signatures for on-Site staff. Reviewed Well development specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	YSI meter, Whale pump, and surge block setup	10
Mabbett	Mini-RAE PID	10

ADDITIONAL REMARKS

- Well development at DOW Site that includes 8 wells recently installed during the sonic boring program and 5 of 6 previously installed monitoring wells that could be located is complete.
- Field work concluded for week. All personnel off-site.
- All development water containerized and transferred to drums located in IDW staging area for characterization for off-site disposal.

Prepared by Nicolas Podmaska, signed on his behalf by: _____ October 25, 2023

CONTRACTOR/SUPERINTENDENT DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: February 6, 2024

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	36

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Nicholas V. Podmaska

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Partly sunny with 69% humidity and 9-13 mph winds from the north.	Mostly sunny with 59% humidity and 9-13 mph winds from the north.	24	35

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Snow clearing and prep for mat delivery	Mabbett & Bangor Landscape	1	0930 - 1100	1.5
Delivery truck on-site with timber mats	Mabbett, Buckeye & Bangor Landscape	1	1100	0.0
Set timber mats out at proposed monitoring well locations	Mabbett & Bangor Landscape	1	1100-1400	3
Timber mat delivery truck off-site	Buckeye	1	1230	0.0
Clean and secure site.	Mabbett & Bangor Landscape	1	1400 – 1430	0.5

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☐ YES	☒ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Buckeye	Flatbed Delivery Truck	1.5
Bangor Landscape	Skid steer	3.5
Bangor Landscape	Snow Plow	2

ADDITIONAL REMARKS

- Timber mats set up at proposed monitoring well location MW-308R due to swampy conditions at that location
- Excess mats stockpiled on southern extent of Tarmac. Will be removed from site at conclusion of well development program
- Additional sonic boring scheduled to commence on February 12th, 2024

Prepared by Nicholas V. Podmaska, signed on his behalf by: _____ February 12, 2024

CONTRACTOR/SUPERINTENDENT DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **February 12, 2024**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	37

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Justin C. Idzenga, PG

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Partly Sunny with 70% humidity and 3-5 mph winds from the west and southwest.	Mostly cloudy with 58% humidity and 14 mph winds from the south.	35	41

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup field supplies	Mabbett	1	1230-1245	0.25
Onsite. Drew from USACE and Cascade already on site	Mabbett	1	1245	0.0
Tailgate health and safety meeting prior to site prep	Mabbett & Cascade	1	1245-1300	0.25
Conducted walkthrough of the site. Oversaw Cascade clear snow from the tarmac. Confirmed locations of the four proposed monitoring wells. Marked existing temporary wells. Prepared decon pad.	Mabbett & Cascade	1	1300-1545	2.5
Clean and secure site	Mabbett & Cascade	1	1545-1600	0.25

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to site activities. Daily Health & Safety Meeting and Site Inspection Checklist #017 filled out by Site Superintendent with signatures for on-Site staff including Cascade. Reviewed sonic drilling specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Mini-RAE PID	0.0
Cascade	Track Mounted Sonic Rig	0.0
Cascade	Skid Steer	4.0

ADDITIONAL REMARKS

- Monitoring well MW-308R will be drilled by cascade first thing in the morning 2/13.
- Polyliner will be placed under new drums that will be generated tomorrow.
- A lab courier pickup is scheduled for Wednesday afternoon. All samples collected Tuesday will be submitted within the holding time.

Prepared by Justin C. Idzenga PG, signed on his behalf by:  February 12, 2024

CONTRACTOR/SUPERINTENDENT — DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **February 13, 2024**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	38

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Justin C. Idzenga, PG

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Mostly Cloudy with 60% humidity and 12 mph winds from the south.	Mostly cloudy with 45% humidity and 19 mph winds from the southwest.	34	19

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup ice and field supplies	Mabbett	1	0700-0715	0.25
Onsite. Drew (USACE) and Cascade already onsite.	Mabbett & Cascade	1	0715	0
Tailgate health and safety meeting prior to Sonic Drilling. Emphasis made on the cold weather, ice, and trip hazards.	Mabbett & Cascade	1	0715-0730	0.25
Cascade drilled MW-308R to 35'. Monitoring well set to 35' and screened 35'-25'. Top of bedrock is 30'. Sample SB-308R collected at 28' at 13:40.	Mabbett & Cascade	1	0730-0430	9.0
Mabbett conducted gauging event and completed an inspection of all onsite monitoring wells.	Mabbett		1215-1245	0.5
Mabbett enhanced the decontamination pad to include a 1' splash barrier on all sides. In addition, rock salt was laid down to melt the ice formed around the conex box, decon pad, porta john, and drum storage.	Mabbett	1	1530-1630	1
Clean and secure site	Mabbett & Cascade	1	1630-1645	0.25

JOB SAFETY			
	WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES ☐ NO	
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES ☒ NO	
	WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES ☒ NO	
	WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES ☒ NO	

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to site activities. Daily Health & Safety Meeting and Site Inspection Checklist #019 filled out by Site Superintendent with signatures for on-Site staff including Cascade. Reviewed sonic drilling specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Mini-RAE PID	9
Cascade	Track Mounted Sonic Rig	9
Cascade	Skid Steer	9

ADDITIONAL REMARKS

- Monitoring well MW-310 will be drilled by cascade first thing in the morning 2/14.
- MW-305 had a blockage at approximately2.9' from top of PVC. The groundwater may be frozen at around 0.0' below ground surface. MW-305 DTW is typically higher than the surrounding wells due to the ground elevation being slightly lower near MW-305.
- Monitoring Well MW-23, located near MW-308R appears to have been affected by frost heave.
- The hydrant near the site on Hildreth St. has been set up by Bangor Water for Sonic Drilling use. Bangor Water did not provide services to protect the valve from freezing overnight. Cascade purchased straw and a tarp to cover the valve overnight to prevent freezing. This caused a delay in morning site activities which included drilling MW-308R.
- A lab courier pickup is scheduled for Wednesday afternoon. Samples collected Today will be submitted tomorrow within the holding time.

Prepared by Justin C. Idzenga PG, signed on his behalf by: _____ February 13, 2024

CONTRACTOR/SUPERINTENDENT DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **February 14, 2024**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	39

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Justin C. Idzenga, PG

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Mostly Cloudy with 64% humidity and 16 mph winds from the southeast.	Mostly cloudy with 42% humidity and 14 mph winds from the southeast.	21	17

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup ice and field supplies	Mabbett	1	0700-0715	0.25
Onsite. Drew (USACE) and Cascade already onsite.	Mabbett & Cascade	1	0715	0
Tailgate health and safety meeting prior to Sonic Drilling. Emphasis made on the cold weather, ice, and trip hazards.	Mabbett & Cascade	1	0715-0730	0.25
Cascade drilled MW-310 to 43'. Monitoring well set to 32' and screened 32'-42'. Top of bedrock is 37'. Sample SB-310 collected at 35' at 14:11.	Mabbett & Cascade	1	0730-0430	9.0
Clean and secure site	Mabbett & Cascade	1	1630-1645	0.25

JOB SAFETY			
	WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES ☐ NO	
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES ☒ NO	
	WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES ☒ NO	
	WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES ☒ NO	

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to site activities. Daily Health & Safety Meeting and Site Inspection Checklist #020 filled out by Site Superintendent with signatures for on-Site staff including Cascade. Reviewed sonic drilling specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Mini-RAE PID	9
Cascade	Track Mounted Sonic Rig	9
Cascade	Skid Steer	9

ADDITIONAL REMARKS

- Monitoring well MW-309 will be drilled by cascade first thing in the morning 2/15.
- Tracy was onsite at 13:00 and was given a safety briefing. Drew Clemens was offsite at 14:00. Tracy will be the USACE representative for the rest of the week.
- A lab courier picked up Tuesday's sample from MW308 at 12:00 today. The courier is scheduled for Thursday afternoon. Samples collected today from MW-310 will be submitted tomorrow within the holding time.

Prepared by Justin C. Idzenga PG, signed on his behalf by:  February 14, 2024

CONTRACTOR/SUPERINTENDENT — DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **February 15, 2024**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	40

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Justin C. Idzenga, PG

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Mostly Sunny with 57% humidity and 7 mph winds from the southeast.	Mostly cloudy with 66% humidity and 12 mph winds from the south-southwest.	36	20

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup ice and field supplies	Mabbett	1	0700-0715	0.25
Onsite. Cascade already onsite.	Mabbett & Cascade	1	0715	0
Tailgate health and safety meeting prior to Sonic Drilling. Emphasis made on the cold weather, ice, and trip hazards.	Mabbett & Cascade	1	0715-0730	0.25
Cascade drilled MW-309 to 50'. Bedrock has not been confirmed. Cascade will continue drilling on Friday until bedrock is confirmed.	Mabbett & Cascade	1	0730-1700	9.5
Clean and secure site	Mabbett & Cascade	1	1700-1715	0.25

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES ☐ NO	
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES ☒ NO	
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES ☒ NO	
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES ☒ NO	

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to site activities. Daily Health & Safety Meeting and Site Inspection Checklist #019 filled out by Site Superintendent with signatures for on-Site staff including Cascade. Reviewed sonic drilling specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Mini-RAE PID	9.5
Cascade	Track Mounted Sonic Rig	9.5
Cascade	Skid Steer	9.5

ADDITIONAL REMARKS

- Monitoring well MW-309 will continued by cascade first thing in the morning 2/16.
- Tracy was onsite at 09:05 and was given a safety briefing.
- Josh Millard was onsite at 12:00 and was given a safety briefing.
- A lab courier picked up Wednesday's sample from MW310 at 11:00 today. No courier service is scheduled for tomorrow. Samples will be frozen until Monday.
- A decision will be made tomorrow on whether work will continue through the weekend or pause after Friday and resume Tuesday (2/20)

Prepared by Justin C. Idzenga PG, signed on his behalf by: _____ February 15, 2024

CONTRACTOR/SUPERINTENDENT DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **February 16, 2024**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	41

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Justin C. Idzenga, PG

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Cloudy with 65% humidity and 11 mph winds from the south. Snow about 1.5" accumulation.	Mostly cloudy with 53% humidity and 8 mph winds from the east.	30	16

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup ice and field supplies	Mabbett	1	0700-0715	0.25
Onsite. Cascade already onsite.	Mabbett & Cascade	1	0715	0
Tailgate health and safety meeting prior to Sonic Drilling. Emphasis made on the cold weather, recent snowfall, ice, and trip hazards.	Mabbett & Cascade	1	0715-0730	0.25
Cascade drilled MW-309 to 55'. Bedrock at 49.5' Well set at 54' and screened at 44-54'. Sample collected at 48'.	Mabbett & Cascade	1	0730-1230	5
Mabbett labeled all drums, placed drums on plastic sheeting, and covered the drums with plastic sheeting and a tarp. Mabbett used bungie cords and cement bags to prevent the tarp from falling off. All finished stickup wells were secured using a lock and key.	Mabbett	1	1200-1300	1
Clean and secure site	Mabbett & Cascade	1	1300-1315	0.25

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to site activities. Daily Health & Safety Meeting and Site Inspection Checklist #021 filled out by Site Superintendent with signatures for on-Site staff including Cascade. Reviewed sonic drilling specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Mini-RAE PID	5
Cascade	Track Mounted Sonic Rig	5
Cascade	Skid Steer	5

ADDITIONAL REMARKS

- Monitoring well MW-312 will be drilled by cascade first thing in the morning Tuesday 2/20.
- Samples from Thursday will be dropped off at Katahdin Laboratories this afternoon before 5pm.

Prepared by Justin C. Idzenga PG, signed on his behalf by:  February 16, 2024

CONTRACTOR/SUPERINTENDENT DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **February 20, 2024**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	42

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Nicholas V. Podmaska, GIT

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Clear with 45% humidity and 9-12 mph winds from the west.	Clear with 38% humidity and 5-7 mph winds from the northwest.	27	21

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup ice and field supplies	Mabbett	1	0700-0715	0.25
Onsite. Cascade already onsite.	Mabbett & Cascade	1	0715	0
Tailgate health and safety meeting prior to Sonic Drilling. Emphasis made on the cold weather, recent snowfall, ice, and trip hazards.	Mabbett & Cascade	1	0715-0730	0.25
Cascade drilled MW-312R to 40'. Bedrock at 35'. Well set at 40' and screened at 40-30'. Sample collected at 37'.	Mabbett & Cascade	1	0730-1500	7
Develop MW-309	Mabbett	1	0730-1600	9
Mabbett labeled all drums, placed drums on plastic sheeting, and covered the drums with plastic sheeting and a tarp. Mabbett used bungie cords and cement bags to prevent the tarp from falling off. All finished stickup wells were secured using a lock and key.	Mabbett	1	1600-1700	1
Clean and secure site	Mabbett & Cascade	1	1700-1715	0.25

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to site activities. Daily Health & Safety Meeting and Site Inspection Checklist filled out by Site Superintendent with signatures for on-Site staff including Cascade. Reviewed sonic drilling specific safety requirements and hazards.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Sunbelt Rentals	Polaris
Home Depot	Generator

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Mini-RAE PID	7
Mabbett	Polaris	10
Mabbett	Generator	5
Cascade	Track Mounted Sonic Rig	7
Cascade	Skid Steer	7

ADDITIONAL REMARKS

- Samples will be picked up, on-Site, by Katahdin Laboratories on 2/21/24
- Monitoring wells MW-308R, MW-309, MW-310 and MW-312R are complete. Cascade will demobilize on 02/21/2024

Prepared by Nicholas V. Podmaska, signed on his behalf by:  February 21, 2024

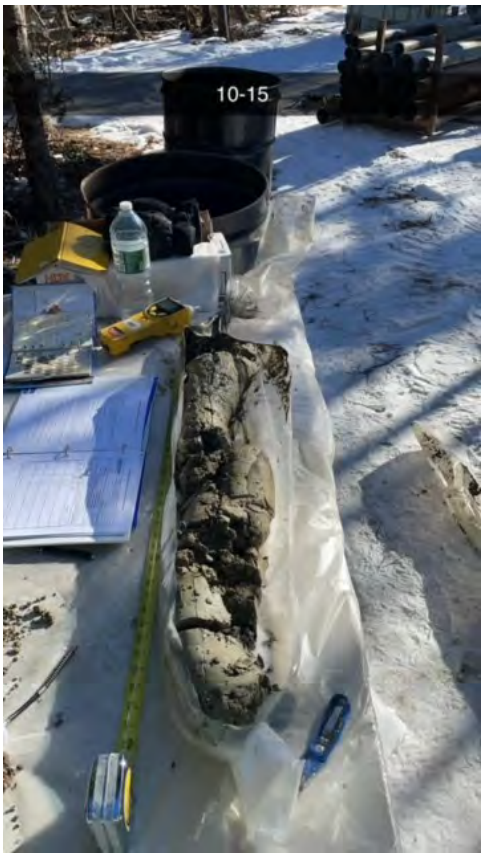
CONTRACTOR/SUPERINTENDENT DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **February 21, 2024**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	43

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Nicholas V. Podmaska, GIT

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Clear with 67% humidity and 1-3 mph winds from the south.	Clear with 52% humidity and 5-7 mph winds from the south.	32	6

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup ice and field supplies	Mabbett	1	0700-0715	0.25
Onsite. Cascade already onsite.	Mabbett & Cascade	1	0715	0
Tailgate health and safety meeting.	Mabbett & Cascade	1	0715-0730	0.25
Cascade demobilization	Mabbett & Cascade	1	0730-0930	2
Lab Courier on-Site for sample Pickup	Mabbett & Katahdin	1	1100-1115	0.25
Develop MW-310. Partially develop MW-312R and MW-308. MW-312R/308 had less yield and was unable to meet specific capacity criteria and will have to be surged and purged again to meet criteria or 10x well volume.	Mabbett	1	0730-1600	9
Mabbett labeled all drums, placed drums on plastic sheeting, and covered the drums with plastic sheeting and a tarp. Mabbett used bungie cords and cement bags to prevent the tarp from falling off. All finished stickup wells were secured using a lock and key.	Mabbett	1	1600-1700	1
Clean and secure site	Mabbett & Cascade	1	1700-1715	0.25

JOB SAFETY

	YES	NO
WAS A JOB SAFETY MEETING HELD THIS DATE?	☒	☐
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐	☒
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐	☒
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐	☒

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to site activities. Daily Health & Safety Meeting and Site Inspection Checklist filled out by Site Superintendent with signatures for on-Site staff including Cascade. Reviewed possible hazards that could be encountered during demobilization.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Polaris	10
Mabbett	Honda 120V Generator	10

ADDITIONAL REMARKS

- Timber construction mats are scheduled to be removed from site tomorrow 2/22.
- MW-307 previously surged on 10/12/23 will be purged with collection of transducer data

Prepared by Nicholas V. Podmaska, signed on his behalf by: _____ February 21, 2024

CONTRACTOR/SUPERINTENDENT DATE





Mabbett
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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **February 22, 2024**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	44

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Nicholas V. Podmaska, GIT

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Overcast with 67% humidity and 2-3 mph winds from the southeast.	Mostly cloudy with 52% humidity and 7-10 mph winds from the southwest.	33	26

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup ice and field supplies	Mabbett	1	0630-0650	0.25
Tailgate health and safety meeting.	Mabbett	1	0700-0715	0.25
Continue well development at MW-312R and MW-308	Mabbett	1	0730-1630	10
Remove construction mats from woods at MW-308	Mabbett & Bangor Landscape	1	0830-1200	3.5
Collect soil IDW sample	Mabbett	1	1100-1115	0.25
Mabbett labeled all drums, placed drums on plastic sheeting, and covered the drums with plastic sheeting and a tarp. Mabbett used bungie cords and cement bags to prevent the tarp from falling off. All finished stickup wells were secured using a lock and key.	Mabbett	1	1630-1730	1
Clean and secure site	Mabbett	1	1700-1715	0.25

JOB SAFETY			
	WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES ☐ NO	
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES ☒ NO	
	WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES ☒ NO	
	WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES ☒ NO	

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to site activities. Daily Health & Safety Meeting and Site Inspection Checklist filled out by Site Superintendent with signatures for on-Site staff.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Bangor Landscape	Caterpillar 289D3 Compact Track Loader
Mabbett	Two (2) 55-gal poly drums

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Polaris	10
Mabbett	Honda 120V Generator	10
Bangor Landscape	Caterpillar 289D3 Compact Track Loader	3

ADDITIONAL REMARKS

- Timber construction mats pick-up was rescheduled for tomorrow 2/22.
- MW-312R and MW-308 need further developing tomorrow 2/22 because rapid draw down did not allow Mabbett to achieve any of the elected criteria to prove productive well development.

Prepared by Nicholas V. Podmaska, signed on his behalf by:  February 22, 2024

CONTRACTOR/SUPERINTENDENT DATE







Mabbett
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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **February 23, 2024**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	45

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Nicholas V. Podmaska, GIT

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Snow with 96% humidity and 8 mph winds from the south.	Mostly cloudy with 43% humidity and 7-17 mph winds from the northwest.	39	26

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup ice and field supplies	Mabbett	1	0630-0650	0.25
Tailgate health and safety meeting.	Mabbett	1	0700-0715	0.25
Continue well development at MW-312R and MW-308.	Mabbett	1	0730-1630	10
Remove construction mats from woods at MW-308.	Mabbett & Bangor Landscape	1	0650-0950	3
Collect aqueous IDW sample.	Mabbett	1	1000-1015	0.25
5 total aqueous drums generated. Mabbett labeled all aqueous and soil drums, placed drums on plastic sheeting, and covered the drums with plastic sheeting and a tarp. Mabbett used bungie cords and cement bags to prevent the tarp from falling off. All finished stickup wells were secured using a lock and key.	Mabbett	1	1000-1100	1
Clean and secure site.	Mabbett	1	1100-1115	0.25

JOB SAFETY			
	WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES ☐ NO	
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES ☒ NO	
	WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES ☒ NO	
	WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES ☒ NO	

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to site activities. Daily Health & Safety Meeting and Site Inspection Checklist filled out by Site Superintendent with signatures for on-Site staff.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Bangor Landscape	Caterpillar 289D3 Compact Track Loader
Mabbett	Two (2) 55-gal poly drums

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Polaris	4
Mabbett	Honda 120V Generator	4
Bangor Landscape	Caterpillar 289D3 Compact Track Loader	3

ADDITIONAL REMARKS

- Timber construction mats were picked-up and taken offsite.
- MW-312R and MW-308R were purged. Both wells achieved 10x well volume. MW-308R continues to have a slow recharge. After 24-hrs, MW-308R Depth to water was 15' below ground surface. It took roughly 1 hour for MW-308R to purge down to the top of the whale pump set at 31'. MW-308R did not achieve certain elected criteria to prove productive well development.
- The site has been secured and all wells have been locked.
- IDW samples will be dropped off at Katahdin Laboratories this afternoon.

Prepared by Nicholas V. Podmaska, signed on his behalf by: _____ February 23, 2024

CONTRACTOR/SUPERINTENDENT DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: April 22, 2024

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	46

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Cassidy Way, QEP, CHMM

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Cloudy with 48% humidity and 9 mph winds from west-northwest.	Sunny with 19-25% humidity 12 mph winds from the northwest.	38	49

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup ice and field supplies	Mabbett	1	0730-0800	0.50
Mabbett and Tracy Dorgan (USACE) on-site	Mabbett & USACE	1	0800	0
Tailgate H&S meeting, calibrate water quality parameter meter, inventory supplies	Mabbett	1	0800-0825	0.50
Inspect IDW staging area with soil and water drums from earlier phases of DOW investigation	Mabbett	1	0830-0900	0.50
Sample DOW monitoring wells: MW-301, MW-302, MW-303, MW-3, MW-311	Mabbett	1	0825-1630	8
David Betterman (Mabbett) on-site	Mabbett	1	1010	0
Collect gauging data from all monitoring wells (5 existing, 12 newly installed)	Mabbett	1	1600-1645	0.75
Clean and secure site.	Mabbett	1	1630-1700	0.50

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ YES ☐ NO	
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES ☒ NO	
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES ☒ NO	
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES ☒ NO	

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to site activities. Daily Health & Safety Meeting and Site Inspection Checklist filled out by Site Superintendent with signatures for on-Site staff.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Mabbett	Two (2) 55-gal poly drums

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Polaris all-terrain utility vehicle (UTV)	8
Mabbett	Honda 120V Generator	8
Mabbett	Low-Flow Pump	8
Mabbett	Peristaltic Pump	8
Mabbett	Two (2) YSI Low-Flow Water Quality Parameter Meters	8
Mabbett	Two (2) Water Level Indicators	8.75

ADDITIONAL REMARKS

- Two teams conducted monitoring well sampling using UTV and utility van.
- Mabbett will have an oil-water interface probe on-site on Wednesday April 24th to gauge all site monitoring wells to identify any wells with free product in them.
- The following groundwater samples were collected:
  - DOW-MW-303-042224 @ 0930
  - DOW-MW-302-042224 @1230
  - DOW-MW-311-042224 @ 1235
  - DOW-MW-301-042224 @ 1500
  - DOW-MW-3-042224 @ 1605
- Monitoring well MW-11 is presumed destroyed due to proximity to Hildreth St N.
- Mabbett conducted an inspection of IDW staging area. Drum labels are faded, but all drums were found to be intact without comprised integrity. Soil and aqueous wastes have been segregated per the waste profiles that have been prepared for this material.

Prepared by Cassidy E. Way, signed on her behalf by: 

CONTRACTOR/SUPERINTENDENT — April 23, 2024 DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: April 23, 2024

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	47

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Cassidy Way, QEP, CHMM

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Passing clouds with 47-54% humidity and 12 mph winds from south.	Passing clouds with 37-44% humidity 15-24 mph winds from the south.	42	55

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup ice and field supplies	Mabbett	1	0715-0730	0.25
Mabbett on-site	Mabbett	1	0735	0
Tailgate H&S meeting, calibrate water quality parameter meter, inventory supplies and prepare for fieldwork	Mabbett	1	0745-0900	1.25
Sample DOW monitoring wells: MW-308R, MW-309, MW-310, MW-312R, MW-23	Mabbett	1	0900-1645	7.75
UTV stuck in mud on snowmobile trail. Mabbett discusses with USACE about proper way to extract vehicle from mud. Develop plan to use skid steer with tow strap to tow UTV out of mud. Will require decontamination pad for equipment	Mabbett	1	0930	0
Construct decon pad for skid steer to be used tomorrow (04-24-2024)	Mabbett	1	1600-1630	0
Clean and secure site.	Mabbett	1	1630-1700	0.50

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ ~~YES~~ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ ~~NO~~ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ ~~NO~~ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ ~~NO~~ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to site activities. Daily Health & Safety Meeting and Site Inspection Checklist filled out by Site Superintendent with signatures for on-Site staff.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Mabbett	Two (2) 55-gal poly drums

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Polaris all-terrain utility vehicle (UTV)	2
Mabbett	Honda 120V Generator	8
Mabbett	Low-Flow Pump	8
Mabbett	Peristaltic Pump	8
Mabbett	Two (2) YSI Low-Flow Water Quality Parameter Meters	8
Mabbett	Two (2) Water Level Indicators	8

ADDITIONAL REMARKS

- Two teams conducted monitoring well sampling using UTV and utility van.
- UTV used for hauling sampling equipment and samples in woods got stuck in the mud on old snowmobile trail in morning. Mabbett and USACE decided that using a skidsteer with a tow strap supplied by a landscaping contractor who has worked on the site would be the safest plan to get the vehicle out. Bangor Landscape, a local contractor that is already familiar with the site, will be on-site tomorrow (04-24-2024) at 0800.
- Mabbett has already constructed a decontamination pad to decontaminate the UTV and the skidsteer in accordance with the UFP-QAPP instructions for heavy equipment decontamination. Decontamination fluids will be containerized and transferred to a 55-gallon drum.
- UTV will no longer be used in woods on snow-mobile trail.
- The following groundwater samples were collected:
  - DOW-MW-308R-042324 @ 1600
  - DOW-MW-309-042324 @1145
  - DOW-MW-310-0422]324 @ 1435
  - DOW-MW-312R-042324 @ 1209
  - DOW-MW-23-042324 @ 1640

Prepared by Cassidy E. Way, signed on her behalf by: _____ April 24, 2024

CONTRACTOR/SUPERINTENDENT DATE

Mabbett
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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: April 24, 2024

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	48

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Cassidy Way, QEP, CHMM

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Broken clouds with 82-86% humidity and 9-12 mph winds from south.	Clouds and light rain with 71-80% humidity 10 mph winds from the south.	39	50

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup ice and field supplies	Mabbett	1	0700-0715	0.25
Mabbett on-site	Mabbett	1	0715	0.00
Tailgate H&S meeting, calibrate water quality parameter meter, prepare decon pad for UTV and skidsteer and review decon procedures	Mabbett	1	0715-0915	2.00
Bangor Lawn and Landscape on-site	Bangor Landscape	1	0915	0.00
Discuss towing procedures and mobilize to UTV and tow UTV out of woods	Mabbett and Bangor Landscape	1	0930-1000	0.50
Bangor Lawn and Landscape off-site	Bangor Landscape	1	1115	1.17
Collect samples from monitoring wells: MW-20, MW-304, MW-305, MW-306, MW-307	Mabbett	1	1000-1715	7.25
Clean-up and secure site	Mabbett	1	1715-1745	0.50
Mabbett off-site	Mabbett	1	1745	0.00

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ ~~YES~~	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ ~~NO~~
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ ~~NO~~
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ ~~NO~~

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to site activities. Daily Health & Safety Meeting and Site Inspection Checklist filled out by Site Superintendent with signatures for on-Site staff.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Mabbett	Two (2) 55-gal poly drums
Bangor Landscape	Caterpillar 259D Skidsteer

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Polaris all-terrain utility vehicle (UTV)	2
Mabbett	Honda 120V Generator	7.25
Mabbett	Low-Flow Pump	7.25
Mabbett	Peristaltic Pump	7.25
Mabbett	Two (2) YSI Low-Flow Water Quality Parameter Meters	7.25
Mabbett	Two (2) Water Level Indicators	7.25
Bangor Landscape	Caterpillar 259D Skidsteer	1.25

ADDITIONAL REMARKS

- Contractor used skidsteer to extract UTV out of mud. Skidsteer and UTV deconned in custom built decontamination pad in accordance with appropriate SOP out of UFP-QAPP for project.
- UTV called off-rent today and will be picked up.
- Laboratory courier picked up samples collected on 04/22/2024 and 04/23/2024
- The following groundwater samples were collected:
  - DOW-MW-20-042424 @ 1310
  - DOW-MW-304-042424 @1615
  - DOW-MW-305-0424]324 @ 1114
  - DOW-MW-306-042424 @ 1525
  - DOW-MW-307-042424 @ 1325

Prepared by Cassidy E. Way, signed on her behalf by:



CONTRACTOR/SUPERINTENDENT

April 25, 2024
DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: April 25, 2024

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	49

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Cassidy Way, QEP, CHMM

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Passing clouds with 49-51% humidity and 7-8 mph winds from north.	Sunny with 30-33% humidity 14-15 mph winds from the northwest.	27	49

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Pickup ice and field supplies	Mabbett	1	0715-0730	0.25
Mabbett on-site	Mabbett	1	0730	0.00
Tailgate H&S meeting, calibrate water quality parameter meter, prepare decon pad for UTV and skidsteer and review decon procedures	Mabbett	1	0730-0800	0.50
Collect samples from monitoring wells: MW-5, MW-8	Mabbett	1	0800-1000	2.00
Gauge all site wells with oil/water interface probe and screen with photo-ionization detector (PID)	Mabbett	1	0800-1000	2.00
Clean-up and secure site. Secure IDW staging area and cover with tarp	Mabbett	1	1000-1115	1.25
Mabbett off-site	Mabbett	1	1120	0.00

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ ~~YES~~	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ ~~NO~~
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ ~~NO~~
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ ~~NO~~

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

Tailgate H&S meeting held prior to site activities. Daily Health & Safety Meeting and Site Inspection Checklist filled out by Site Superintendent with signatures for on-Site staff.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received
Mabbett	Two (2) 55-gal poly drums

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Honda 120V Generator	2
Mabbett	Low-Flow Pump	2
Mabbett	Peristaltic Pump	2
Mabbett	Two (2) YSI Low-Flow Water Quality Parameter Meters	2
Mabbett	Two (2) Water Level Indicators	2

ADDITIONAL REMARKS

- Mabbett used oil/water interface probe to gauge all site wells. No DNAPL detected in any wells
- Mabbett used PID to screen all wells. Only hit was 0.2 parts per million (ppm) in MW-308R
- IDW drums secured under tarp. IDW waste profiles have been finalized and non-hazardous waste pickup is currently being scheduled.
- The following groundwater samples were collected:
  - DOW-MW-5-042524 @ 0915
  - DOW-MW-8-042524 @0955

Prepared by Cassidy E. Way, signed on her behalf by:



CONTRACTOR/SUPERINTENDENT

April 26, 2024

DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: May 15, 2024

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	50

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Eli Boesch-Dining

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Scattered clouds with 84% humidity and no wind.	Broken clouds with 50-55% humidity 14-18 mph winds from south.	56	76

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Eli Boesch-Dining and SES (IDW Disposal) on-site	Mabbett & SES	1	0730	0.00
Observe several water drums are building in the bottom, likely due to winter freezes	Mabbett & SES	1	0730-0750	0.33
Eli off-site to get sump pump and rental generator to transfer contents of drum	Mabbett	1	0750-0850	1.00
Consolidate soil IDW into fewer drums. Rinse empty drums per hauler instructions and transfer water from bulging drums to newly cleaned former soil drums. 6 bulging water drums placed in overpacks	Mabbett & SES	1	0850- 1350	5.00
Plisga and Day (Land Surveyor) on-site	Mabbett	1	1425	0.00
Eli gives tour of site monitoring wells to be surveyed as well as surface water sampling points	Mabbett	1	1425-1525	1.00
Rinse out bulging drums and collect contents in single drum with mixed soil/water waste for later pickup	Mabbett	1	1525-1755	2.50
Mabbett off-site	Mabbett	1	1800	0.00

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ ~~YES~~	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ ~~NO~~
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ ~~NO~~
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ ~~NO~~

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	Honda 120V Generator	5
Mabbett	Sump Pump	5
SES	Transport truck with tailgate	6.5

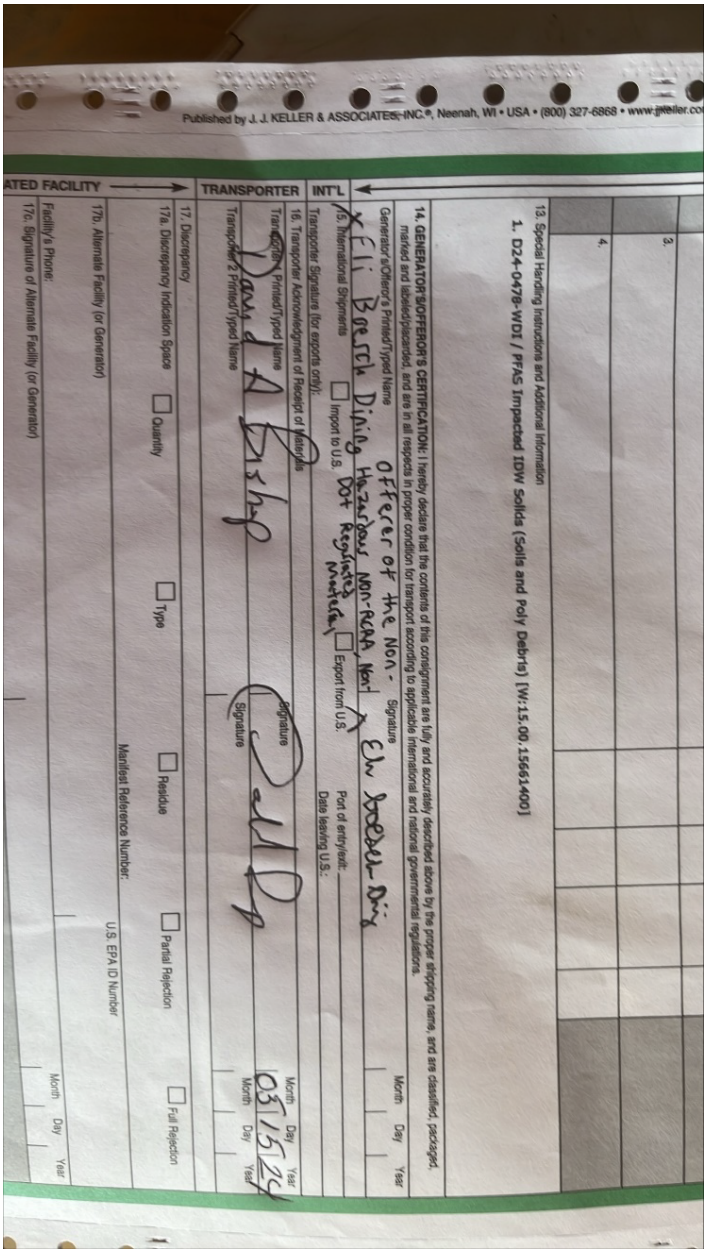
ADDITIONAL REMARKS

- Several drums that were used to for aqueous IDW were observed to have bulging bottoms when loading drums. Many soil drums had minimal quantities of soil IDW contained. Contents of soil IDW drums were consolidated into 19 drums. Empty drums formerly used to store soil IDW were rinsed out per waste hauler instructions and rinsate water collected in drum of mixed soil/water.
- Sump pump used to transfer contents of aqueous IDW drums into newly cleaned out former soil drums.
- 6 aqueous IDW drums placed in overpacks for transport to disposal facility.
- Empty bulging drums rinsed out. Rinsate collected in drum of mixed soil/water for disposal.
- A total of 19 drums of soil IDW and 19 drums of aqueous IDW and 6 overpacks containing aqueous IDW were loaded and transported off-site.
- Mabbett will return on 05/16/2024 to organize trailer and secure site.
- One drum contained waterlogged soil and will have to be characterized as sludge and disposed of at a future date with purge waters from monitoring well sampling.

Prepared by Eli Boesch-Dining, signed on his behalf by: _____ May 16, 2024

CONTRACTOR/SUPERINTENDENT DATE





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ATED FACILITY → TRANSPORTER INT'L

13. Special Handling Instructions and Additional Information
1. D24-0478-WDI / PFAS Impacted IDW Solids (Soils and Poly Debris) [W:15.00:15661400]

14. GENERATOR/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Xfli Boesch Dining Hazardous Non-RCRA Waste Officer of the Non- — Signature — Month Day Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Dana A Bishop — Signature — Month 05 Day 15 Year 24
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number: U.S. EPA ID Number

17b. Alternate Facility (or Generator) — Month Day Year

Facility's Phone:
17c. Signature of Alternate Facility (or Generator)

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	(800) 839-3975	0269564

5. Generator's Name and Mailing Address
United States Army Corps of Engineers
New England District
696 Virginia Road
Concord, MA 01742
Generator's Phone: (978) 318-8147

Generator's Site Address (if different than mailing address)
(USACE)-New England District
Former Dow Air Force Base 250 Hildreth Street
N. Bangor, ME 04401

6. Transporter 1 Company Name: EQ NORTHEAST, INC. — U.S. EPA ID Number: MAD 084 814 136

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
MICHIGAN DISPOSAL WASTE TREATMENT
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 000 724 831

GENERATOR

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non Hazardous Liquid Waste, Not Dot Not RCRA Regulated	025	DM	1,375	G
2. 95				
3.				
4.				

13. Special Handling Instructions and Additional Information
1. D24-0461-MDI / PFAS Impacted IDW Liquids (Purge and Decon Water) [W:15.00.15661500]
95 gal over paks (6) for 6-55gal Drums
SES #24-0166
Mabbett
R2022057-SES

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: X Eli Boesch Dining — Signature: X Eli Boesch Dining — Month 05 Day 15 Year 24

INT'L

15. International Shipments: ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit: — Date leaving U.S.:
Transporter Signature (for exports only):

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: David A Bishop — Signature: David Bishop — Month 05 Day 15 Year 24
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY TO GENERATOR

169-BLC-O 5 11977 (Rev. 9/09)

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: May 16, 2024

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	51

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Eli Boesch Dining

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Mostly cloudy with 70% humidity and 2 mph wind.	Mostly cloudy with 62% humidity, scattered showers, and 8-14 mph winds from southeast.	53	75

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Eli Boesch Dining off-site to return rental generator	Mabbett	1	0730-0815	0.75
Eli on-site	Mabbett	1	0815	0.00
Eli transporting 10 misshapen cleaned, empty drums to scrap recycler, Corey Recycling	Mabbett	1	0815-1015	2.00
Eli off-site to check out of hotel	Mabbett	1	1015-1045	0.50
Eli on-site	Mabbett	1	1045	0.00
Organize materials outside trailer, collect trash for disposal, empty non-essential materials from trailer to transport back to Stoneham, and secure site	Mabbett	1	1045-1115	0.50
Mabbett off-site	Mabbett	1	1115	0.00

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ ~~YES~~	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ ~~NO~~
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ ~~NO~~
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ ~~NO~~

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used

ADDITIONAL REMARKS

- 10 drums observed to have bulging bottoms on 05/15/24 were cleaned and rinsed out and left to dry. Rinsate containerized in drum of mixed soil/water left on-site.
- Clean and empty drums transported to Corey Recycling on 05/16/2024.

Prepared by Eli Boesch-Dining, signed on his behalf by: _____ May 17, 2024

CONTRACTOR/SUPERINTENDENT DATE


FOR EMPTY ONLY
FOR EMPTY ONLY


XHCU 5379377



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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: June 25, 2024

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	52

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Cassidy E. Way

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Clear skies.	Passing clouds	64	72

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett on-site	Mabbett	1	0730	0.00
Tailgate H&S meeting and set-up sampling for day. Start gauging all site wells using an oil-water interface probe to get ground elevation data from entire site and to identify any LNAPL present in monitoring wells	Mabbett	1	0730-0830	1.00
Mabbett collects groundwater samples from: MW-05, MW-08 MW-23, MW-304, MW-308R, , MW-309, MW-310, and MW-312R.	Mabbett	1	0830-1630	8.00
Gather equipment, clean-up site for day and container low-flow purge water into IDW drum.	Mabbett	1	1630-1645	0.25
Mabbett off-site	Mabbett	1	1650	0.00

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ ~~YES~~ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ ~~NO~~ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ ~~NO~~ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ ~~NO~~ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

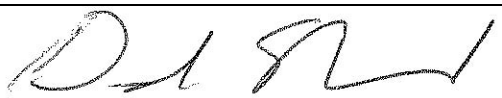
Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	YSI Oil-Water Interface Probe	9
Mabbett	2 x YSI Pro-Quatro Multi-Parameter water quality meter	8
Mabbett	Mini-Rae Photo-Ionization Detector	8

ADDITIONAL REMARKS

- Well gauging conducted on all site monitoring wells using an oil-water interface probe. No LNAPL detected in any wells.
- 8 monitoring wells sampled today. MW-05, MW-08 MW-23, MW-304, MW-308R, MW-309, MW-310, and MW-312R. Courier pickup scheduled for Tuesday (06/26/2024)
- Hexavalent chromium (SW7199) samples achieved PH values in buffered sample containers of 8.5 + but not within the 9-9.5 range specified by method. Called lab (ALS) and confirmed that bottles received with PH values over 8 would have a note in the laboratory case narrative but are presumed to not contain tri-valent chromium in sufficient quantities to impact analysis. Buffering solution must be produced, tested and verified by contact laboratory and cannot be supplied on short notice.

Prepared by Cassidy E. Way, signed on her behalf:  June 26, 2024

CONTRACTOR/SUPERINTENDENT DATE





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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: June 26, 2024

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	53

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Cassidy E. Way

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Scattered clouds with 5-8 mph winds from south. 68% humidity	Broken clouds and light rain with 7-10 mph winds from south. 76-84% humidity	69	83

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett on-site	Mabbett	1	0740	0.00
Tailgate H&S meeting and set-up sampling for day. Start gauging all site wells using an oil-water interface probe to get ground elevation data from entire site and to identify any LNAPL present in monitoring wells	Mabbett	1	07745-0900	1.25
Mabbett collects groundwater samples from: MW-03, MW-20, MW-301, MW-302, MW-303, MW-305, MW-306, MW-307, and MW-311.	Mabbett	1	0900-1400	5.00
Gather equipment, clean-up site for day and container low-flow purge water into IDW drum.	Mabbett	1	1400-1430	0.50
Mabbett off-site	Mabbett	1	1430	0.00

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ ~~YES~~	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ ~~NO~~
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ ~~NO~~
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ ~~NO~~

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	YSI Oil-Water Interface Probe	5
Mabbett	2 x YSI Pro-Quatro Multi-Parameter water quality meter	5
Mabbett	Mini-Rae Photo-Ionization Detector	5

ADDITIONAL REMARKS

- 9 monitoring wells sampled today. M W-03, MW-20, MW-301, MW-302, MW-303, MW-305, MW-306, MW-307, and MW-311. Monitoring well sampling complete
- Low-flow purge waters containerized into drums for pickup as non-hazardous waste. Excess garbage removed from Connex trailer.
- Tarp placed over IDW drums for longer term storage.
- Mabbett will finish cleaning up site on Thursday (06/27) and leave the site in the morning.

Prepared by Cassidy E. Way, signed on her behalf by:  June 27, 2024

CONTRACTOR/SUPERINTENDENT DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: September 16, 2024

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	54

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Cassidy E. Way

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Passing clouds with no wind. 97% humidity	Sunny WITH 8-10 mph winds from south. 51-64% humidity	52	82

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett on-site	Mabbett	1	1005	0.00
Tailgate H&S meeting and inventory equipment and expendables for gauging and sampling	Mabbett	1	1005-1105	1.00
Sample monitoring wells MW-03, MW-05, MW-08, & MW-304	Mabbett	1	1105-1520	4.25
Erin Kirby (EK) and Tracy Dorgan (TD) on-site	USACE	1	1205	0.00
EK and TD off-site	USACE	1	1345	0.00
Cleanup site, consolidate purge water into drums, pack samples and organize Connex trailer	Mabbett	1	1520-1605	0.75

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ ~~YES~~	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ ~~NO~~
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ ~~NO~~
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ ~~NO~~

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

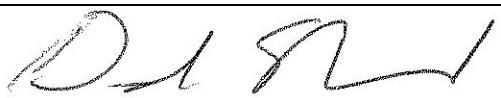
Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	YSI Oil-Water Interface Probe	4
Mabbett	2 x YSI Pro-Quatro Multi-Parameter water quality meter	4.25
Mabbett	Mini-Rae Photo-Ionization Detector	4.25

ADDITIONAL REMARKS

- All monitoring wells gauged with oil-water interface probe. No LNADPL identified in any monitoring well
- 4 monitoring wells sampled today. MW-03, MW-05, MW-08, MW-304
- Low-flow purge waters containerized into drums for pickup as non-hazardous waste. Excess garbage removed from Connex trailer.

Prepared by Cassidy E. Way, signed on her behalf by: 

CONTRACTOR/SUPERINTENDENT

September 17, 2024
DATE

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **September 17, 2024**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	55

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Cassidy E. Way

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Sunny with 0-3 mph winds from north. 73-83% humidity	Cloudy with 6-10 mph winds from west. 40-51% humidity	60	85

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett on-site	Mabbett	1	0755	0.00
Tailgate H&S meeting calibrate sampling equipment and pre-walk off-road trails to coordinate site access and issues	Mabbett	1	0755 – 0840	0.75
Sample monitoring wells MW-20, MW-23, MW-301, MW-303, MW-305, MW-308R, MW-309, MW-310, MW-312R	Mabbett	1	0845-1530	6.75
Erin Kirby (EK) and Tracy Dorgan (TD) on-site	USACE	1	1530	0.00
Pack coolers in by analyte type to accept separate FUDSCHEM chains of custody and cleanup site.	Mabbett	1	1530-1630	1.00
Mabbett and USACE off-site	Mabbett & USACE	1	1630	0.00

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ ~~YES~~ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ ~~NO~~ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ ~~NO~~ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ ~~NO~~ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED — ☒ SAFETY REQUIREMENTS HAVE BEEN MET.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

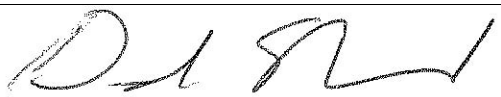
Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	YSI Oil-Water Interface Probe	4
Mabbett	2 x YSI Pro-Quatro Multi-Parameter water quality meter	6.75
Mabbett	Mini-Rae Photo-Ionization Detector	6.75

ADDITIONAL REMARKS

- All monitoring wells gauged with oil-water interface probe. No LNADPL identified in any monitoring well
- 9 monitoring wells sampled today. MW-20, MW-23, MW-301, MW-303, MW-305, MW-308R, MW-309, MW-310, MW-312R
- Low-flow purge waters containerized into drums for pickup as non-hazardous waste. Excess garbage removed from Connex trailer.
- Samples packed in coolers to accept separate FUDSCHEM generated chains of custody in each cooler.

Prepared by Cassidy E. Way, signed on her behalf by: 

CONTRACTOR/SUPERINTENDENT — DATE: September 18, 2024

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REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **September 18, 2024**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	56

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Cassidy E. Way

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Partly sunny with no wind. 76-96% humidity	Partly sunny with 3-7 mph winds from southwest. 33-41% humidity	55	84

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett, Tracy Dorgan (TD) and Erin Kirby (EK) on-site	Mabbett + USACE	1	0800	0.00
Tailgate H&S meeting calibrate sampling equipment and organize bottle ware	Mabbett	1	0800-0900	1.00
Sample monitoring wells MW-302, MW-306, MW-307, and MW-311	Mabbett	1	0900-1300	4.00
Katahdin courier on-site to sign chains of custody and pickup samples from 09/16 and 09/17/2024.	Mabbett	1	1050	0.00
Organize samples and IDW drum staging area. Clean up site	Mabbett	1	1300-1303	0.50
USACE off-site	USACE	1	1305	0.00
Mabbett off-site	Mabbett	1	1330	0.50

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ ~~YES~~ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ ~~NO~~ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ ~~NO~~ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ ~~NO~~ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	YSI Oil-Water Interface Probe	4
Mabbett	2 x YSI Pro-Quatro Multi-Parameter water quality meter	4
Mabbett	Mini-Rae Photo-Ionization Detector	4

ADDITIONAL REMARKS

- 4 monitoring wells sampled today: MW-302, MW-306, MW-307, and MW-311. Groundwater sampling complete
- TD noted that sediment that was observed near the storm drain was likely originating from off-site construction activities. Blasting caps from bomb squad training at the site were identified and are a noted, but minor safety concern.
- Low-flow purge waters containerized into drums for pickup as non-hazardous waste.
- Samples from 09/18 sampling will be taken to Katahdin in morning (09/19).

Prepared by Cassidy E. Way, signed on her behalf by:  September 19, 2024

CONTRACTOR/SUPERINTENDENT DATE

Mabbett®
Scientists | Engineers | Program Managers







Mabbett®
Scientists | Engineers | Program Managers

REMEDIAL INVESTIGATION DAILY PROGRESS REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: **September 19, 2024**

DERP-FUDS Property and Project No.	TITLE AND LOCATION	REPORT NO
D01ME0004 02	Former Dow AFB Aviation Fuel Filter/Drum/TCE Disposal Area Phase III RI, Bangor, ME	57

CONTRACTOR	SUPERINTENDENT
Mabbett & Associates, Inc.	Cassidy E. Way

AM WEATHER	PM WEATHER	MAX TEMP (F)	MIN TEMP (F)
Cloudy to overcast with 9-15 mph wind from north. 70-78% humidity	Partly sunny with 10-15 mph winds from east and northeast. 59-79% humidity	62	68

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	PRIME & SUBCONTRACTORS	NUMBER OR QUANTITY	DURATION (HHMM-HHMM)	HRS
Mabbett on-site	Mabbett 0	1	0845	0.00
Tailgate H&S meeting clear out supplies and expendables from connex trailer, inventory IDW and secure site	Mabbett	1	0845 – 0930	0.75
Mabbett off-site	Mabbett	1	0930	0.00

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE?	☒ ~~YES~~ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ ~~NO~~ NO
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☒ ~~NO~~ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☒ ~~NO~~ NO

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

☒ SAFETY REQUIREMENTS HAVE BEEN MET.

EQUIPMENT/MATERIAL RECEIVED TODAY (INDICATE SCHEDULE ACTIVITY NUMBER)

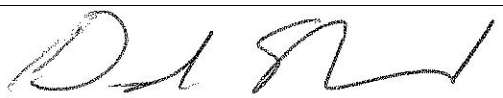
Contractor	Description of Equipment/Material Received

EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Contractor	Description of Equipment Used Today (incl Make and Model)	Hours Used
Mabbett	YSI Oil-Water Interface Probe	0
Mabbett	2 x YSI Pro-Quatro Multi-Parameter water quality meter	0
Mabbett	Mini-Rae Photo-Ionization Detector	0

ADDITIONAL REMARKS

- Total drum inventory at site is as follows:
  - 1 Drum of mixed soil and water decontamination fluid
  - 2 Drums of low-flow purge water from monitoring well sampling
  - 1 Empty drum
- Will plan to remove connex trailer from site in near future.

Prepared by Cassidy E. Way, signed on her behalf by: 

CONTRACTOR/SUPERINTENDENT

September 20, 2024
DATE

ATTACHMENT C

Field Log Sheets

Attachment C-1

Sonic Boring Logs

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 2.31' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 163.00'
EASTING & NORTHING: 897443.96mE, 415209.94mN

START DATE: 09/13/2023
COMPLETION DATE: 09/13/2023
MON. WELL NO.: MW-301
CHECKED BY: JI

BORING NO.: MW/SB-301

Depth (FT)	Surf. Elev. 163	Sample Recovery/ Sample Length	RQD %	Fracture Frequency	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
0	163												
1	162	36/60	NA	0	5	0	NA		10YR 4/2	Dark grayish brown sandy SILT. Organic material near the top. Trace gravel. Slightly moist. No odor/staining.	ML		3.9
2	161												9.5
3	160												9.7
4	159								10YR 4/2	Dark grayish brown Clayey SILT. Little fine sand. Slightly moist. No odor/staining.	CL		5.7
5	158												10.2
6	157	60/60							10YR 4/2	Dark brown silty medium to fine SAND. Some sub-rounded to subangular Gravel. Wet. No odor/staining	SW		1.3
7	156												2.8
8	155												2.9
9	154												2.3
10	153												2.0
11	152	42/60			0.8								1.0
12	151												1.8
13	150												1.9
14	149								10YR 4/2	Dark grayish brown silty CLAY. Some sub-angular Gravel. Slightly moist. No odor/staining.	CL		2.2
15	148												1.8
16	147												2.3
17	146	54/60											1.4
18	145								10YR 4/1	Dark gray clayey SILT. Some sub-rounded to sub-angular Gravel. Slightly Moist. No odor/staining.	ML	Sand lens at 17.50'	4.2
19	144								10YR 5/1	Gray broken rock, coarse sand, pebble to cobble sized gravel. Dry. No odor/staining.	GM	18.5-20.0' Drilling through a boulder	1.4
20													4.0

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 2.31' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 163.00'
EASTING & NORTHING: 897443.96mE, 415209.94mN

START DATE: 09/13/2023
COMPLETION DATE: 09/13/2023
MON. WELL NO.: MW-301
CHECKED BY: JI

BORING NO.: MW/SB-301

Depth (FT)	Surf. Elev. 163	Sample Recovery/ Sample Length	RQD %	Fracture Frequency	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
20	143												
21	142	45/60	NA		0.8		NA		10YR 4/1	Dark gray Silty CLAY. Trace gravel. Moist. No odor/staining.	CL		3.0
22	141												8.6
23	140												9.4
24	139								10YR 4/1	Dark gray clayey SILT. Some fine sand and sub-rounded to sub-angular Gravel. Dense. Dry to slightly moist. No odor/staining.	ML		8.9
25	138												5.0
26	137												6.4
27	136	45/60		0.7					10YR 5/1	Gray broken rock. Fine to coarse SAND. Some sub-rounded to sub-angular Gravel. Dry. No odor/staining.	GW		0.5
28	135												10.2
29	134												8.4
30	133												1.1
31	132	60/60			0.5	0							0.0
32	131												0.0
33	130								10YR 4/1	Dark gray Clayey SILT. Some fine Sand and pebble sized angular to sub-angular Gravel. Wet. No odor/staining.	ML		0.0
34	129						DOW-SB-301 @14:00						0.0
35	128												0.0
36	127	60/60	56%				NA		10YR 5/1	Gray finegrained SILTSTONE. Fracture angles ranging from 10%-75%. Minimal Iron staining throughout. Slickensides and striations present on fractured surfaces. Quartz veins, secondary fractures, and closed fractures present.	SLST	Fracture frequency determined only using pieces larger than 4"	0.0
37	126												0.0
38	125												0.0
39	124												0.0
40													0.0

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 2.31' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 163.00'
EASTING & NORTHING: 897443.96mE, 415209.94mN

START DATE: 09/13/2023
COMPLETION DATE: 09/13/2023
MON. WELL NO.: MW-301
CHECKED BY: JI

BORING NO.: MW/SB-301

Depth (FT)	Surf. Elev. 163	Sample Recovery/ Sample Length	RQD %	Fracture Frequency	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
40	123												
		12/12	56%	0.7	0.5	0	NA		10YR 5/1	SAA.	SLST		0.0
41	122									END OF BORING			
42	121												
43	120												
44	119												
45	118												
46	117												
47	116												
48	115												
49	114												
50	113												
51	112												
52	111												
53	110												
54	109												
55	108												
56	107												
57	106												
58	105												
59	104												
60													

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 2.31' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 160.25'
EASTING & NORTHING: 897627.58mE, 415231.65mN

START DATE: 09/11/2023
COMPLETION DATE: 09/12/2023
MON. WELL NO.: MW-302
CHECKED BY: JI

BORING NO.: MW/SB-302

Depth (FT)	Surf. Elev. 160.25'	Sample Recovery/ Sample Length	RQD %	Fracture Frequency	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
0	160								10YR 5/1	Gray Concrete tarmac. Dry. No odor/staining.	CN		3.3
1	159								10YR 5/1		SW		2.2
2	158	60/60							10YR 4/2	Gray Coarse SAND and medium sub-angular to sub-rounded Gravel fill. Slightly moist. No odor/staining.	SM		2.7
3	157												1.5
4	156								5GY-1	Dark brown and gray Silty SAND. Some sub-rounded Gravel. Moist. No odor/staining.	ML		0.6
5	155				5					Dark greenish gray clayey SILT. Slightly moist. No odor/staining.			0.6
6	154												1.7
7	153	60/60							10YR 5/2	Grayish brown silty CLAY. Slightly moist. No odor/staining.	CL		1.5
8	152												1.5
9	151												1.2
10	150		NA	0		0	NA			Dark gray CLAY. Moist. No odor/staining.			1.7
11	149												0.0
12	148	60/60											0.0
13	147												0.0
14	146												0.0
15	145				0.8				10YR 4/1		CH		0.0
16	144												0.0
17	143	60/60											0.0
18	142												0.0
19	141									Dark gray CLAY. Some pebble to cobble sized sub-rounded to sub-angular Gravel. Moist. No odor/staining.			0.0
20									10YR 4/1		CL		

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 2.31' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 160.25'
EASTING & NORTHING: 897627.58mE, 415231.65mN

START DATE: 09/11/2023
COMPLETION DATE: 09/12/2023
MON. WELL NO.: MW-302
CHECKED BY: JI

BORING NO.: MW/SB-302

Depth (FT)	Surf. Elev. 160.25'	Sample Recovery/ Sample Length	RQD %	Fracture Frequency	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
20	140	60/60	NA	0.75	0.55	0	NA		10YR 5/1	Gray Coarse to fine SAND. Some Sub-rounded to angular Gravel. Some Clay. Wet. No odor/staining.	GC	Fracture frequency determined only using pieces larger than 4"	0.0
21	139												0.0
22	138												0.0
23	137						DOW-SB-302 @17:00						0.0
24	136	60/60	74%				NA		10YR 5/1	Gray finegrained SILTSTONE. Fracture angles ranging from 10%-75%. Minimal Iron staining between 27.5-28.0'. Slickensides and striations present on fractured surfaces. Quartz veins as thick as 0.25", secondary fractures, and closed fractures present.	SLST		0.0
25	135												0.0
26	134												0.0
27	133												0.0
28	132												0.0
29	131												0.0
30	130									END OF BORING			
31	129												
32	128												
33	127												
34	126												
35	125												
36	124												
37	123												
38	122												
39	121												
40	120												
41	119												
42	118												
43	117												
44	116												
45													

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: D. Martin
DRILLING COMPANY: Cascade
DRILLED BY: Dennis Law
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 0.88' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 157.00'
EASTING & NORTHING: 897878.65mE, 415206.40mN

START DATE: 09/19/2023
COMPLETION DATE: 09/19/2023
MON. WELL NO.: MW-303
CHECKED BY: JI

BORING NO.: MW/SB-303

Depth (FT)	Surf. Elev. 157.00'	Sample Recovery/ Sample Length	RQD %	Fracture Frequency (per ft)	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
0	157												
1	156	48/60	NA	0	10	0	NA		10YR 4/3	Gray SILT. Some sub-rounded to sub-angular pebble to cobble sized Gravel. slightly moist to moist. No odor/staining.	GM		0.0
2	155												0.1
3	154												0.0
4	153												0.0
5	152												0.1
6	151	48/60			12				10YR 4/3	Gray CLAY. Fat clay. Mottle in some areas. More compact near 9'. Wet. No odor/staining.	CH		0.1
7	150												0.1
8	149												0.0
9	148												0.0
10	147												0.0
11	146	56/60			10		DOW-SB-303 @14:45		10YR 6/1	Gray SILT. Some sub-angular to sub-rounded Gravel. Saturated. No odor/staining.	SM		0.0
12	145												0.0
13	144												0.0
14	143												0.1
15	142	60/60	17%	0.15	2	0	NA		10YR 6/1	Gray fine grained SILTSTONE. Heavily fractured. Little iron oxide staining. High fracture angles. Quartz veins up to 1/16" thick. Dry. No odor/staining.	SLST	Fracture frequency determined only using pieces larger than 4"	0.0
16	141												0.0
17	140												0.1
18	139												0.2
19	138												0.2
20										END OF BORING			0.0

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 4.10' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 164.30'
EASTING & NORTHING: 897263.22mE 415061.33mN

START DATE: 09/14/2023
COMPLETION DATE: 09/14/2023
MON. WELL NO.: MW-304
CHECKED BY: JI

BORING NO.: MW/SB-304

Depth (FT)	Surf. Elev. 164.30	Sample Recovery/ Sample Length	RQD %	Fracture Frequency	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
0	164	6/60	0%	NA	10	0	NA		10YR 5/2	Grayish brown Silty fine SAND. Some organic material at the 0-1' interval. Slightly Moist. No odor/staining.	SM	Low recovery	0.5
1	163												-
2	162												-
3	161												-
4	160												-
5	159	54/60											1.8
6	158												1.2
7	157												2.5
8	156								10YR 5/2	Grayish brown Clayey SILT. Slightly moist. No odor/staining.	CL		0.6
9	155												0.6
10	154	60/60							10YR 5/2	Grayish brown CLAY. Moist. No odor/staining.	CH		0.1
11	153												1.2
12	152												0.4
13	151												0.1
14	150												0.1
15	149												0.0
16	148												0.6
17	147	60/60							10YR 4/1	Dark gray CLAY. Wet. Sticky. No odor/staining.	CH		0.2
18	146												0.2
19	145												0.2
20													

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 4.10' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 164.30'
EASTING & NORTHING: 897263.22mE 415061.33mN

START DATE: 09/14/2023
COMPLETION DATE: 09/14/2023
MON. WELL NO.: MW-304
CHECKED BY: JI

BORING NO.: MW/SB-304

Depth (FT)	Surf. Elev. 164.30	Sample Recovery/ Sample Length	RQD %	Fracture Frequency	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
20	144	42/60	0%	NA	0.8	0	NA		10YR 4/1	Dark gray CLAY. Wet. Sticky. No odor/staining.	CH	Fracture frequency undetermined	0.0
21	143												0.0
22	142												0.0
23	141												0.0
24	140												0.1
25	139												0.4
26	138	42/60							10YR 5/1	Gray Sand, Silt, Clay, and pebble sized angular to sub-rounded gravel.	GC		0.8
27	137												1.1
28	136						DOW-SB-304 @10:00						0.5
29	135								10YR 6/1	Gray broken rock. Sand and Gravel pieces. Dry. No odor/staining.	GW		1.3
30	134	60/60			0.5		NA		10YR 3/1	Very dark Gray finegrained SILTSTONE. Extremely Fractured. No pieces over 4". Iron staining throughout. Slickensides and striations present on fractured surfaces. Quartz veins, secondary fractures, and closed fractures present.	SLST		1.0
31	133												1.2
32	132												1.3
33	131												1.3
34	130												0.0
35	129									END OF BORING			
36	128												
37	127												
38	126												
39	125												
40	124												
41	123												
42	122												
43	121												
44	120												
45													

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 0.80' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 156.60'
EASTING & NORTHING: 897583.570mE, 415103.88mN

START DATE: 09/12/2023
COMPLETION DATE: 09/12/2023
MON. WELL NO.: MW-305
CHECKED BY: JI

BORING NO.: MW/SB-305

Depth (FT)	Surf. Elev. 156.60	Sample Recovery/ Sample Length	RQD %	Fracture Frequency	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
0	156	45/60	0%	0	10	0	NA		10YR 3/1	Very dark clayey SILT. Fine sands and organics. Slightly moist. No odor/staining.	MH		0.0
1	155												0.0
2	154								10YR 5/1	Gray Silty CLAY. Slightly moist. No odor/staining.	CL		0.5
3	153												0.0
4	152												0.0
5	151	60/60								Gray silty CLAY. Slightly moist. No odor/staining.			0.0
6	150												0.3
7	149												2.9
8	148								10YR 5/1		CL		1.3
9	147												1.1
10	146	60/60			5								0.0
11	145												0.0
12	144								10YR 5/1	Gray fine SAND. Some silt, clay and sub-angular to subrounded gravel. Wet. No odor/staining.	SW		0.0
13	143												0.0
14	142								10YR 5/1	Grey silty CLAY. Little gravel. Slightly moist. No odor/staining.	CL		0.0
15	141	60/60	13%						10YR 5/1	Gray fine SAND. Some silt, clay and sub-angular to subrounded gravel. Wet. No odor/staining.	SW		0.0
16	140								2.5Y 3/1	Very dark Gray fine grained SILTSTONE.	SLST		3.7
17	139												3.8
18	138		0%						10YR 5/1	Clayey SILT. Some coarse to fine SAND. Some Sub-angular to sub-rounded gravel. Wet. No odor/staining.	ML		3.3
19	137												3.4
20													

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 0.80' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 156.60'
EASTING & NORTHING: 897583.570mE, 415103.88mN

START DATE: 09/12/2023
COMPLETION DATE: 09/12/2023
MON. WELL NO.: MW-305
CHECKED BY: JI

BORING NO.: MW/SB-305

Depth (FT)	Surf. Elev. 156.60	Sample Recovery/ Sample Length	RQD %	Fracture Frequency	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
20	136	45/60	0%	0	0.8	0	NA		10YR 5/1	SAA.	GC		1.0
21	135												0.5
22	134												1.4
23	133												1.8
24	132												1.4
25	131	45/60											0.5
26	130												0.2
27	129												0.7
28	128												1.4
29	127												1.3
30	126	48/60					DOW-SB-305 @ 16:30						0.3
31	125												0.3
32	124								10YR 5/1	Light gray to gray GRAVEL. Some coarse to fine Sand. Dry. No odor/staining.	GW		0.2
33	123								10YR 5/1	Grey fine SAND. Some silt, gravel, and clay. Wet. No odor/staining.	SC	Fracture frequency determined only using pieces larger than 4"	0.8
34	122		53%	0.5	0.5		NA						2.0
35	121	19/24							10YR 5/1	Gray finegrained SILTSTONE. Fracture angles ranging from 45%-75%. Iron staining near 36.5' interval. Slickensides and striations present on fractured surfaces. Quartz veins, secondary fractures, and closed fractures present.	SLST		0.9
36	120												0.6
37	119									END OF BORING			
38	118												
39	117												
40	116												
41	115												
42	114												
43	113												
44	112												
45													

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 2.95' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 157.90'
EASTING & NORTHING: 897815.35mE, 415125.98mN

START DATE: 09/14/2023
COMPLETION DATE: 09/14/2023
MON. WELL NO.: MW-306
CHECKED BY: JI

BORING NO.: MW/SB-306

Depth (FT)	Surf. Elev. 157.90	Sample Recovery/ Sample Length	RQD %	Fracture Frequency	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
0													
1	157	60/60	0%	0	10	0	NA		10YR 3/3	Dark brown silty medium to fine SAND. Some rounded to sub-rounded Gravel. Slightly moist. No odor/staining.	GM		1.0
2	156												0.4
3	155									Dark grayish brown Silty CLAY, More gray near 9'. Slightly moist. No odor/staining.			0.5
4	154												0.2
5	153												0.3
6	152	60/60							10YR 4/2		CL		1.2
7	151												0.5
8	150												1.8
9	149												1.2
10	148	60/60			1.5				10YR 3/3	Dark brown silty medium to fine SAND. Some sub-rounded to subangular Gravel. Wet. No odor/staining	SM	Sand lens @ 10' and 13'	0.6
11	147												0.7
12	146												0.5
13	145								10YR 4/1	Dark gray Silty CLAY. Moist. No odor/staining.	CH		0.0
14	144								10YR 3/3	Dark brown silty medium to fine SAND. Little sub-angular gravel. Wet. No odor/staining.	SM		0.7
15	143	60/60							10YR 4/1	Dark gray CLAY. Moist. No odor/staining.	CH		1.0
16	142												0.5
17	141												0.0
18	140								10YR 4/1	Dark gray medium to fine SAND. Some Silt, Clay, and subrounded to sub-angular gravel. Pebble to cobble sized pieces at 19'. Moist. No odor/staining.	SM	One clast slightly bigger than 4"	0.1
19	139												2.0
20	138												0.0

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 2.95' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 157.90'
EASTING & NORTHING: 897815.35mE, 415125.98mN

START DATE: 09/14/2023
COMPLETION DATE: 09/14/2023
MON. WELL NO.: MW-306
CHECKED BY: JI

BORING NO.: MW/SB-306

Depth (FT)	Surf. Elev. 157.90	Sample Recovery/ Sample Length	RQD %	Fracture Frequency	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
20													
21	137	18/18	0%	0	0.3	0	SB-306 @ 15:45		10YR 4/1	Dark gray medium to fine SAND. Some Silt, Clay, and subrounded to sub-angular gravel. Pebble to cobble size. Moist. No odor/staining	SM		0.0
22	136						DUP10						1.0
23	135	54/54	73%	0.9	1.5				10YR 5/1	Gray fine-grained SILTSTONE. Fracture angles ranging from 40%-80%. Iron staining throughout. Slickensides and striations present on fractured surfaces. Quartz veins, up to 1/16" thick, closed fractures, and secondary fractures present. Heavily fractured between the 1-3' interval.	SLST	Fracture frequency determined only using pieces larger than 4"	1.0
24	134												1.2
25	133												0.9
26	132												1.1
27	131									END OF BORING			
28	130												
29	129												
30	128												
31	127												
32	126												
33	125												
34	124												
35	123												
36	122												
37	121												
38	120												
39	119												
40	118												
41	117												
42	116												
43	115												
44	114												
45	113												

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: D. Martin
DRILLING COMPANY: Cascade
DRILLED BY: Dennis Law
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 3.3' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 157.70'
EASTING & NORTHING: 897789.90mE, 415002.63mN

START DATE: 09/18/2023
COMPLETION DATE: 09/18/2023
MON. WELL NO.: MW-307
CHECKED BY: JI

BORING NO.: MW/SB-307

Depth (FT)	Surf. Elev. 157.70	Sample Recovery/ Sample Length	RQD %	Fracture Frequency (per ft)	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
0	157	48/60	0	0	10	0	NA		10YR 4/3	Dark brown fine Sandy SILT. Some sub-rounded cobble sized Gravel. Dry. No odor/staining.	GM		0.0
1	156												0.1
2	155												0.0
3	154												0.0
4	153								10YR 6/1	Grey oxidized mottled CLAY. Wet. No odor/staining.	CL		0.1
5	152	54/60											0.1
6	151												0.1
7	150												0.0
8	149												0.2
9	148												0.2
10	147	48/60			10								0.1
11	146												0.0
12	145												0.0
13	144												0.1
14	143												0.0
15	142	60/60			12				10YR 6/1	Grey GRAVEL. sub-angular to sub-rounded gravel clasts up to 3" in length. Highly fractured. Fine to medium sand intermixed. Slightly moist. No odor/staining.	GM		0.0
16	141												0.2
17	140												0.2
18	139								10YR 6/1	Gray GRAVEL. Sub-angular to sub-rounded. Crushed rock. Highly fractured. Dry. No odor/staining.	GP		0.0
19	138												0.0
20													

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: D. Martin
DRILLING COMPANY: Cascade
DRILLED BY: Dennis Law
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 3.3' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 157.70'
EASTING & NORTHING: 897789.90mE, 415002.63mN

START DATE: 09/18/2023
COMPLETION DATE: 09/18/2023
MON. WELL NO.: MW-307
CHECKED BY: JI

BORING NO.: MW/SB-307

Depth (FT)	Surf. Elev. 157.70	Sample Recovery/ Sample Length	RQD %	Fracture Frequency (per ft)	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
20	137	48/60	0	0	10	0	NA		10YR 4/3	Brown SILT with sub-rounded to sub-angular pebble to cobble sized Gravel. Little medium to coarse sand. Moist. No odor/staining.	GM		0.0
21	136												0.1
22	135												0.0
23	134												0.0
24	133												0.0
25	132	48/60			10		DOW-SB-307 @12:50		10YR 5/3	Pale brown SILT with sub-rounded to sub-angular pebble to cobble sized Gravel. Some fine to coarse Sand. Dry. No odor/staining.	GM		0.1
26	131												0.1
27	130											Fracture frequency determined only using pieces larger than 4"	0.0
28	129												0.0
29	128						NA		10YR 6/1	Grey SILTSTONE. Highly fractured. Striated, foliated, iron oxide staining, quartz veins 1/16" thick, and near vertical fractures. Dry. No odor/staining.	SLST		0.0
30	127	24/24	9%	0.09	2	0							0.0
31	126												0.0
32	125									END OF BORING			
33	124												
34	123												
35	122												
36	121												
37	120												
38	119												
39	118												
40													

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 5.2' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 155.70
EASTING & NORTHING: 897347.65mE, 414841.27mN

START DATE: 02/13/2024
COMPLETION DATE: 02/13/2024
MON. WELL NO.: MW-308R
CHECKED BY: JI

BORING NO.: MW/SB-308R

Depth (FT)	Surf. Elev. 155.70	Sample Recovery/ Sample Length	RQD %	Fracture Frequency (per ft)	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
0									10YR 4/3	Dark brown Sandy SILT. Some organics. Wet. No odor/staining.	SM		0.0
1	155												0.0
2	154	60/60							10YR 5/2	Grayish brown silty CLAY. Mottled clay. Moist. No odor/staining.	CL		0.0
3	153												0.0
4	152												0.0
5	151				5								0.0
6	150	60/60							10YR 5/1	Gray CLAY. Fat Clay. Moist. No odor/staining.	CH		0.0
7	149												0.0
8	148												0.0
9	147												0.0
10	146		0	0		0	NA						0.0
11	145	60/60			3				10YR 4/1	Dark gray CLAY. Sticky and ductile. No odor/staining.	CH		0.0
12	144												0.0
13	143												0.0
14	142												0.0
15	141												0.0
16	140	60/60			2				10YR 5/1	Gray Silty CLAY. Some sub-rounded Gravel. Moist to slightly moist. No odor/staining.	CL		0.0
17	139												0.0
18	138												0.0
19	137												0.0
20	136												0.0

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 5.2' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 155.70
EASTING & NORTHING: 897347.65mE, 414841.27mN

START DATE: 02/13/2024
COMPLETION DATE: 02/13/2024
MON. WELL NO.: MW-308R
CHECKED BY: JI

BORING NO.: MW/SB-308R

Depth (FT)	Surf. Elev. 155.70	Sample Recovery/ Sample Length	RQD %	Fracture Frequency (per ft)	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
20	135	60/60			1		NA		10YR 5/1	SAA. Wet at 20' and dry at 25'.	CL		0.0
21	134												0.0
22	133												0.0
23	132												0.0
24	131												0.0
25	130	60/60	0	0	0.5	0			10YR 5/1	Gray Silty CLAY. Some sub-rounded Gravel. Slightly moist. No odor/staining.	CL		0.0
26	129												0.0
27	128						DOW-SB-308R @13:40						0.0
28	127								10YR 7/1	Lighty Gray GRAVEL. Piece of boulder 4".	GP		0.0
29	126												0.0
30	125	60/60	98%	2.2	0.2		NA		10YR 5/1	Gray SILTSTONE. Iron staining visible near 34'. Fracture angles between 30° to 75°. Slickenlines visible on fracture planes. Calcium carbonate veins visible throughout. Wet. No odor/staining.	SLST	Fracture frequency determined only using pieces larger than 4"	0.0
31	124												0.0
32	123												0.0
33	122												0.0
34	121												0.0
35	120									END OF BORING			
36	119												
37	118												
38	117												
39	116												
40													

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 0.0' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 155.50'
EASTING & NORTHING: 897675.68mE, 414796.25mN

START DATE: 02/15/2024
COMPLETION DATE: 02/15/2024
MON. WELL NO.: MW-309
CHECKED BY: JI

BORING NO.: MW/SB-309

Depth (FT)	Surf. Elev. 155.50	Sample Recovery/ Sample Length	RQD %	Fracture Frequency (per ft)	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
0	155												0.0
1	154	60/60	0	0	5	0	NA		10YR 4/3	Brown Sandy SILT. Some Clay and Organic material. Wet. No odor/staining.	ML		0.0
2	153									Grayish brown Silty CLAY. Slightly moist. No odor/staining.			0.0
3	152								10YR 5/2		CL		0.0
4	151												0.0
5	150	60/60								Grayish brown Silty CLAY. Mottled clay. Moist. No odor/staining.			0.0
6	149												0.0
7	148								10YR 5/1		CL		0.0
8	147												0.0
9	146												0.0
10	145	60/60			2.5					Dark gray CLAY. Fat clay. Moist. No odor/staining.			0.0
11	144												0.0
12	143								10YR 4/1		CH		0.0
13	142												0.0
14	141												0.0
15	140	60/60			1								0.0
16	139												0.0
17	138												0.0
18	137								10YR 4/1	Dark gray Sandy SILT. Some Clay and sub-rounded to rounded Gravel. Clasts up to 2.5". Moist. No odor/staining.	ML		0.0
19	136												0.0
20													

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 0.0' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 155.50'
EASTING & NORTHING: 897675.68mE, 414796.25mN

START DATE: 02/15/2024
COMPLETION DATE: 02/15/2024
MON. WELL NO.: MW-309
CHECKED BY: JI

BORING NO.: MW/SB-309

Depth (FT)	Surf. Elev. 155.50	Sample Recovery/ Sample Length	RQD %	Fracture Frequency (per ft)	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
20	135	45/60	0	0	0.5	0	NA		10YR 4/1	SAA.	CL		0.0
21	134												0.0
22	133												0.0
23	132												0.0
24	131												0.0
25	130	48/60											0.0
26	129												0.0
27	128								10YR 5/1	Gray Silty SAND. Some sub-rounded Gravel. Clasts up to 4". Dry. No odor/staining.	GM		0.0
28	127												0.0
29	126												0.0
30	125	60/60							10YR 5/1	Gray Sandy SILT. Some Clay and sub-rounded to rounded Gravel. Clasts up to 2". Slightly moist. No odor/staining.	ML		0.0
31	124												0.0
32	123								10YR 6/1	Gray Silty SAND. Some sub-angular to sub-rounded Gravel. Dry. No odor/staining.	GM		0.0
33	122	60/60							10YR 5/1	Gray Sandy SILT. Some Clay and sub-angular to sub-rounded Gravel. Clasts up to 2". Slightly Moist. No odor/staining.	GM		0.0
34	121												0.0
35	120												0.0
36	119												0.0
37	118												0.0
38	117												0.0
39	116								10YR 4/3	Brown coarse to fine SAND. Some angular to sub-rounded Gravel. Wet. No odor/staining.	SW		0.0
40													

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 0.0' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 155.50'
EASTING & NORTHING: 897675.68mE, 414796.25mN

START DATE: 02/15/2024
COMPLETION DATE: 02/15/2024
MON. WELL NO.: MW-309
CHECKED BY: JI

BORING NO.: MW/SB-309

Depth (FT)	Surf. Elev. 155.50	Sample Recovery/ Sample Length	RQD %	Fracture Frequency (per ft)	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
40													
41	115								10YR 4/3	SAA.	GW		
42	114								10YR 5/2	Grayish brown Silty SAND. Some sub-angular to sub-rounded Gravel. Dry. No odor/staining.	SM		
43	113	60/60							10YR 7/1		GM		
44	112								10YR 6/2		GM		0.0
45	111		0	0	0.4		NA		10YR 6/3	Light gray Silty SAND. Some sub-angular to sub-rounded Gravel. Dry. No odor/staining.	GM		
46	110								10YR 5/3	Light brown and Gray Silty SAND. Some sub-angular to sub-rounded Gravel. Dry. No odor/staining.	GW		
47	109								10YR 5/2	Pale brown Silty SAND. Some sub-angular to sub-rounded Gravel. Dry. No odor/staining.	GM		
48	108	60/60				0				Brown fine SAND with Some sub-angular to sub-rounded Gravel. Clasts up to 3.5". Dry. No odor/staining.			0.0
49	107						DOW-SB-309 @16:00						
50	106								10YR 5/2	Grayish brown Silty SAND. Some sub-angular to sub-rounded Gravel. Wet. No odor/staining.	SW		
51	105									Gray coarse to fine SAND. Some sub-angular to sub-rounded Gravel. Wet. No odor/staining.			
52	104												
53	103	60/60	0	0	0.2		NA		10YR 5/1	Gray highly weathered SILTSTONE. No pieces over 4". Abundent iron staining, slickenlines, and fratures. Wet. No odor/staining.	SLST	Fracture frequency determined only using pieces larger than 4"	0.0
54	102												
55	101												
56	100									END OF BORING			
57	99												
58	98												
59	97												
60	96												

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 0.0' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 154.50'
EASTING & NORTHING: 897527.05mE, 414631.14mN

START DATE: 02/14/2024
COMPLETION DATE: 02/14/2024
MON. WELL NO.: MW-310
CHECKED BY: JI

BORING NO.: MW/SB-310

Depth (FT)	Surf. Elev. 154.50	Sample Recovery/ Sample Length	RQD %	Fracture Frequency (per ft)	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
0	154								10YR 5/2	Grayish brown silty SAND. Some Organics. Slightly moist. No odor/staining.	SM		0.0
1	153												0.0
2	152	60/60								Grayish brown Silty CLAY. Slightly moist. No odor/staining.			0.0
3	151												0.0
4	150												0.0
5	149				5				10YR 5/2		CL		0.0
6	148	60/60											0.0
7	147												0.0
8	146												0.0
9	145												0.0
10	144		0	0		0	NA			Dark gray CLAY. Fat Clay. Moist. No odor/staining.			0.0
11	143												0.0
12	142	60/60			2.5				10YR 4/1		CH		0.0
13	141												0.0
14	140												0.0
15	139									Gray Sandy SILT with Some Clay. Some sub-rounded Gravel. Wet. Saturated at 20'. No odor/staining.			0.0
16	138												0.0
17	137	60/60			1				10YR 5/1		ML		0.0
18	136												0.0
19	135												0.0
20													

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 0.0' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 154.50'
EASTING & NORTHING: 897527.05mE, 414631.14mN

START DATE: 02/14/2024
COMPLETION DATE: 02/14/2024
MON. WELL NO.: MW-310
CHECKED BY: JI

BORING NO.: MW/SB-310

Depth (FT)	Surf. Elev. 154.50	Sample Recovery/ Sample Length	RQD %	Fracture Frequency (per ft)	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
20	134												0.0
21	133												0.0
22	132	42/60							10YR 5/1	SAA.	ML		0.0
23	131												0.0
24	130												0.0
25	129				0.6								0.0
26	128												0.0
27	127	60/60					NA		10YR 5/1	Gray Silty SAND. Some sub-rounded to sub-angular Gravel. Well graded. Gravel clasts up to 3". Dry. No odor/staining.	SM		0.0
28	126		0	0									0.0
29	125												0.0
30	124					0							0.0
31	123	60/60							10YR 5/1	Gray Gravelly Silty CLAY. Pebble to Cobble sized sub-rounded gravel. Well graded. Dense. Dry. No odor/staining.	CL		0.0
32	122												0.0
33	121				0.5								0.0
34	120												0.0
35	119	60/60							10YR 6/1	Gray Silty SAND. Some sub-angular to sub-rounded Gravel. Dry No odor/staining.	SW	Fracture frequency determined only using pieces larger than 4"	0.0
36	118						DOW-SB-310 @14:11		10YR 5/1	Gray Silty SAND. Some Clay. Some sub-rounded Gravel with clasts up to 3". Dry. No odor/staining.	DW		0.0
37	117						NA						0.0
38	116	60/60	47%	0.7	0.2				10YR 5/1	Gray GREYWACKE. Iron staining visible from 38'-40'. Low to medium fracture angles. Slickenlines visible on fracture planes. Thick calcium carbonate veins up to 1" thick. Wet. No odor/staining.	GRWK		0.0
39	115												0.0
40													

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: J. Idzenga, PG
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 0.0' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 154.50'
EASTING & NORTHING: 897527.05mE, 414631.14mN

START DATE: 02/14/2024
COMPLETION DATE: 02/14/2024
MON. WELL NO.: MW-310
CHECKED BY: JI

BORING NO.: MW/SB-310

Depth (FT)	Surf. Elev. 154.50	Sample Recovery/ Sample Length	RQD %	Fracture Frequency (per ft)	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
40	114	60/60	47%	0.7	0.2	0	NA		10YR 5/1	SAA.	GRWK		0.0
41	113												0.0
42	112												0.0
43	111									END OF BORING			
44	110												
45	109												
46	108												
47	107												
48	106												
49	105												
50	104												
51	103												
52	102												
53	101												
54	100												
55	99												
56	98												
57	97												
58	96												
59	95												
60													

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: D. Martin
DRILLING COMPANY: Cascade
DRILLED BY: Dennis Law
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 1.75' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 156.60'
EASTING & NORTHING: 898031.16mE, 415155.92mN

START DATE: 09/20/2023
COMPLETION DATE: 09/20/2023
MON. WELL NO.: MW-311
CHECKED BY: JI

BORING NO.: MW/SB-311

Depth (FT)	Surf. Elev. 156.60	Sample Recovery/ Sample Length	RQD %	Fracture Frequency (per ft)	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
0	156	40/60	0	0	10	0	NA		10YR 5/2	Grayish brown SILT with some sub-angular to sub-rounded pebble to cobble sized Gravel. Clasts up to 4" in length. Dry. No odor/staining.	ML	Fracture frequency determined only using pieces larger than 4"	0.0
1	155												0.4
2	154												0.3
3	153												0.3
4	152												0.0
5	151	60/60			12				10YR 5/1	Gray CLAY. Moist. No odor/staining.	CL		0.2
6	150												0.0
7	149												0.2
8	148												0.1
9	147												0.0
10	146	40/60			12								0.0
11	145												0.0
12	144						DOW-SB-311 @09:15		10YR 5/1	Gray CLAY. Wet. No odor/staining.	CL		0.3
13	143												0.4
14	142	60/60	0%	0	10		NA		10YR 5/1	Gray SILT with some sub-angular to sub-rounded pebble to cobble sized Gravel. Clasts up to 5" in length. Dry. No odor/staining.	ML		0.3
15	141								10YR 4/1		ML		0.2
16	140								10YR 7/1	Dark Gray SILT with some sub-angular to sub-rounded crushed Gravel. Dry. No odor/staining.	CM		0.2
17	139								10YR 6/1	Light gray SILTSTONE. Crushed/powdered. No clean fractures. Dry. No odor/staining.	CM		0.1
18	138									Gray SILTSTONE. Mostly crushed up with some pebble to cobble sized pieces. No clean fractures. Dry. No odor/staining.			0.0
19	137												0.0
20													

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: D. Martin
DRILLING COMPANY: Cascade
DRILLED BY: Dennis Law
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 1.75' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 156.60'
EASTING & NORTHING: 898031.16mE, 415155.92mN

START DATE: 09/20/2023
COMPLETION DATE: 09/20/2023
MON. WELL NO.: MW-311
CHECKED BY: JI

BORING NO.: MW/SB-311

Depth (FT)	Surf. Elev. 156.60	Sample Recovery/ Sample Length	RQD %	Fracture Frequency (per ft)	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
20	136	12/12	0%	0	4	0	NA		10YR 6/1	Gray SILTSTONE. Sub-angular to sub-rounded Gravel. Clasts up to 2" in length. Dry. No odor/staining.	CM		0.0
21	135									END OF BORING			
22	134												
23	133												
24	132												
25	131												
26	130												
27	129												
28	128												
29	127												
30	126												
31	125												
32	124												
33	123												
34	122												
35	121												
36	120												
37	119												
38	118												
39	117												
40													

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: N. Podmaska, GIT
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 3.46' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 154.60'
EASTING & NORTHING: 897973.31mE, 414778.19mN

START DATE: 02/20/2024
COMPLETION DATE: 02/20/2024
MON. WELL NO.: MW-312R
CHECKED BY: JI

BORING NO.: MW/SB-312R

Depth (FT)	Surf. Elev. 154.60	Sample Recovery/ Sample Length	RQD %	Fracture Frequency (per ft)	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
0	154								10YR 4/2	Grayish brown Silty CLAY. Some Organic material including roots and stems. Slightly moist. No odor/staining.	OL		0.0
1	153												0.0
2	152	51/60							10YR 4/3	Grayish brown Silty CLAY. Slightly moist. No odor/staining.	CL		0.0
3	151												0.0
4	150												0.0
5	149				10								0.0
6	148	60/60							10YR 4/3	Grayish brown Silty CLAY. Some coarse Sand and sub-rounded pebble sized Gravel intermixed within the lean clay. Slightly moist. No odor/staining.	CL		0.0
7	147												0.0
8	146												0.0
9	145												0.0
10	144		0	0		0	NA						0.0
11	143												0.0
12	142	38/60			10				10YR 4/1	Grayish brown Silty CLAY. Some coarse Sand and sub-rounded pebble sized Gravel. Moist to saturated. No odor/staining.	CL		0.0
13	141												0.0
14	140												0.0
15	139												0.0
16	138												0.0
17	137	38/60			5				10YR 5/1	Compact grayish brown Silty fine to coarse SAND with some sub-angular to sub-rounded pebble sized Gravel. Dry. No odor/staining.	GM		0.0
18	136												0.0
19	135												0.0
20													

PROJECT NAME: Former DOW AFB Aviation Fuel Filter/ Drum/TCE Disposal Area Phase III RI, Bangor, ME
PROJECT NO.: D01ME0004 02
LOGGED BY: N. Podmaska, GIT
DRILLING COMPANY: Cascade
DRILLED BY: Oiden Gonzalez
TYPE OF DRILLING RIG: Boart Longyear
METHOD OF DRILLING: Sonic Drilling
METHOD OF SAMPLING: Discrete
GROUNDWATER LEVELS: 3.46' below ground surface (bgs)

TRANSCRIBED BY: E. Boesch Dining
ELEVATION FROM GROUND SURFACE: 154.60'
EASTING & NORTHING: 897973.31mE, 414778.19mN

START DATE: 02/20/2024
COMPLETION DATE: 02/20/2024
MON. WELL NO.: MW-312R
CHECKED BY: JI

BORING NO.: MW/SB-312R

Depth (FT)	Surf. Elev. 154.60	Sample Recovery/ Sample Length	RQD %	Fracture Frequency (per ft)	Pentration Rate (ft./min)	Fluid Loss	Sample Time & Sample No. (QA/QC Status)	Graphic	Munsell Color Notation	DESCRIPTION	USCS	REMARKS	Field Screening (ppmv)
20	134								10YR 6/1	Pulverized gray sub-angular to sub-rounded GRAVEL with silty fine Sand. Clasts up to 3" in length. Dry. No odor/staining.	GM		0.0
21	133												0.0
22	132	35/60			2				10YR 5/2	Grayish brown Silty CLAY. Lean clay. Some coarse grained Sand and trace sub-angular to sub-rounded gravel. Dry. No odor/staining.	CL		0.0
23	131												0.0
24	130												0.0
25	129						NA		10YR 5/2	Brownish gray silty fine SAND. Some angular to sub-angular pebble sized Gravel. Dry. No odor/staining.	SM		0.0
26	128												0.0
27	127	60/60	0	0	1				10YR 6/1	Gray fine SAND with pulverized rock fragments 1" to 3" in length. Trace amount of iron staining observed on larger clasts. Dry. No odor/staining.	GW		0.0
28	126												0.0
29	125												0.0
30	124					0			10YR 5/2	Grayish brown silty fine to coarse SAND. Moist. No odor/staining.	SM		0.0
31	123						DOW-SB-312R @11:10		10YR 6/1	Gray sub-angular to sub-rounded GRAVEL. Clasts 1"-2" in length. Some coarse Sand. Wet. No odor/staining.	GP		0.0
32	122	60/60			0.5								0.0
33	121								10YR 7/1	Light gray very fine SAND. Some rock dust and sub-angular Gravel with clasts up to 2" in length. Wet. No odor/staining.	GP		0.0
34	120												0.0
35	119						NA					Fracture frequency determined only using pieces larger than 4"	0.0
36	118												0.0
37	117	60/60	0%	0	0.3				10YR 6/1	Gray fine grained SILTSTONE. Sub-angular clasts up to 2" in length. Iron staining observed. Fracture angles range from 70%-80%. Thin quartz veins visible in the clasts. Wet. No odor/staining	SLST		0.0
38	116												0.0
39	115												0.0
40										END OF BORING			0.0

Attachment C-2

Monitoring Well Construction Logs

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MW-301

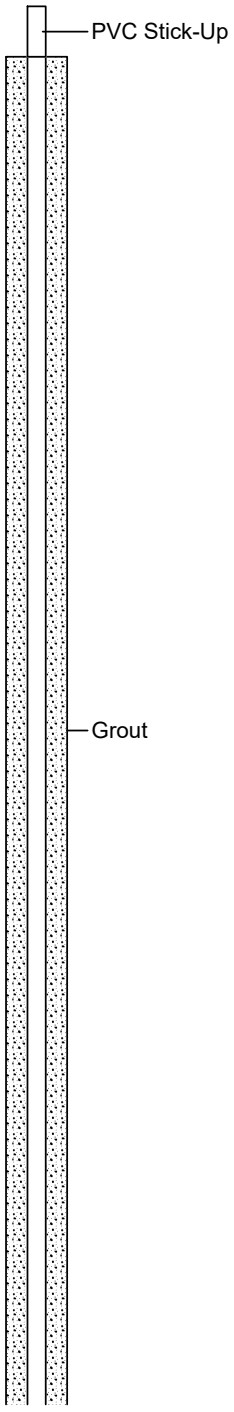
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 09/13/2023	Drilling Method	: Sonic Drilling
Completion Date	: 09/13/2023	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 163.00
Drilling Company	: Cascade	Logged By	: J. Idzenga
Driller	: Oiden Gonzalez	Transcribed By	: E. Boesch Dining

Depth in Feet	Surf. Elev. 163.00	USCS	GRAPHIC	Munsell Color	DESCRIPTION
0	163	MLSM		10YR 4/2	Dark grayish brown sandy SILT. Organic material near the top. Trace gravel. Slightly moist. No odor/staining.
		MLCL		10YR 4/2	Dark grayish brown Clayey SILT. Little fine sand. Slightly moist. No odor/staining.
5	158	SM		10YR 4/2	Dark brown silty medium to fine SAND. Some sub-rounded to subangular Gravel. Wet. No odor/staining.
10	153	CLML		10YR 4/2	Dark grayish brown silty CLAY. Some sub-angular Gravel. Slightly moist. No odor/staining.
15	148	CH		10YR 4/1	Dark gray clayey SILT. Some sub-rounded to sub-angular Gravel. Slightly Moist. No odor/staining.
		GP		10YR 5/1	Gray broken rock, coarse sand, pebble to cobble sized gravel. Dry. No odor/staining.
20					

Well: MW-301
TOC: 165.60



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MW-301

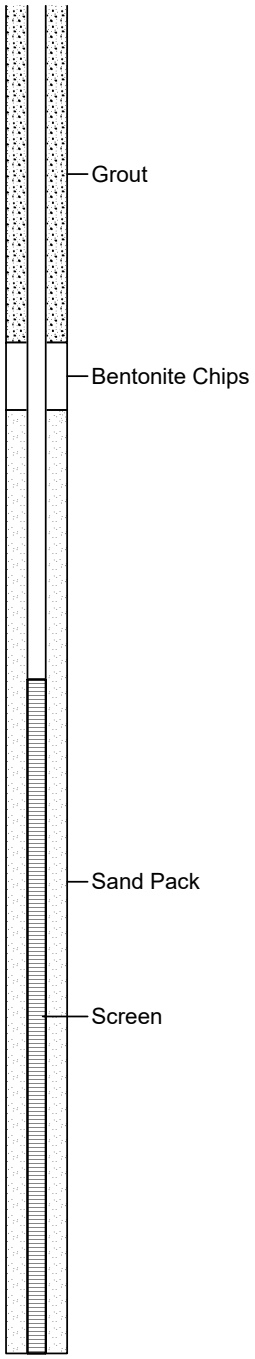
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 09/13/2023	Drilling Method	: Sonic Drilling
Completion Date	: 09/13/2023	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 163.00
Drilling Company	: Cascade	Logged By	: J. Idzenga
Driller	: Oiden Gonzalez	Transcribed By	: E. Boesch Dining

Depth in Feet	Surf. Elev. 163.00	USCS	GRAPHIC	Munsell Color	DESCRIPTION
20	143	MLCL		10YR 4/1	Dark gray Silty CLAY. Trace gravel. Moist. No odor/staining.
		CLML		10YR 4/1	Dark gray clayey SILT. Some fine sand and sub-rounded to sub-angular Gravel. Dense. Dry to slightly moist. No odor/staining.
25	138	GP		10YR 5/1	Gray broken rock. Fine to coarse SAND. Some sub-rounded to sub-angular Gravel. Dry. No odor/staining.
30	133	MLCL		10YR 4/1	Dark gray Clayey SILT. Some fine Sand and pebble sized angular to sub-angular Gravel. Wet. No odor/staining.
35	128	CM		10YR 5/1	Gray finegrained SILTSTONE. Fracture angles ranging from 10%-75%. Minimal Iron staining throughout. Slickensides and striations present on fractured surfaces. Quartz veins, secondary fractures, and closed fractures present.
40					

Well: MW-301
TOC: 165.60



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MW-301

Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 09/13/2023	Drilling Method	: Sonic Drilling
Completion Date	: 09/13/2023	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 163.00
Drilling Company	: Cascade	Logged By	: J. Idzenga
Driller	: Oiden Gonzalez	Transcribed By	: E. Boesch Dining

Depth in Feet	Surf. Elev. 163.00	USCS	GRAPHIC	Munsell Color	DESCRIPTION	Well: MW-301 TOC: 165.60
40	123	CM		10YR 5/1		Bentonite Chips
45	118					
50	113					
55	108					
60						

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MW-302

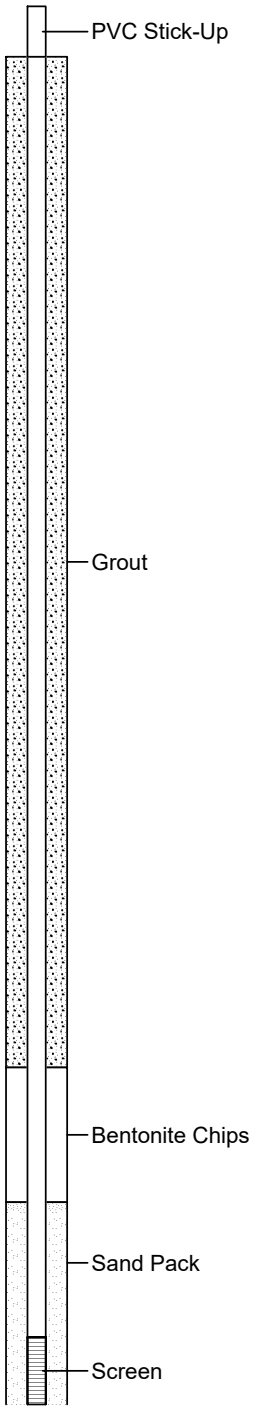
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 09/11/2023	Drilling Method	: Sonic Drilling
Completion Date	: 09/11/2023	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 160.25
Drilling Company	: Cascade	Logged By	: J. Idzenga
Driller	: Oiden Gonzalez	Transcribed By	: E. Boesch Dining

Depth in Feet	Surf. Elev. 160.25	USCS	GRAPHIC	Munsell Color	DESCRIPTION
0	160	NA		10YR 5/1	Gray Concrete tarmac. Dry. No odor/staining.
		SP		10YR 5/1	Gray Coarse SAND and medium sub-angular to sub-rounded Gravel fill. Slightly moist. No odor/staining.
		SM		10YR 4/2	Dark brown and gray Silty SAND. Some sub-rounded Gravel. Moist. No odor/staining.
		MLCL		5GY 1/2	Dark greenish gray clayey SILT. Slightly moist. No odor/staining.
5	155	CLML		10YR 5/2	Grayish brown silty CLAY. Slightly moist. No odor/staining.
10	150	CL		10YR 4/1	Dark gray CLAY. Moist. No odor/staining.
15	145				
20		CLGP		10YR 4/1	Dark gray CLAY. Some pebble to cobble sized sub-rounded to sub-angular Gravel. Moist. No odor/staining.

Well: MW-302
TOC: 160.18



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MW-302

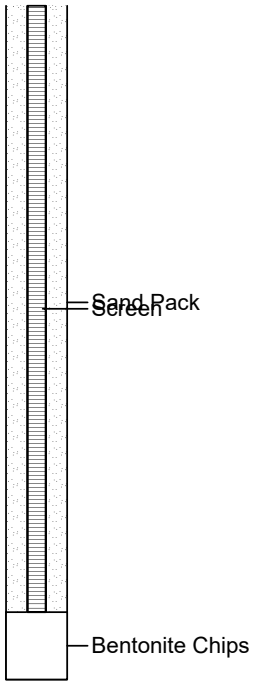
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 09/11/2023	Drilling Method	: Sonic Drilling
Completion Date	: 09/11/2023	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 160.25
Drilling Company	: Cascade	Logged By	: J. Idzenga
Driller	: Oiden Gonzalez	Transcribed By	: E. Boesch Dining

Depth in Feet	Surf. Elev. 160.25	USCS	GRAPHIC	Munsell Color	DESCRIPTION
20	140	SPGP		10YR 5/1	Gray Coarse to fine SAND. Some Sub-rounded to angular Gravel. Some Clay. Wet. No odor/staining.
25	135	CM		10YR 5/1	Gray finegrained SILTSTONE. Fracture angles ranging from 10%-75%. Minimal Iron staining between 27.5-28.0'. Slickensides and striations present on fractured surfaces. Quartz veins as thick as 0.25", secondary fractures, and closed fractures present.
30	130				
35	125				
40					

Well: MW-302
TOC: 160.18



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MW-303

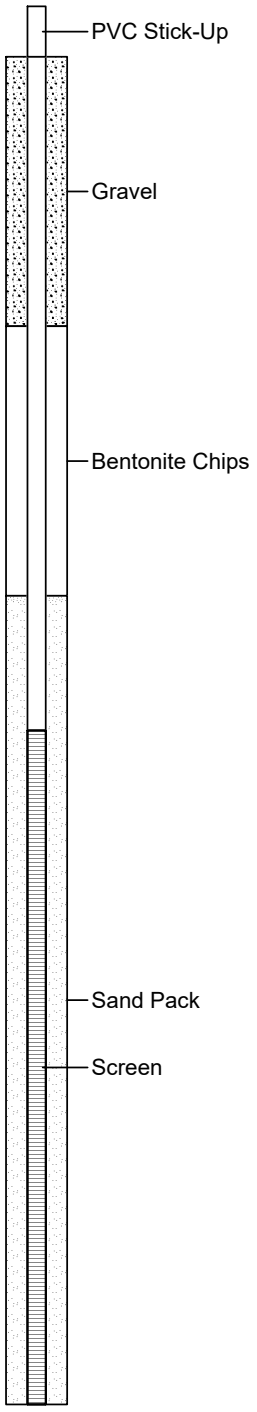
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 09/19/2023	Drilling Method	: Sonic Drilling
Completion Date	: 09/19/2023	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 157.00
Drilling Company	: Cascade	Logged By	: D. Martin
Driller	: Dennis Law	Transcribed By	: J. Idzenga, PG

Depth in Feet	Surf. Elev. 157.00	USCS	GRAPHIC	Munsell Color	DESCRIPTION
0	157	ML		10YR 4/3	Gray SILT. Some sub-rounded to sub-angular pebble to cobble sized Gravel. slightly moist to moist. No odor/staining.
5	152	CL		10YR 4/3	Gray CLAY. Fat clay. Mottle in some areas. More compact near 9'. Wet. No odor/staining.
10	147	ML		10YR 6/1	Gray SILT. Some sub-angular to sub-rounded Gravel. Saturated. No odor/staining.
15	142	CM		10YR 6/1	Gray fine grained SILTSTONE. Heavily fractured. Little iron oxide staining. High fracture angles. Quartz veins up to 1/16" thick. Dry. No odor/staining.
20					

Well: MW-303
TOC: 159.42



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MW-304

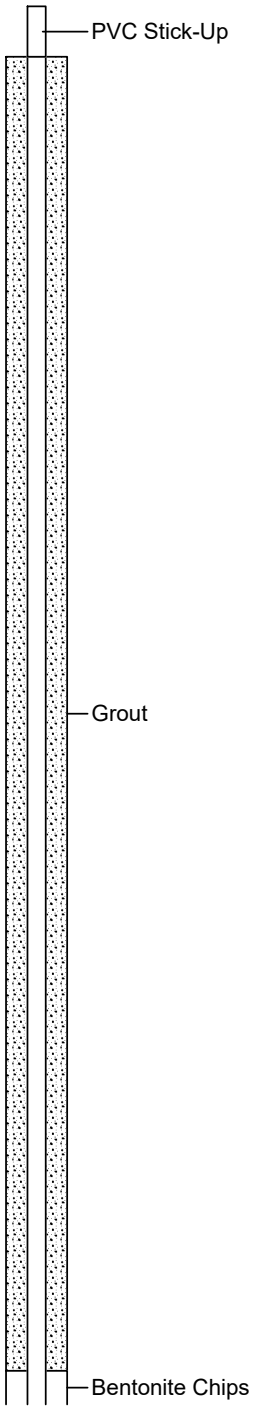
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 09/14/2023	Drilling Method	: Sonic Drilling
Completion Date	: 09/14/2023	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 164.30
Drilling Company	: Cascade	Logged By	: J. Idzenga
Driller	: Oiden Gonzalez	Transcribed By	: E. Boesch Dining

Depth in Feet	Surf. Elev. 164.30	USCS	GRAPHIC	Munsell Color	DESCRIPTION
0	164	SM		10YR 5/2	Grayish brown Silty fine SAND. Some organic material at the 0-1' interval. Slightly Moist. No odor/staining.
5	159				
10	154	MLCL		10YR 5/2	Grayish brown Clayey SILT. Slightly moist. No odor/staining.
		CL		10YR 5/2	Grayish brown CLAY. Moist. No odor/staining.
15	149				
		CL		10YR 4/1	Dark gray CLAY. Wet. Sticky. No odor/staining
20					

Well: MW-304
TOC: 167.05



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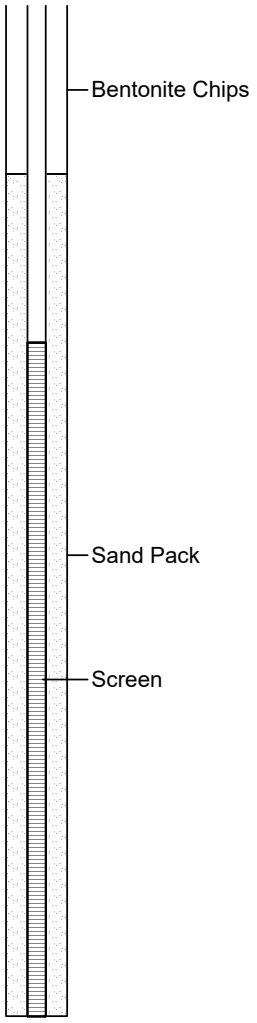
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 09/14/2023	Drilling Method	: Sonic Drilling
Completion Date	: 09/14/2023	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 164.30
Drilling Company	: Cascade	Logged By	: J. Idzenga
Driller	: Oiden Gonzalez	Transcribed By	: E. Boesch Dining

Depth in Feet	Surf. Elev. 164.30	USCS	GRAPHIC	Munsell Color	DESCRIPTION
20	144	CL		10YR 4/1	
25	139	SM		10YR 5/1	Gray Sand, Silt, Clay, and pebble sized angular to sub-rounded gravel.
		GP		10YR 6/1	Gray broken rock. Sand and Gravel pieces. Dry. No odor/staining
30	134	CM		10YR 3/1	Very dark Gray finegrained SILTSTONE. Extremely Fractured. No pieces over 4". Iron staining throughout. Slickensides and striations present on fractured surfaces. Quartz veins, secondary fractures, and closed fractures present.
35	129				
40					

Well: MW-304
TOC: 167.05



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MW-305

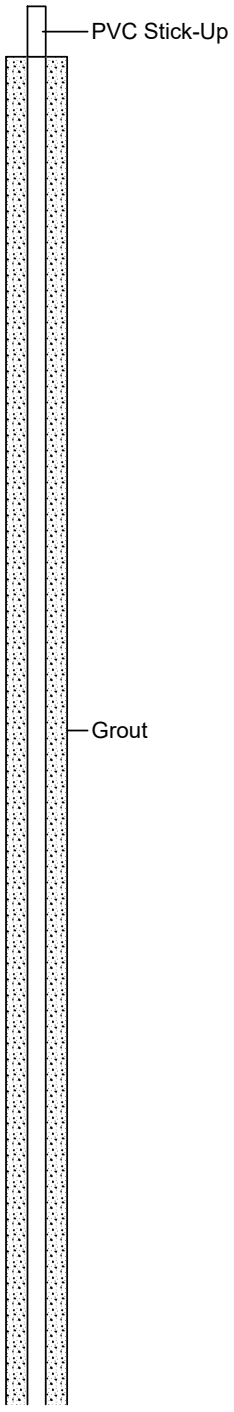
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 09/12/2023	Drilling Method	: Sonic Drilling
Completion Date	: 09/12/2023	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 156.60
Drilling Company	: Cascade	Logged By	: J. Idzenga
Driller	: Oiden Gonzalez	Transcribed By	: E. Boesch Dining

Depth in Feet	Surf. Elev. 156.60	USCS	GRAPHIC	Munsell Color	DESCRIPTION
0	156	MLCL		10YR 3/1	Very dark clayey SILT. Fine sands and organics. Slightly moist. No odor/staining.
		CLML		10YR 5/1	Gray Silty CLAY. Slightly moist. No odor/staining.
5	151	CLML		10YR 5/1	Gray silty CLAY. Slightly moist. No odor/staining.
10	146	MH		10YR 5/1	Gray fine SAND. Some silt, clay and sub-angular to subrounded gravel. Wet. No odor/staining.
		CLML		10YR 5/1	Grey silty CLAY. Little gravel. Slightly moist. No odor/staining.
15	141	SP		10YR 5/1	Gray fine SAND. Some silt, clay and sub-angular to subrounded gravel. Wet. No odor/staining.
		CM		2.5Y 3/1	Very dark Gray fine grained SILTSTONE.
20		MLCL		10YR 5/1	Clayey SILT. Some coarse to fine SAND. Some Sub-angular to sub-rounded gravel. Wet. No odor/staining.

Well: MW-305
TOC: 159.60



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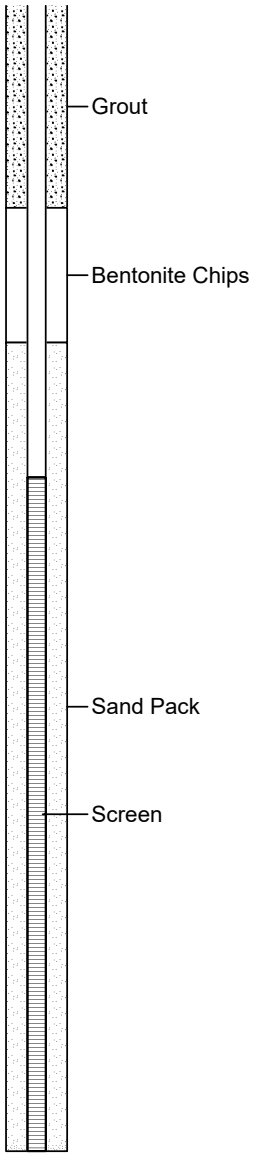
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 09/12/2023	Drilling Method	: Sonic Drilling
Completion Date	: 09/12/2023	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 156.60
Drilling Company	: Cascade	Logged By	: J. Idzenga
Driller	: Oiden Gonzalez	Transcribed By	: E. Boesch Dining

Depth in Feet	Surf. Elev. 156.60	USCS	GRAPHIC	Munsell Color	DESCRIPTION
20	136				
25	131	MLCL		10YR 5/1	
30	126	GP		10YR 5/1	Light gray to gray GRAVEL. Some coarse to fine Sand. Dry. No odor/staining.
		SP		10YR 5/1	Grey fine SAND. Some silt, gravel, and clay. Wet. No odor/staining.
35	121	CM		10YR 5/1	Gray finegrained SILTSTONE. Fracture angles ranging from 45%-75%. Iron staining near 36.5' interval. Slickensides and striations present on fractured surfaces. Quartz veins, secondary fractures, and closed fractures present.
40					

Well: MW-305
TOC: 159.60



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MW-306

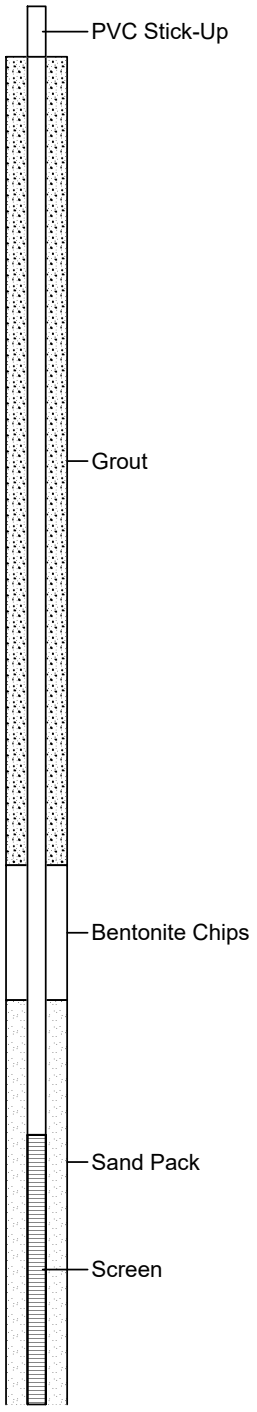
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 09/14/2023	Drilling Method	: Sonic Drilling
Completion Date	: 09/15/2023	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 157.90
Drilling Company	: Cascade	Logged By	: J. Idzenga
Driller	: Oiden Gonzalez	Transcribed By	: E. Boesch Dining

Depth in Feet	Surf. Elev. 157.90	USCS	GRAPHIC	Munsell Color	DESCRIPTION
0					
	157	SP		10YR 3/3	Dark brown silty medium to fine SAND. Some rounded to sub-rounded Gravel. Slightly moist. No odor/staining.
		CLML		10YR 4/2	Dark grayish brown Silty CLAY, More gray near 9'. Slightly moist. No odor/staining.
5	152				
10					
	147	SP		10YR 3/3	Dark brown silty medium to fine SAND. Some sub-rounded to subangular Gravel. Wet. No odor/staining.
		CLML		10YR 4/1	Dark gray Silty CLAY. Moist. No odor/staining.
		SP		10YR 3/3	Dark brown silty medium to fine SAND. Little sub-angular gravel. Wet. No odor/staining.
15	142	CL		10YR 4/1	Dark gray CLAY. Moist. No odor/staining.
		SP		10YR 4/1	Dark gray medium to fine SAND. Some Silt, Clay, and subrounded to sub-angular gravel. Pebble to cobble sized pieces at 19'. Moist. No odor/staining.
20					

Well: MW-306
TOC: 160.30



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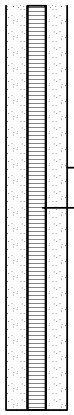
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 09/14/2023	Drilling Method	: Sonic Drilling
Completion Date	: 09/15/2023	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 157.90
Drilling Company	: Cascade	Logged By	: J. Idzenga
Driller	: Oiden Gonzalez	Transcribed By	: E. Boesch Dining

Depth in Feet	Surf. Elev. 157.90	USCS	GRAPHIC	Munsell Color	DESCRIPTION
20					
	137	SP		10YR 4/1	Dark gray medium to fine SAND. Some Silt, Clay, and subrounded to sub-angular gravel. Pebble to cobble size. Moist. No odor/staining.
		CM		10YR 5/1	Gray fine-grained SILTSTONE. Fracture angles ranging from 40%-80%. Iron staining throughout. Slickensides and striations present on fractured surfaces. Quartz veins, up to 1/16" thick, closed fractures, and secondary fractures present. Heavily fractured between the 1-3' interval.
25	132				
30	127				
35	122				
40					

Well: MW-306
TOC: 160.30



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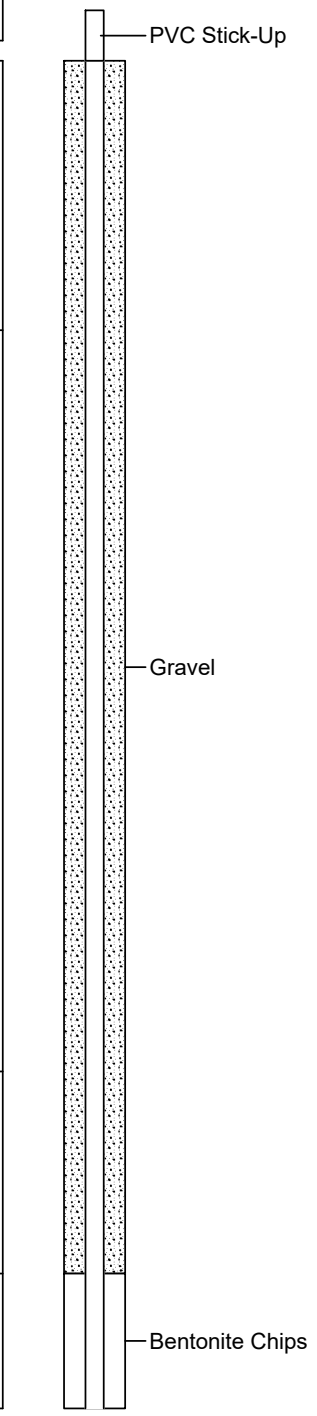
MW-307

Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 09/18/2023	Drilling Method	: Sonic Drilling
Completion Date	: 09/18/2023	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 157.70
Drilling Company	: Cascade	Logged By	: D. Martin
Driller	: Dennis Law	Transcribed By	: J. Idzenga, PG

Depth in Feet	Surf. Elev. 157.70	USCS	GRAPHIC	Munsell Color	DESCRIPTION
0	157	MLSP		10YR 4/3	Dark brown fine Sandy SILT. Some sub-rounded cobble sized Gravel. Dry. No odor/staining.
5	152	CL		10YR 6/1	Grey oxidized mottled CLAY. Wet. No odor/staining.
10	147				
15	142	GP		10YR 6/1	Grey GRAVEL. sub-angular to sub-rounded gravel clasts up to 3" in length. Highly fractured. Fine to medium sand intermixed. Slightly moist. No odor/staining.
20		GP		10YR 6/1	Gray GRAVEL. Sub-angular to sub-rounded. Crushed rock. Highly fractured. Dry. No odor/staining.



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MW-307

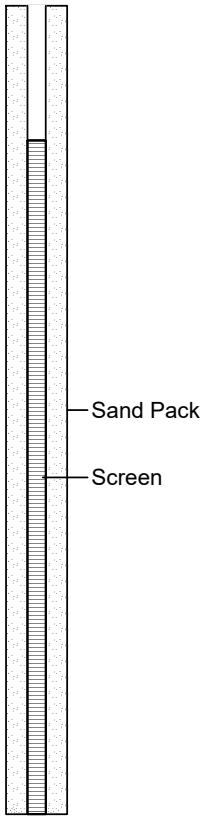
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 09/18/2023	Drilling Method	: Sonic Drilling
Completion Date	: 09/18/2023	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 157.70
Drilling Company	: Cascade	Logged By	: D. Martin
Driller	: Dennis Law	Transcribed By	: J. Idzenga, PG

Depth in Feet	Surf. Elev. 157.70	USCS	GRAPHIC	Munsell Color	DESCRIPTION
20	137	ML		10YR 4/3	Brown SILT with sub-rounded to sub-angular pebble to cobble sized Gravel. Little medium to coarse sand. Moist. No odor/staining.
25	132	ML		10YR 5/3	Pale brown SILT with sub-rounded to sub-angular pebble to cobble sized Gravel. Some fine to coarse Sand. Dry. No odor/staining.
30	127	CM		10YR 6/1	Grey SILTSTONE. Highly fractured. Striated, foliated, iron oxide staining, quartz veins 1/16" thick, and near vertical fractures. Dry. No odor/staining.
					END OF BORING
35	122				
40					

Well: MW-307
TOC: 160.71



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MW-308R

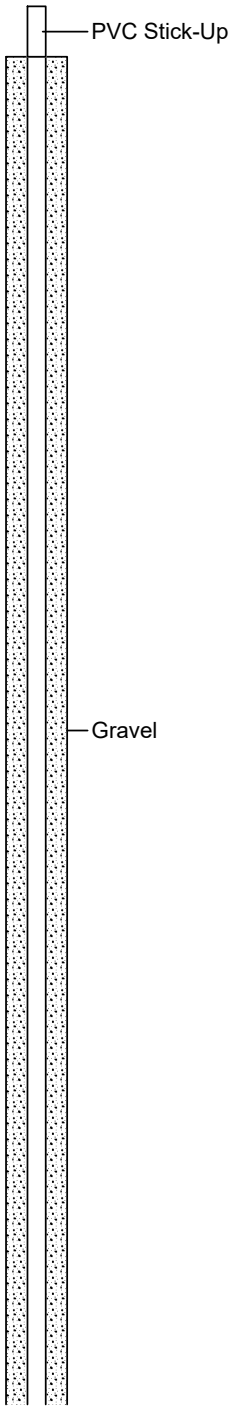
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 02/13/2024	Drilling Method	: Sonic Drilling
Completion Date	: 02/13/2024	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 155.70
Drilling Company	: Cascade	Logged By	: J. Idzenga, PG
Driller	: Oiden Gonzalez	Transcribed By	: E. Boesch Dining

Depth in Feet	Surf. Elev. 155.70	USCS	GRAPHIC	Munsell Color	DESCRIPTION
0		MLSP		10YR 4/3	Dark brown Sandy SILT. Some organics. Wet. No odor/staining.
	155	CLML		10YR 5/2	Grayish brown silty CLAY. Mottled clay. Moist. No odor/staining.
5	150	CH		10YR 5/1	Gray CLAY. Fat Clay. Moist. No odor/staining.
10	145	CH		10YR 4/1	Dark gray CLAY. Sticky and ductile. No odor/staining.
15	140	CLML		10YR 5/1	Gray Silty CLAY. Some sub-rounded Gravel. Moist to slightly moist. No odor/staining.
20					

Well: MW-308R
TOC: 158.70



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MW-308R

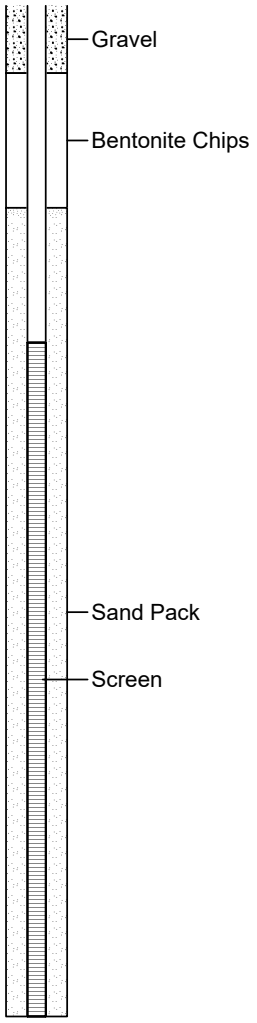
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 02/13/2024	Drilling Method	: Sonic Drilling
Completion Date	: 02/13/2024	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 155.70
Drilling Company	: Cascade	Logged By	: J. Idzenga, PG
Driller	: Oiden Gonzalez	Transcribed By	: E. Boesch Dining

Depth in Feet	Surf. Elev. 155.70	USCS	GRAPHIC	Munsell Color	DESCRIPTION
20	135	CLML		10YR 5/1	SAA. Wet at 20' and dry at 25'.
25	130	CLML		10YR 5/1	Gray Silty CLAY. Some sub-rounded Gravel. Slightly moist. No odor/staining.
		GP		10YR 7/1	Lighty Gray GRAVEL. Piece of boulder 4".
30	125	CM		10YR 5/1	Gray SILTSTONE. Iron staining visible near 34'. Fracture angles between 30° to 75°. Slickenlines visible on fracture planes. Calcium carbonate veins visible throughout. Wet. No odor/staining.
35	120				
40					

Well: MW-308R
TOC: 158.70



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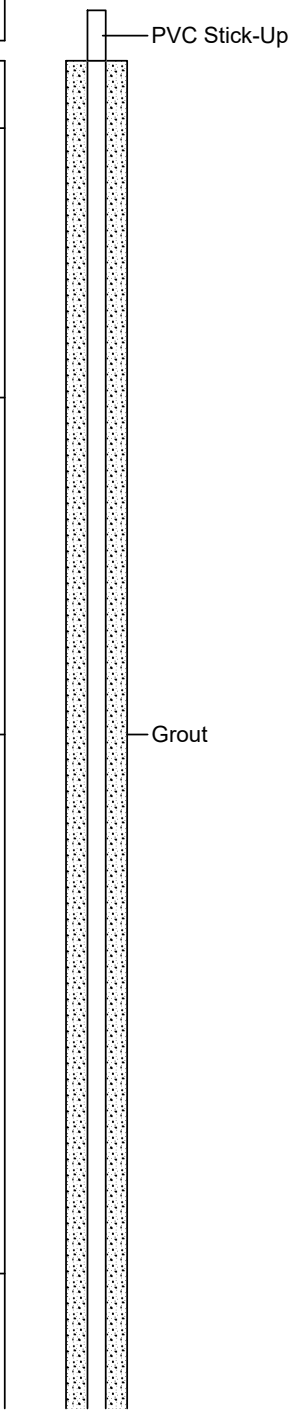
MW-309

Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 02/15/2024	Drilling Method	: Sonic Drilling
Completion Date	: 02/15/2024	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 155.50
Drilling Company	: Cascade	Logged By	: J. Idzenga, PG
Driller	: Oiden Gonzalez	Transcribed By	: J. Idzenga, PG

Depth in Feet	Surf. Elev. 155.50	USCS	GRAPHIC	Munsell Color	DESCRIPTION
0	155	ML		10YR 4/3	Brown Sandy SILT. Some Clay and organic material. Wet. No odor/staining.
		CLML		10YR 5/2	Grayish brown Silty CLAY. Slightly moist. No odor/staining.
5	150	CLML		10YR 5/1	Grayish brown Silty CLAY. Mottled clay. Moist. No odor/staining
10	145	CH		10YR 4/1	Dark gray CLAY. Fat clay. Moist. No odor/staining.
15	140				
		MLSP		10YR 4/1	Dark gray Sandy SILT. Some Clay and sub-rounded to rounded Gravel. Clasts up to 2.5". Moist. No odor/staining.
20					



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MW-309

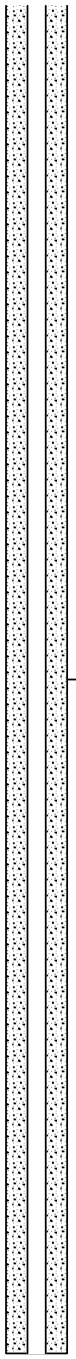
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 02/15/2024	Drilling Method	: Sonic Drilling
Completion Date	: 02/15/2024	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 155.50
Drilling Company	: Cascade	Logged By	: J. Idzenga, PG
Driller	: Oiden Gonzalez	Transcribed By	: J. Idzenga, PG

Depth in Feet	Surf. Elev. 155.50	USCS	GRAPHIC	Munsell Color	DESCRIPTION
20	135	MLSP		10YR 4/1	
25	130				
		SM		10YR 5/1	Gray Silty SAND.Some sub-rounded Gravel. Clasts up to 4". Dry. No odor/staining.
30	125	MLSP		10YR 5/1	Gray Sandy SILT. Some Clay and sub-rounded to rounded Gravel. Clasts up to 2". Slightly moist. No odor/staining.
		SM		10YR 6/1	Gray Silty SAND. Some sub-angular to sub-rounded Gravel. Dry. No odor/staining.
35	120	MLSP		10YR 5/1	Gray Sandy SILT. Some Clay and sub-angular to sub-rounded Gravel. Clasts up to 2". Slightly Moist. No odor/staining.
40		SM		10YR 4/3	Brown coarse to fine SAND. Some angular to sub-rounded Gravel. Wet. No odor/staining.

Well: MW-309
TOC: 158.53



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MW-309

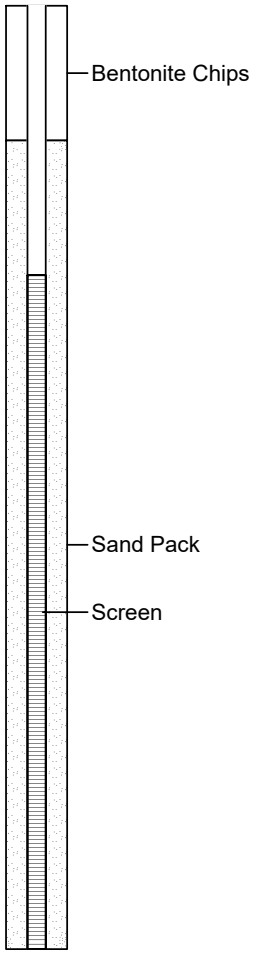
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 02/15/2024	Drilling Method	: Sonic Drilling
Completion Date	: 02/15/2024	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 155.50
Drilling Company	: Cascade	Logged By	: J. Idzenga, PG
Driller	: Oiden Gonzalez	Transcribed By	: J. Idzenga, PG

Depth in Feet	Surf. Elev. 155.50	USCS	GRAPHIC	Munsell Color	DESCRIPTION
40	115	SM		10YR 4/3	
		SM		10YR 5/2	Grayish brown Silty SAND. Some sub-angular to sub-rounded Gravel. Dry. No odor/staining.
		MLSP		10YR 7/1	
		MLSP		10YR 6/2	Light gray Silty SAND. Some sub-angular to sub-rounded Gravel. Dry. No odor/staining.
		MLSP		10YR 6/3	Light brown and Gray Silty SAND. Some sub-angular to sub-rounded Gravel. Dry. No odor/staining.
					Pale brown Silty SAND. Some sub-angular to sub-rounded Gravel. Dry. No odor/staining.
		SM		10YR 5/3	Brown fine SAND with Some sub-angular to sub-rounded Gravel. Clasts up to 3.5". Dry. No odor/staining.
45	110	MLSP		10YR 5/2	Grayish brown Silty SAND. Some sub-angular to sub-rounded Gravel. Wet. No odor/staining.
		SP		10YR 5/2	Gray coarse to fine SAND. Some sub-angular to sub-rounded Gravel. Wet. No odor/staining.
50	105	CM		10YR 5/1	Gray highly weathered SILTSTONE. No pieces over 4". Abundent iron staining, slickenlines, and fratures. Wet. No odor/staining.
55	100				END OF BORING
60					

Well: MW-309
TOC: 158.53



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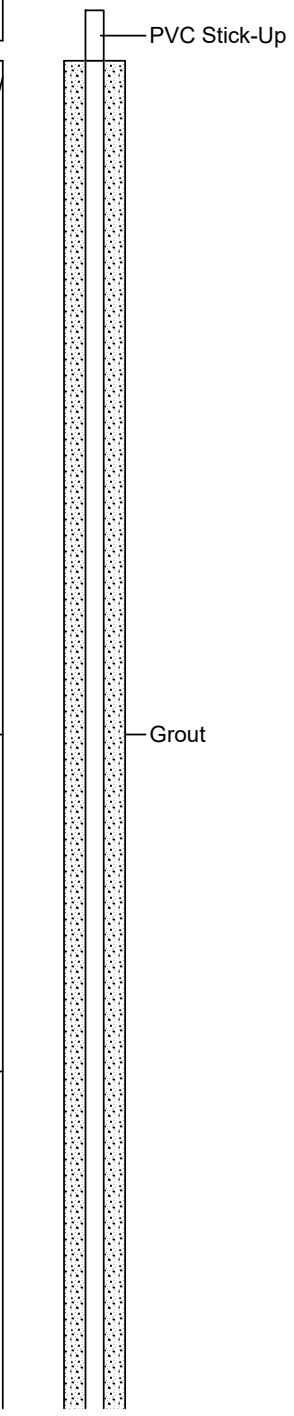
MW-310

Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 02/14/2024	Drilling Method	: Sonic Drilling
Completion Date	: 02/14/2024	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 154.50
Drilling Company	: Cascade	Logged By	: J. Idzenga, PG
Driller	: Oiden Gonzalez	Transcribed By	: J. Idzenga, PG

Depth in Feet	Surf. Elev. 154.50	USCS	GRAPHIC	Munsell Color	DESCRIPTION
0	154	SM		10YR 5/2	Grayish brown silty SAND. Some Organics. Slightly moist. No odor/staining.
					Grayish brown Silty CLAY. Slightly moist. No odor/staining.
5	149	CLML		10YR 5/2	
10	144	CH		10YR 4/1	Dark gray CLAY. Fat Clay. Moist. No odor/staining.
15	139	MLSP		10YR 5/1	Gray Sandy SILT with Some Clay. Some sub-rounded Gravel. Wet. Saturated at 20'. No odor/staining.
20					



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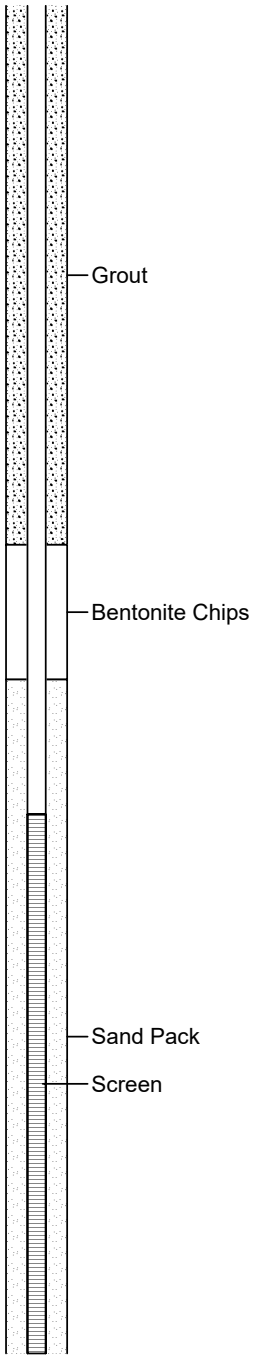
MW-310

Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 02/14/2024	Drilling Method	: Sonic Drilling
Completion Date	: 02/14/2024	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 154.50
Drilling Company	: Cascade	Logged By	: J. Idzenga, PG
Driller	: Oiden Gonzalez	Transcribed By	: J. Idzenga, PG

Depth in Feet	Surf. Elev. 154.50	USCS	GRAPHIC	Munsell Color	DESCRIPTION
20	134	MLSP		10YR 5/1	
		SM		10YR 5/1	Gray Silty SAND. Some sub-rounded to sub-angular Gravel. Well graded. Gravel clasts up to 3". Dry. No odor/staining.
25	129	CLML		10YR 5/1	Gray Gravelly Silty CLAY. Pebble to Cobble sized sub-rounded gravel. Well graded. Dense. Dry. No odor/staining.
30	124	MLSP		10YR 5/2	Sandy SILT. Some Clay and sub-rounded Gravel. Slightly moist. No odor/staining.
35	119	MLSP		10YR 6/1	Gray Silty SAND. Some sub-angular to sub-rounded Gravel. Dry No odor/staining.
		MLSP		10YR 5/1	Gray Silty SAND. Some Clay. Some sub-rounded Gravel with clasts up to 3". Dry. No odor/staining.
40		GM		10YR 5/1	Gray GREYWACKE. Iron staining visible from 38'-40'. Low to medium fracture angles. Slickenlines visible on fracture planes. Thick calcium carbonate veins up to 1" thick. Wet. No odor/staining.



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MW-310

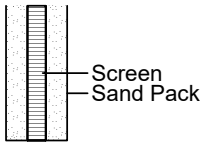
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 02/14/2024	Drilling Method	: Sonic Drilling
Completion Date	: 02/14/2024	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 154.50
Drilling Company	: Cascade	Logged By	: J. Idzenga, PG
Driller	: Oiden Gonzalez	Transcribed By	: J. Idzenga, PG

Depth in Feet	Surf. Elev. 154.50	USCS	GRAPHIC	Munsell Color	DESCRIPTION
40	114	GM		10YR 5/1	
					END OF BORING
45	109				
50	104				
55	99				
60					

Well: MW-310
TOC: 157.49



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MW-311

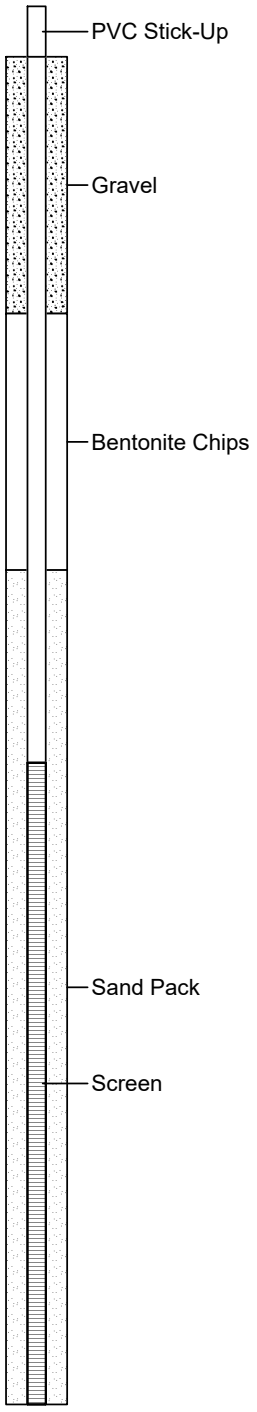
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 09/20/2023	Drilling Method	: Sonic Drilling
Completion Date	: 09/20/2023	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 156.60
Drilling Company	: Cascade	Logged By	: D. Martin
Driller	: Dennis Law	Transcribed By	: J. Idzenga, PG

Depth in Feet	Surf. Elev. 156.60	USCS	GRAPHIC	Munsell Color	DESCRIPTION
0	156	ML		10YR 5/2	Grayish brown SILT with some sub-angular to sub-rounded pebble to cobble sized Gravel. Clasts up to 4" in length. Dry. No odor/staining.
5	151	CL		10YR 5/1	Gray CLAY. Moist. No odor/staining.
10	146	CL		10YR 5/1	Gray CLAY. Wet. No odor/staining.
		ML		10YR 5/1	Gray SILT with some sub-angular to sub-rounded pebble to cobble sized Gravel. Clasts up to 5" in length. Dry. No odor/staining.
15	141	ML		10YR 5/1	Dark Gray SILT with some sub-angular to sub-rounded crushed Gravel. Dry. No odor/staining.
		CM		10YR 7/1	Light gray SILTSTONE. Crushed/powdered. No clean fractures. Dry. No odor/staining.
		CM		10YR 6/1	Gray SILTSTONE. Mostly crushed up with some pebble to cobble sized pieces. No clean fractures. Dry. No odor/staining.
20		CM		10YR 6/1	Gray SILTSTONE. Sub-angular to sub-rounded Gravel. Clasts up to 2" in length. Dry. No odor/staining.

Well: MW-311
TOC: 159.60



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MW-312R

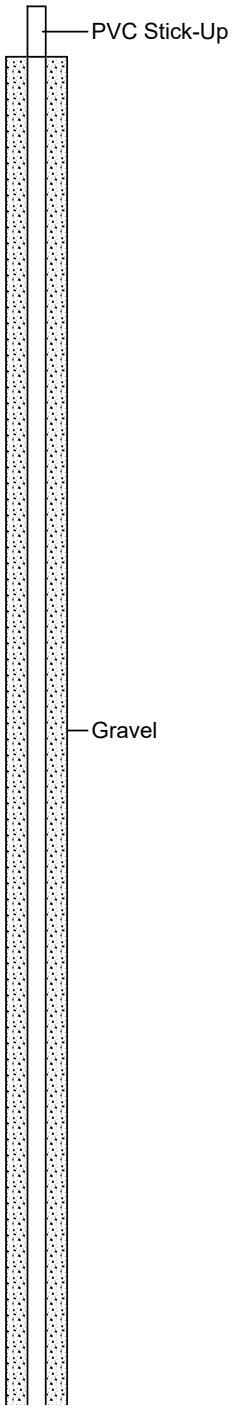
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 02/20/2024	Drilling Method	: Sonic Drilling
Completion Date	: 02/20/2024	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 154.60
Drilling Company	: Cascade	Logged By	: N. Podmaska
Driller	: Oiden Gonzalez	Transcribed By	: J. Idzenga, PG

Depth in Feet	Surf. Elev. 154.60	USCS	GRAPHIC	Munsell Color	DESCRIPTION
0	154	CLML		10YR 5/2	Grayish brown Silty CLAY. Some Organic material including roots and stems. Slightly moist. No odor/staining.
					Grayish brown Silty CLAY. Slightly moist. No odor/staining.
		CLML		10YR 4/3	
5	149				Grayish brown Silty CLAY. Some coarse Sand and sub-rounded pebble sized Gravel intermixed within the lean clay. Slightly moist. No odor/staining.
		CLML		10YR 4/3	
10	144				Grayish brown Silty CLAY. Some coarse Sand and sub-rounded pebble sized Gravel. Moist to saturated. No odor/staining.
		CLML		10YR 4/1	
15	139				Compact grayish brown Silty fine to coarse SAND with some sub-angular to sub-rounded pebble sized Gravel. Dry. No odor/staining.
		SPML		10YR 5/1	
20					

Well: MW-312R
TOC: 157.60



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MW-312R

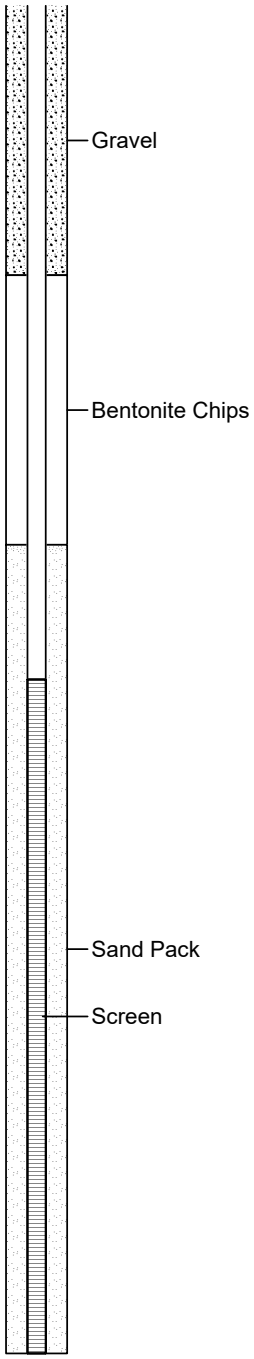
Former DOW AFB Aviation Fuel Filter/Drum/ TCE Disposal Area Phase III RI
Bangor, ME

D01ME0004 02

Start Date	: 02/20/2024	Drilling Method	: Sonic Drilling
Completion Date	: 02/20/2024	Sampling Method	: Discrete
Well Diameter	: 2 in	Surface Elevation	: 154.60
Drilling Company	: Cascade	Logged By	: N. Podmaska
Driller	: Oiden Gonzalez	Transcribed By	: J. Idzenga, PG

Depth in Feet	Surf. Elev. 154.60	USCS	GRAPHIC	Munsell Color	DESCRIPTION
20	134	GP		10YR 6/1	Pulverized gray sub-angular to sub-rounded GRAVEL with silty fine Sand. Clasts up to 3" in length. Dry. No odor/staining.
		CLML		10YR 5/2	Grayish brown Silty CLAY. Lean clay. Some coarse grained Sand and trace sub-angular to sub-rounded gravel. Dry. No odor/staining.
25	129	SM		10YR 5/2	Brownish gray silty fine SAND. Some angular to sub-angular pebble sized Gravel. Dry. No odor/staining.
		SM		10YR 6/1	Gray fine SAND with pulverized rock fragments 1" to 3" in length. Trace amount of iron staining observed on larger clasts. Dry. No odor/staining.
30	124	SM		10YR 5/2	Grayish brown silty fine to coarse SAND. Moist. No odor/staining.
		GP		10YR 6/1	Gray sub-angular to sub-rounded GRAVEL. Clasts 1"-2" in length. Some coarse Sand. Wet. No odor/staining.
35	119	SM		10YR 7/1	Light gray very fine SAND. Some rock dust and sub-angular Gravel with clasts up to 2" in length. Wet. No odor/staining.
		CM		10YR 6/1	Gray fine grained SILTSTONE. Sub-angular clasts up to 2" in length. Iron staining observed. Fracture angles range from 70%-80%. Thin quartz veins visible in the clasts. Wet. No odor/staining
40					

Well: MW-312R
TOC: 157.60



Attachment C-3

Well Development Logs

MONITORING WELL DEVELOPMENT LOG FORM

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Site Name: Dow FUDS

Location ID: MW-3

Site Location: Bangor, ME **Date:** 10/25/2023

Project Number: R2022057.000.014 **Method:** Surge Block + Whale Pump

Personnel: NVP/EBD

Initial		Final	
Time:	14:40	**Time:**	17:15
Depth to Water:	5.41'	**Depth to Water:**	7.18'
Total Depth:	13.65'	**Total Depth:**	13.65'
Water Column:	8.24'	**Water Column:**	6.47'

Total Purge Volume: 14.5 gallons

Notes/Observations: Depth to water measured from top of steel. 0.81' to PVC from top of steel.

SURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
2-4'	14:40	5.41	0.1	Over range	0.0
2-4'	14:45	5.45	0.1	Over range	0.5
2-4'	14:50	5.7	0.1	Over range	1.0
2-4'	14:55	5.99	0.1	Over range	1.5
4-6'	15:00	6.17	0.1	Over range	2.0
4-6'	15:05	6.26	0.1	Over range	2.5
4-6'	15:10	6.39	0.1	Over range	3.0
6-8'	15:15	6.45	0.1	Over range	3.5
6-8'	15:20	6.56	0.1	Over range	4.0
6-8'	15:25	7.7	0.1	Over range	4.5
8-10'	15:30	7.79	0.1	Over range	5.0
8-10'	15:35	7.87	0.1	Over range	5.5
8-10'	15:40	7.95	0.1	Over range	6.0

MONITORING WELL DEVELOPMENT LOG FORM

PURGE DATA **Well** MW-3 **Page** 2 of 2

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
4-14'	16:25	5.84	0.17	13.34	6.88	301	98.4	91.9	0.35	0.9
4-14'	16:30	6.3	0.17	13.26	6.76	296	128	110.2	0.18	1.7
4-14'	16:35	6.58	0.17	13.27	6.72	298	107	116.5	0.14	2.4
4-14'	16:40	6.71	0.17	13.37	6.7	300	90.0	120.2	0.13	3.0
4-14'	16:45	6.86	0.17	13.38	6.69	304	70.5	120.3	0.11	3.8
4-14'	16:50	6.94	0.17	13.39	6.7	306	56.1	119.0	0.11	4.5
4-14'	16:55	7.00	0.17	13.38	6.71	308	42.6	116.5	0.10	5.0
4-14'	17:00	7.08	0.175	13.37	6.73	312	31.00	113.5	0.10	5.8
4-14'	17:05	7.11	0.175	13.38	6.72	314	27.4	112.0	0.10	6.6
4-14'	17:10	7.14	0.175	13.38	6.72	315	23.1	111.4	0.10	7.4
4-14'	17:15	7.18	0.175	13.38	6.73	317	17.6	111.2	0.10	8.5

MONITORING WELL DEVELOPMENT LOG FORM

Mabbett®
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Site Name: Dow FUDS

Location ID: MW-5

Site Location: Bangor, ME **Date:** 10/24/2023

Project Number: R2022057.000.014 **Method:** Surge Block + Whale Pump

Personnel: NVP

Initial		Final	
Time:	14:30	**Time:**	16:05
Depth to Water:	3.71'	**Depth to Water:**	4.39'
Total Depth:	15.25'	**Total Depth:**	15.25'
Water Column:	11.54'	**Water Column:**	10.86'

Total Purge Volume: 9 gallons

Notes/Observations:

SURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
5-7'	14:30	4.09	0.05	over range	0.25
5-7'	14:35	4.10	0.05	over range	0.50
5-7'	14:40	4.12	0.05	688	0.75
5-7'	14:45	4.15	0.05	602	1.00
7-9'	14:50	4.27	0.05	over range	1.25
7-9'	14:55	4.40	0.05	over range	1.50
7-9'	15:00	4.29	0.05	over range	1.75
7-9'	15:05	4.38	0.05	over range	2.00
9-11'	15:10	4.11	0.05	over range	2.25
9-11'	15:15	4.42	0.05	over range	2.50
9-11'	15:20	4.49	0.05	over range	2.75
9-11'	15:25	4.53	0.05	over range	3.00
11-13'	15:30	4.28	0.05	over range	3.25
11-13'	15:35	4.39	0.05	over range	3.50

MONITORING WELL DEVELOPMENT LOG FORM

SURGE DATA **Well** MW-5 **Page** 2 of 2

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
11-13'	15:40	4.12	0.05	over range	3.75
11-13'	15:45	4.27	0.05	over range	4.00
13-15'	15:50	4.06	0.05	over range	4.25
13-15'	15:55	4.18	0.05	over range	4.50
13-15'	16:00	4.31	0.05	over range	4.75
13-15'	16:05	4.39	0.05	over range	5.00

PURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
5-15'	8:10	3.68	0.075	8.99	6.78	440	292	110.9	--	0.00
5-15'	8:15	3.88	0.075	10.89	6.64	206	349	121.4	0.44	0.375
5-15'	8:20	3.81	0.05	11.29	6.61	205	187	125.4	0.50	0.625
5-15'	8:25	4.21	0.025	11.96	6.52	206	135	131.8	0.05	0.75
5-15'	8:30	4.68	0.20	11.32	6.55	205	66.6	131.3	0.21	1.75
5-15'	8:35	4.01	0.10	11.23	6.60	205	30.1	128.4	0.33	2.25
5-15'	8:40	3.88	0.05	11.73	6.60	205	23.0	127.2	0.29	2.50
5-15'	8:45	3.83	0.05	11.78	6.60	206	18.5	126.4	0.42	2.75
5-15'	8:50	3.79	0.05	11.71	6.60	206	15.1	125.8	0.63	3.00
5-15'	8:55	3.78	0.025	11.58	6.61	206	14.6	125.2	0.36	3.13
5-15'	9:00	3.92	0.025	11.36	6.61	206	9.61	124.7	0.12	3.25
5-15'	9:05	3.84	0.05	11.29	6.60	205	9.78	124.5	0.38	3.50
5-15'	9:10	3.84	0.05	11.18	6.60	206	4.83	124.2	0.38	3.75
5-15'	9:15	3.84	0.05	11.12	6.60	206	4.23	123.8	0.38	4.00

MONITORING WELL DEVELOPMENT LOG FORM

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Site Name: Dow FUDS

Location ID: MW-8

Site Location: Bangor, ME

Date: 10/24/2023

Project Number: R2022057.000.014

Method: Surge Block + Whale Pump

Personnel: NVP/EBD

Initial		Final	
Time:	10:30	**Time:**	12:25
Depth to Water:	5.62'	**Depth to Water:**	6.44'
Total Depth:	14.91'	**Total Depth:**	14.95'
Water Column:	9.29'	**Water Column:**	8.51'

Total Purge Volume: 8 gallons

Notes/Observations:

SURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
5-7'	10:55	5.31	0.05	over range	0.00
5-7'	11:00	5.58	0.05	over range	0.25
5-7'	11:05	5.69	0.05	over range	0.50
5-7'	11:10	5.79	0.05	over range	0.75
7-9'	11:12	5.80	0.05	over range	1.00
7-9'	11:17	5.85	0.05	over range	1.25
7-9'	11:23	5.88	0.05	over range	1.50
7-9'	11:28	5.96	0.05	over range	1.75
9-11'	11:30	5.71	0.05	over range	2.00
9-11'	11:35	5.96	0.05	over range	2.25
9-11'	11:40	6.01	0.05	over range	2.50
9-11'	11:45	6.01	0.05	over range	2.75
11-13'	11:50	5.86	0.05	over range	3.00
11-13'	11:55	6.25	0.05	over range	3.25

MONITORING WELL DEVELOPMENT LOG FORM

SURGE DATA **Well** MW-8 **Page** 2 of 2

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
11-13'	12:00	6.34	0.05	over range	3.5
11-13'	12:15	6.39	0.05	over range	3.75
13-15'	12:10	5.78	0.05	over range	4.00
13-15'	12:15	6.22	0.05	over range	4.25
13-15'	12:20	6.35	0.05	over range	4.50
13-15'	12:25	6.44	0.05	over range	4.75

PURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
5-15'	15:30	5.27	0.125	12.49	7.08	200	197	96.4	0.36	0.00
5-15'	15:35	5.90	0.125	13.98	6.33	441	63.8	92.3	0.45	0.625
5-15'	15:40	5.96	0.075	14.20	6.33	442	41.3	88.5	0.22	1.000
5-15'	15:45	5.84	0.075	13.86	6.35	442	35.2	84.8	0.34	1.375
5-15'	15:50	5.80	0.03	13.73	6.37	442	30.9	84.1	0.14	1.50
5-15'	15:55	6.17	0.10	14.51	6.34	438	16.9	75.2	0.90	2.00
5-15'	16:00	6.38	0.1	14.33	6.36	434	10.5	75.4	0.15	2.50
5-15'	16:05	6.15	0.05	13.89	6.34	439	9.10	75.4	0.09	2.75
5-15'	16:10	6.05	0.075	13.48	6.33	443	7.90	75.4	0.17	3.125
5-15'	16:15	5.99	0.075	13.42	6.33	444	6.25	74.0	0.14	3.375

MONITORING WELL DEVELOPMENT LOG FORM

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Site Name: Dow FUDS

Location ID: MW-20

Site Location: Bangor, ME **Date:** 10/25/2023

Project Number: R2022057.000.014 **Method:** Surge Block + Whale Pump

Personnel: NVP

Initial		Final	
Time:	10:45	**Time:**	14:15
Depth to Water:	4.78	**Depth to Water:**	8.43'
Total Depth:	15.12'	**Total Depth:**	15.12'
Water Column:	10.34'	**Water Column:**	6.69'

Total Purge Volume: 15 gallons

Notes/Observations:

SURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
5-7'	10:50	4.99	0.065	over range	0.000
5-7'	10:55	5.78	0.065	over range	0.325
5-7'	11:00	6.00	0.065	over range	0.650
5-7'	11:05	top of block	0.065	over range	0.975
7-9'	11:10	6.39	0.065	over range	1.300
7-9'	11:15	6.47	0.065	over range	1.625
7-9'	11:20	6.53	0.065	over range	1.950
9-11'	11:25	6.69	0.065	over range	2.275
9-11'	11:30	6.96	0.065	over range	2.600
9-11'	11:35	7.2	0.065	over range	2.925
11-13'	11:40	7.32	0.065	over range	3.250
11-13'	11:45	7.44	0.065	over range	3.575
11-13'	11:50	7.58	0.065	over range	3.900
13-15'	11:55	7.75	0.065	over range	4.225

MONITORING WELL DEVELOPMENT LOG FORM

SURGE DATA **Well** MW-20 **Page** 2 of 2

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
13-15'	12:00	8.01	0.065	over range	4.550
13-15'	12:05	8.16	0.065	over range	4.875
13-15'	12:10	8.31	0.065	over range	5.200

PURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
5-15'	13:10	5.38	0.125	13.65	7.23	554	over range	51.9	0.21	0.00
5-15'	13:15	5.80	0.125	13.56	7.08	542	over range	54.3	0.12	0.625
5-15'	13:20	6.29	0.125	13.50	7.00	536	over range	56.2	0.08	1.250
5-15'	13:25	6.88	0.125	13.49	6.98	530	97.6	64.8	0.06	1.875
5-15'	13:30	6.92	0.125	13.46	6.95	525	38.2	71.2	0.05	2.500
5-15'	13:35	7.30	0.125	13.44	6.91	520	29.0	78.0	0.05	3.125
5-15'	13:40	7.61	0.125	13.43	6.93	528	25.3	80.5	0.04	3.750
5-15'	13:45	7.84	0.125	13.34	6.94	531	22.8	80.7	0.04	4.375
5-15'	13:50	7.95	0.125	13.33	6.95	537	21.0	80.9	0.04	5.0
5-15'	13:55	8.09	0.2	13.23	6.96	519	17.3	80.2	0.06	6.0
5-15'	14:00	8.18	0.2	13.19	6.96	549	16.5	79.2	0.06	7.0
5-15'	14:05	8.29	0.2	13.23	6.97	538	12.2	78.4	0.06	8.0
5-15'	14:10	8.32	0.2	13.19	6.97	545	9.93	77.5	0.06	9.0
5-15'	14:15	8.43	0.2	13.19	6.97	544	9.84	77.3	0.05	10.0

MONITORING WELL DEVELOPMENT LOG FORM

Mabbett®
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Site Name: Dow FUDS

Location ID: MW-23

Site Location: Bangor, ME **Date:** 10/24/2023

Project Number: R2022057.000.014 **Method:** Surge Block + Whale Pump

Personnel: NVP/EBD

Initial		Final	
Time:		**Time:**	17:50
Depth to Water:	5.63'	**Depth to Water:**	9.98
Total Depth:	15.10'	**Total Depth:**	15.10'
Water Column:	9.47'	**Water Column:**	5.12'

Total Purge Volume: 14.5 gallons

Notes/Observations:

SURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
5-7'	16:30	5.69	0.0375	over range	0.00
5-7'	16:35	5.73	0.0375	over range	0.13
5-7'	16:40	top of block	0.0375	over range	0.25
7-9'	16:50	5.98	0.02	over range	0.35
7-9'	16:55	6.13	0.02	over range	0.40
7-9'	17:00	6.49	0.02	over range	0.50
7-9'	17:05	6.55	0.05	over range	0.75
9-11'	17:10	6.46	0.05	over range	1.00
9-11'	17:15	7.22	0.05	over range	1.25
9-11'	17:20	7.70	0.05	over range	1.50
11-13'	17:25	8.08	0.05	over range	1.75
11-13'	17:30	8.55	0.05	over range	2.00
11-13'	17:35	8.84	0.05	over range	2.25
13-15'	17:40	9.74	0.05	over range	2.50

MONITORING WELL DEVELOPMENT LOG FORM

SURGE DATA **Well** MW-23 **Page** 2 of 3

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
13-15'	17:45	9.90	0.05	over range	2.75
13-15'	17:50	9.98	0.05	over range	3.00

PURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
5-15'	9:30	5.99	0.09	12.84	6.67	556	119	124.5	0.25	0.0
5-15'	9:35	7.79	0.09	12.96	6.68	496	64.4	124.3	0.04	0.5
5-15'	9:40	8.25	0.09	13.19	6.64	419	40.6	128.9	0.03	1.0
5-15'	9:45	9.01	0.09	13.21	6.64	383	48.2	129.8	0.03	1.5
5-15'	9:50	9.70	0.09	13.18	6.62	361	51.0	134.1	0.02	2.0
5-15'	9:55	10.29	0.09	13.18	6.63	369	52.8	136.9	0.02	2.5
5-15'	10:00	10.33	0.09	13.31	6.73	380	47.4	133.9	0.02	3.0
5-15'	10:05	10.31	0.09	13.34	6.75	414	36.5	134.2	0.02	3.5
5-15'	10:10	10.30	0.09	12.79	6.71	537	33.2	122.1	0.02	4.0
5-15'	10:15	10.51	0.09	12.67	6.68	628	23.8	117.5	0.02	4.5
5-15'	10:20	10.75	0.09	12.81	6.72	649	22.6	88.0	0.02	5.0
5-15'	10:25	11.00	0.09	12.87	6.72	634	20.1	89.1	0.02	5.5
5-15'	pause									
5-15'	10:35	10.91	0.07	12.96	6.73	667	30.6	67.3	0.01	5.9
5-15'	10:40	11.07	0.07	13.06	6.73	683	26.2	55.1	0.01	6.3
5-15'	10:45	11.20	0.07	13.08	6.72	669	24.2	46.4	0.01	6.7
5-15'	10:50	11.38	0.07	13.08	6.72	653	23.8	37.5	0.01	7.1

MONITORING WELL DEVELOPMENT LOG FORM

PURGE DATA **Well** MW-23 **Page** 3 of 3

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°F)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
5-15'	10:55	11.54	0.07	12.96	6.72	632	25.1	28.7	0.01	7.5
5-15'	11:00	11.69	0.07	12.97	6.72	612	23.2	19.9	0.01	7.9
5-15'	11:05	11.85	0.07	12.98	6.72	576	22.4	11.0	0.01	8.3
5-15'	11:10	12.01	0.07	12.95	6.73	561	21.1	2.2	0.01	8.7
5-15'	11:15	12.16	0.07	12.94	6.73	548	19.1	-6.6	0.01	9.1
5-15'	11:20	12.32	0.07	12.96	6.72	524	18.7	-15.5	0.01	9.5
5-15'	11:25	12.47	0.07	12.95	6.73	501	17.1	-24.3	0.01	9.9
5-15'	11:30	12.63	0.07	12.96	6.72	485	15.7	-33.1	0.01	10.3
5-15'	11:35	12.79	0.07	12.93	6.72	468	14.3	-41.9	0.01	10.7
5-15'	11:40	12.94	0.07	12.94	6.72	452	13.4	-50.8	0.01	11.1
5-15'	11:45	13.10	0.07	12.94	6.72	457	10.0	-59.6	0.01	11.5

MONITORING WELL DEVELOPMENT LOG FORM

Mabbett®
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Site Name: Dow FUDS

Location ID: MW-301

Site Location: Bangor, ME **Date:** 9/22/2023

Project Number: R2022057.000.014 **Method:** Surge Block + Whale Pump

Personnel: MLB

Initial		Final	
Time:	9:40	**Time:**	14:15
Depth to Water:	3.77'	**Depth to Water:**	3.80'
Total Depth:	42.78'	**Total Depth:**	42.8'
Water Column:	39.01'	**Water Column:**	39.00'

Total Purge Volume: 46.05 gallons

Notes/Observations: Install dual surge block assembly to well bottom -> DTW = 3.74'

Ground surface to top of PVC = 2.33'

Clear water to over range turbidity for first 0.25-0.5 gallons pumped

SURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
37.5-40.0'	10:00	5.00	0.17	Over range	0.75
37.5-40.0'	10:05	4.91	0.23	Over range	2.75
37.5-40.0'	10:10	6.89	0.60	Over range	4.5
37.5-40.0'	10:15	6.96	0.60	Over range	7.2
37.5-40.0'	10:20	7.11	0.60	Over range	9.0
37.5-40.0'	10:25	7.09	0.60	Over range	10
Based on results at MW-303, attempting to limit 10 gallon surge volume per 2.5' screen interval Moved float valve intake up 2.5' to target 5-7.5' well screen interval					
35.0-37.5'	10:30	5.95	0.60	Over range	0.25
35.0-37.5'	10:35	6.48	0.35	Over range	3.5
35.0-37.5'	10:40	6.27	0.25	Over range	5.0
35.0-37.5'	10:45	5.78	0.35	Over range	6.5
35.0-37.5'	10:50	5.95	0.35	931	8.0
35.0-37.5'	10:55	6.03	0.47	803	9.5
35.0-37.5'	11:00	6.24	0.40	669	11.75

MONITORING WELL DEVELOPMENT LOG FORM

SURGE DATA **Well** MW-301 **Page** 2 of 3

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
Stop at 11.75 gallons, move up 2.5' to 2.5-5' of screen interval. Start pump at 11:03					
32.5-5.0'	11:05	6.29	0.65	Over range	0.5
32.5-5.0'	11:10	6.31	0.33	Over range	2.5
32.5-5.0'	11:15	6.09	0.45	Over range	4.8
32.5-5.0'	11:20	5.81	0.41	Over range	6.8
32.5-5.0'	11:25	6.09	0.42	Over range	8.8
32.5-5.0'	11:30	6.19	0.41	Over range	10.8
Stop at 10.8 gallons, move up surge block 2.5' to tagret top 0-2.5' of screen interval. Start pump at 11:35					
30-32.5'	11:37	6.15	0.50	Over range	0.75
30-32.5'	11:40	6.37	0.50	Over range	1.75
30-32.5'	11:45	6.42	0.50	Over range	5.0
30-32.5'	11:50	6.54	0.50	Over range	7.25
30-32.5'	11:55	6.47	0.50	Over range	10.0
Surge at depth (bottom) for 5 gallons to remove sediments at depth until hard well cap encountered Install and program trasnducers, Set whale pump intake to center of screen interval, start at 12:36					

PURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°F)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
30-40'	12:38	5.85	0.40	10.35	7.50	238	Over range	-76.0	0.12	
30-40'	12:42	6.05	0.35	10.29	7.25	234	Over range	-87.9	0.11	1.40
30-40'	12:47	6.18	0.35	10.24	7.18	231	Over range	-93.4	0.11	3.50
30-40'	12:50	6.22	0.36	10.30	7.15	230	846	-92.5	0.11	4.90
30-40'	12:55	6.26	0.36	10.29	7.13	231	481	-91.0	0.11	6.65
30-40'	13:00	6.30	0.36	10.29	7.10	229	363	-90.8	0.11	7.73
30-40'	13:05	6.30	0.36	10.34	7.08	228	235	-90.5	0.11	9.53
30-40'	13:10	6.30	0.42	10.33	7.06	227	154	-89.4	0.13	11.33
30-40'	13:15	6.32	0.39	10.36	7.05	228	144	-88.6	0.12	13.13
30-40'	13:20	6.31	0.37	10.33	7.04	228	112	-88.2	0.12	15.23
30-40'	13:25	6.32	0.38	10.31	7.03	227	93.5	-87.9	0.12	17.18
30-40'	13:30	6.33	0.34	10.28	7.03	226	82.6	-85.7	0.11	19.03

MONITORING WELL DEVELOPMENT LOG FORM

PURGE DATA **Well** MW-301 **Page** 3 of 3

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°F)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
30-40'	13:35	6.34	0.39	10.31	7.02	227	61.3	-83.2	0.12	20.93
30-40'	13:40	6.34	0.39	10.29	7.03	227	34.6	-82.0	0.12	22.63
30-40'	13:45	6.34	0.39	10.29	7.02	227	32.0	-81.6	0.12	24.58
30-40'	13:50	6.34	0.38	10.32	7.04	226	28.1	-81.7	0.12	26.53
Stop pumping with stabilization of water quality parameters and 3 rounds less than 50 NTU										
Based on relatively low specific capacity, additional round of dual surge block										
and pumping for stability during next mobilization.										

MONITORING WELL DEVELOPMENT LOG FORM

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Site Name: Dow FUDS

Location ID: MW-302

Site Location: Bangor, ME

Date: 10/23/2023

Project Number: R2022057.000.014

Method: Surge Block + Whale Pump

Personnel: NVP, EBD

Initial		Final	
Time:	8:50	**Time:**	11:45
Depth to Water:	2.08'	**Depth to Water:**	4.34'
Total Depth:	28.51'	**Total Depth:**	28.51'
Water Column:	26.43'	**Water Column:**	24.17'

Total Purge Volume: 81.25 gallons

Notes/Observations:

SURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
19-22'	9:05	2.08	0.25	Over range	0.00
19-22'	9:10	3.04	0.25	Over range	1.25
19-22'	9:15	3.47	0.25	Over range	2.50
19-22'	9:20	3.48	0.25	Over range	3.75
22-25'	9:25	2.92	0.25	Over range	5.00
22-25'	9:30	3.25	0.25	Over range	6.25
22-25'	9:35	3.30	0.25	Over range	7.50
25-28'	9:40	3.62	0.25	Over range	8.75
25-28'	9:45	4.03	0.25	Over range	10.00
25-28'	9:50	4.32	0.25	Over range	11.25

MONITORING WELL DEVELOPMENT LOG FORM

PURGE DATA **Well** MW-302 **Page** 2 of 3

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
19-29'	10:50	2.95	0.5	12.55	7.55	581	282	64.3	0.57	0.0
19-29'	10:55	4.09	0.5	12.46	7.82	588	167	-79.2	0.25	2.5
19-29'	11:00	4.16	0.5	12.43	7.84	585	129	-86.6	0.24	5.0
19-29'	11:05	4.19	0.5	12.45	7.87	580	66.9	-96.7	0.24	7.5
19-29'	11:10	4.23	0.5	12.52	7.87	576	39.0	-102.4	0.23	10.0
19-29'	11:15	4.25	0.5	12.46	7.87	574	24.6	-106.4	0.23	12.5
19-29'	11:20	4.28	0.5	12.48	7.87	572	17.0	-108.8	0.23	15.0
19-29'	11:25	4.3	0.5	12.47	7.88	573	11.7	-111.3	0.23	17.5
19-29'	11:30	4.32	0.5	12.47	7.88	573	8.64	-113.2	0.22	20.0
19-29'	11:35	4.34	0.5	12.47	7.85	571	8.62	-115.6	0.22	22.5
19-29'	11:40	4.34	0.5	12.50	7.84	573	6.80	-117.3	0.22	25.0
19-29'	11:45	4.34	0.5	12.45	7.82	576	5.36	-118.1	0.22	27.5

MONITORING WELL DEVELOPMENT LOG FORM

PURGE DATA **Well** MW-302 **Page** 3 of 3

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
19-29'	11:30	2.56	0.5				918			0.0
19-29'	11:35	3.47	0.5				770			2.5
19-29'	11:40	3.34	0.5				624			5.0
19-29'	11:45	3.18	0.5				501			7.5
19-29'	11:50	3.00	0.5				387			10.0
19-29'	11:55	2.92	0.5	14.22	7.82	575	294	-57.6		12.5
19-29'	12:00	2.71	0.5	14.97	7.80	576	209	-63.5		15.0
19-29'	12:05	2.60	0.5	13.03	7.88	584	142	-40.2		17.5
19-29'	12:10	3.28	0.5	13.63	7.87	558	87.3	-67.3		20.0
19-29'	12:15	3.26	0.5	13.80	7.84	582	47.5	-73.2		22.5
19-29'	12:20	3.20	0.5	13.88	7.82	590	17.3	-74.4		25.0
19-29'	12:25	3.19	0.5	13.99	7.82	592	11.2	-76.1		27.5
19-29'	12:30	3.18	0.5	14.03	7.83	591	8.19	-78.8		30.0
19-29'	12:35	2.70	0.5				7.45			32.5
19-29'	12:40	2.62	0.5				6.89			35.0
19-29'	12:45	2.58	0.5				6.04			37.5
19-29'	12:50	2.57	0.5				5.67			40.0
19-29'	12:55	2.57	0.5				5.21			42.5

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Site Name: Dow FUDS

Location ID: MW-303

Site Location: Bangor, ME

Date: 9/21/2023-9/22/2023

Project Number: R2022057.000.014

Method: Surge Block + HydroLift

Personnel: MLB

Whale Pump for Stability

Initial **Time:** Day 1: 7:00, Day 2: 7:00

Final **Time:** Day 1: 17:30, Day 2: 14:15

Depth to Water: Day 1: 3.41', Day 2: 3.57'

Depth to Water: Day 1: 3.53', Day 2: 3.71'

Total Depth: Day 1: 21.81', Day 2: 21.84'

Total Depth: Day 1: 21.84', Day 2: 21.83'

Water Column: Day 1: 18.4', Day 2: 18.27'

Water Column: Day 1: 18.31', Day 2: 18.12'

Total Purge Volume: 68 gallons

Notes/Observations: 1.96' from top of pvc; bottom @ 19.85' bgs; starting at 16.5-19' screen interval.

Bottom at 19.88' bgs at end of day

SURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
16.5-19.0'	14:10	Start Pump; hand operate at bottom to clear 1 gallon heavy sediments at depth			
16.5-19.0'	14:23	3.50	0.50	Over range	
16.5-19.0'	14:26	3.51	0.125	Over range	
16.5-19.0'	14:30	3.52	0.125	Over range	
16.5-19.0'	14:35	3.55	0.25	Over range	3.75
16.5-19.0'	14:40	3.58	0.25	Over range	4.5
16.5-19.0'	14:42	3.58	0.25	Over range	5.0
16.5-19.0'	14:45	3.58	0.25	Over range	6.25
16.5-19.0'	14:50	3.59	0.25	Over range	7.5
16.5-19.0'	14:55	3.60	0.25	643	8.5
16.5-19.0'	15:00	3.60	0.50	378	10
Stop to get gas for generator. Lift surge block (dual apparatus up 2.5' to target 14-16.5' bgs)					
14.0-16.5'	15:41	3.42	0.25	Over range	0.25
14.0-16.5'	15:45	3.50	0.143	Over range	0.5
14.0-16.5'	15:50	3.50		Over range	2.0

SURGE DATA **Well** MW-303 **Page** 2 of 3

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
14.0-16.5'	15:55	3.70	0.625	544	5.0
14.0-16.5'	16:00	3.70	0.50	384	8.0
14.0-16.5'	16:05	3.70	0.40	270	10
Moved dual block assembly up 2.5' to target 11.5-14' bgs					
11.5-14.0'	16:10	3.65	0.5	Over range	0.5
11.5-14.0'	16:15	3.65	1.0	Over range	3.5
11.5-14.0'	16:20	Raised tubing above grade			5.00
11.5-14.0'	16:25	3.60	0.27	Over range	6.5
11.5-14.0'	16:30	3.70	0.5	Over range	7.5
Sped up pump to restore flow rate after tubing modifcation					
11.5-14.0'	16:35	3.70	0.5	Over range	10
11.5-14.0'	16:40	3.72	0.5	Over range	12.5
11.5-14.0'	16:45	3.72	0.5	Over range	15
Moved dual block assembly up 2.5' to target 9-11.5' bgs					
9.0-11.5'	16:50	3.61	0.5	Over range	0.5
9.0-11.5'	16:55	3.61	0.5	Over range	2.5
9.0-11.5'	17:00	3.71	0.5	Over range	5.0
9.0-11.5'	17:05	3.65	0.5	Over range	7.5
9.0-11.5'	17:10	3.70	0.5	Over range	10
9.0-11.5'	17:15	3.70	0.5	Over range	12.5
9.0-11.5'	17:20	3.70	0.5	Over range	15
9.0-11.5'	17:25	3.70	0.5	Over range	17.5
9.0-11.5'	17:30	3.53	0.5	Over range	20
Stop hydrolift at 20 gallons					

PURGE DATA **Well** MW-303 **Page** 3 of 3

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°F)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
Restart well development on 9/22										
9.0-19.0'	8:09	3.53								
9.0-19.0'	8:15	Pump on, slowed flow								
9.0-19.0'	8:15	3.63	0.30	12.6	7.46	433	374	104.8	3.00	
9.0-19.0'	8:18	3.62	0.29	12.96	7.52	437	186	148.4	3.22	0.87
9.0-19.0'	8:22	3.62	0.26	12.96	7.55	438	131	166.2	2.89	1.91
9.0-19.0'	8:25	3.62	0.25	12.92	7.58	440	95.3	181.6	2.78	2.66
9.0-19.0'	8:30	3.62	0.25	12.91	7.60	441	33.1	189.8	2.78	3.91
9.0-19.0'	8:35	3.64	0.25	12.9	7.60	442	14.6	194.2	2.27	5.16
9.0-19.0'	8:40	3.66	0.25	12.88	7.60	442	12.0	195.1	1.92	6.41
9.0-19.0'	8:45	3.64	0.25	12.88	7.60	444	9.46	195.1	2.27	8.00
9.0-19.0'	8:50	3.98	1.15	12.24	7.59	442	15.7	193.4	2.56	9.25
9.0-19.0'	8:55	4.03	1.15	12.19	7.58	442	30.6	190.3	2.30	13.0
9.0-19.0'	9:00	4.06	1.15	12.15	7.56	442	21.8	186.9	2.17	18.75
9.0-19.0'	9:03	4.13	1.15	12.14	7.55	443	11.2	184.2	1.92	22.2
9.0-19.0'	9:06	4.15	1.15	12.12	7.54	443	5.90	182.7	1.85	25.65
9.0-19.0'	9:09	4.17	1.15	12.11	7.53	443	4.31	181.2	1.80	29.1
Called due to volume of purge/development water										

MONITORING WELL DEVELOPMENT LOG FORM

Mabbett®
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Site Name: Dow FUDS

Location ID: MW-304

Site Location: Bangor, ME

Date: 10/24/2023

Project Number: R2022057.000.014

Method: Surge Block + Whale Pump

Personnel: NVP, EBD

Initial		Final	
Time:	7:40	**Time:**	14:45
Depth to Water:	3.68'	**Depth to Water:**	4.44'
Total Depth:	37.61'	**Total Depth:**	37.6'
Water Column:	33.93'	**Water Column:**	33.16'

Total Purge Volume: 75.25 gallons

Notes/Observations:

SURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
25-28'	8:00	4.22	0.25	Over range	0.00
25-28'	8:05	4.21	0.25	Over range	1.25
25-28'	8:10	4.25	0.25	Over range	2.50
25-28'	8:15	4.30	0.25	Over range	3.75
28-31'	8:20	4.27	0.25	Over range	5.00
28-31'	8:25	4.30	0.25	Over range	6.25
28-31'	8:30	4.27	0.25	Over range	7.50
31-34'	8:35	4.23	0.25	Over range	8.75
31-34'	8:40	4.17	0.25	Over range	10.00
31-34'	8:45	4.13	0.25	Over range	11.25

MONITORING WELL DEVELOPMENT LOG FORM

PURGE DATA **Well** MW-304 **Page** 2 of 3

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°F)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
25-35'	8:55	4.30	0.5	9.06	7.33	206	over range	66.9	0.81	0.0
25-35'	9:00	4.42	0.5	9.13	6.90	194	over range	76.8	0.68	2.5
25-35'	9:05	4.46	0.5	9.17	6.81	192	over range	80.4	0.64	5.0
25-35'	9:10	4.47	0.5	9.24	6.73	192	over range	86.7	0.63	7.5
25-35'	9:15	4.49	0.5	9.26	6.71	192	over range	89.2	0.62	10.0
25-35'	9:20	4.50	0.5	9.28	6.69	192	over range	91.8	0.61	12.5
25-35'	9:25	4.50	0.5	9.28	6.64	191	821	94.6	0.61	15.0
25-35'	9:30	4.50	0.5	9.32	6.63	191	811	96.2	0.61	17.5
25-35'	9:35	4.50	0.5	9.31	6.62	190	591	98.0	0.61	20.0
25-35'	9:40	4.50	0.5	9.31	6.62	190	471	99.4	0.61	22.5
25-35'	9:45	4.50	0.5	9.31	6.63	191	384	101.6	0.61	25.0
25-35'	9:50	4.51	0.5	9.29	6.62	190	298	104.3	0.60	27.5
25-35'	9:55	4.51	0.5	9.29	6.61	190	264	105.8	0.60	30.0
25-35'	10:00	4.51	0.5	9.29	6.60	190	231	107.6	0.60	32.5
25-35'	10:05	4.51	0.5	9.32	6.59	190	182	109.8	0.60	35.0
25-35'	10:10	4.51	0.5	9.36	6.58	190	163	112.1	0.60	37.5
25-35'	10:15	4.51	0.5	9.36	6.59	190	147	112.7	0.60	40.0
25-35'	10:20	4.51	0.5	9.37	6.58	190	141	114.5	0.60	42.5
25-35'	10:23	4.51	0.5	9.38	6.59	189	138	114.9	0.60	44.0

MONITORING WELL DEVELOPMENT LOG FORM

PURGE DATA **Well** MW-304 **Page** 3 of 3

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°F)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
25-35'	14:05	3.68	0.5	10.03	7.70	206	over range	34.8		0.0
25-35'	14:10	4.27	0.5	9.51	6.59	194	662	81.8	0.85	2.5
25-35'	14:15	4.33	0.5	9.51	6.39	192	234	96.0	0.77	5.0
25-35'	14:20	4.36	0.5	9.49	6.35	191	125	99.4	0.74	7.5
25-35'	14:25	4.38	0.5	9.54	6.32	192	100	100.2	0.71	10.0
25-35'	14:30	4.40	0.5	9.38	6.31	191	57.3	106.8	0.69	12.5
25-35'	14:35	4.44	0.5	9.36	6.30	190	27.7	110.7	0.66	15.0
25-35'	14:40	4.43	0.5	9.36	6.28	191	26.8	112.2	0.67	17.5
25-35'	14:45	4.44	0.5	9.33	6.28	190	16.6	115.6	0.66	20.0

MONITORING WELL DEVELOPMENT LOG FORM

Mabbett®
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Site Name: Dow FUDS

Location ID: MW-305

Site Location: Bangor, ME

Date: 10/23/2023

Project Number: R2022057.000.014

Method: Surge Block + Whale Pump

Personnel: NVP, EBD

Initial		Final	
Time:	12:40	**Time:**	13:30
Depth to Water:	2.95'	**Depth to Water:**	22.25'
Total Depth:	38.81'	**Total Depth:**	38.8'
Water Column:	35.86'	**Water Column:**	16.55'

Total Purge Volume: 11.5 gallons

Notes/Observations:

SURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
27-30'	12:40	7.91	0.25	Over range	0.00
27-30'	12:45	12.93	0.25	112	1.25
27-30'	12:50	15.74	0.25	188	2.50
27-30'	12:55	18.53	0.25	509	3.75
30-33'	13:00	18.81	0.25	Over range	5.00
30-33'	13:05	20.12	0.25	Over range	6.25
30-33'	13:10	20.85	0.25	Over range	7.50
33-36'	13:15	19.60	0.25	Over range	7.50
33-36'	13:20	21.36	0.25	Over range	8.75
33-36'	13:25	21.74	0.25	Over range	10.00
33-36'	13:30	22.25	0.25	Over range	11.25

MONITORING WELL DEVELOPMENT LOG FORM

PURGE DATA **Well** MW-305 **Page** 2 of 2

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°F)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
27-37'	13:50	14.92	0.5	9.02	8.13	284	over range	-103.0	0.04	0.0
27-37'	13:55	25.20	0.5							

MONITORING WELL DEVELOPMENT LOG FORM

Mabbett®
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Site Name: Dow FUDS

Location ID: MW-306

Site Location: Bangor, ME

Date: 10/11/2023

Project Number: R2022057.000.014

Method: Surge Block + Whale Pump

Personnel: NVP, EBD

Initial		Final	
Time:	7:45	**Time:**	14:45
Depth to Water:	2.23'	**Depth to Water:**	2.49'
Total Depth:	27.80'	**Total Depth:**	27.80'
Water Column:	25.57'	**Water Column:**	25.31'

Total Purge Volume: 37.25 gallons

Notes/Observations:

SURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
16-19'	7:48	2.23	0.25	over range	0.00
16-19'	7:53	2.48	0.25	over range	1.25
16-19'	7:58	2.62	0.40	over range	3.25
16-19'	8:03	2.74	0.40	over range	5.25
16-19'	8:08	2.80	0.40	over range	7.25
16-19'	8:13	2.62	0.25	over range	8.50
16-19'	8:18	2.65	0.25	over range	9.75
16-19'	8:23	2.62	0.25	over range	11.00
19-22'	8:30	2.40	0.25	over range	12.25
19-22'	8:35	2.39	0.25	over range	13.50
19-22'	8:40	2.40	0.25	over range	14.75
19-22'	8:45	2.40	0.25	over range	16.00
19-22'	8:50	2.40	0.25	over range	17.25
19-22'	8:55	2.40	0.25	over range	18.50

MONITORING WELL DEVELOPMENT LOG FORM

SURGE DATA **Well** MW-306 **Page** 2 of 3

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
19-22'	9:00	2.40	0.25	over range	19.75
22-25'	9:10	2.40	0.25	over range	21.00
22-25'	9:15	2.48	0.25	over range	22.25
22-25'	9:20	2.50	0.25	over range	23.50
22-25'	9:25	2.48	0.25	over range	24.75
22-25'	9:30	2.51	0.25	over range	26.00
22-25'	9:35	2.49	0.25	over range	27.25

MONITORING WELL DEVELOPMENT LOG FORM

PURGE DATA **Well** MW-306 **Page** 3 of 3

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
16-26'	10:55	2.45	0.50	10.60	7.41	504	705	-85.9	2.94	2.2
16-26'	11:00	2.41	0.33	10.60	7.39	508	139	-87.0	2.54	4.0
16-26'	11:05	2.42	0.33	10.58	7.39	509	69.6	-89.1	2.36	5.5
16-26'	11:10	2.41	0.33	10.57	7.39	509	49.6	-90.8	2.54	7.0
16-26'	11:15	2.41	0.33	10.57	7.40	508	37.9	-92.8	2.54	8.5
16-26'	11:20	2.41	0.33	10.56	7.40	508	41.3	-93.4	2.54	10.0

MONITORING WELL DEVELOPMENT LOG FORM

Mabbett®
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Site Name: Dow FUDS

Location ID: MW-307

Site Location: Bangor, ME **Date:** 10/22/2023

Project Number: R2022057.000.014 **Method:** Whale Pump

Personnel: EBD

Initial		Final	
Time:	7:35	**Time:**	8:10
Depth to Water:	5.51'	**Depth to Water:**	5.84'
Total Depth:	34.49'	**Total Depth:**	28.98'
Water Column:	28.98'	**Water Column:**	23.14'

Total Purge Volume: 17.5 gallons

Notes/Observations:

PURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
22-32'	7:36	5.46	0.5	8.66	7.00	590	97.1	-217.4		0.0
22-32'	7:40	5.71	0.5	8.99	6.76	595	5.08	-232.6	2.00	2.5
22-32'	7:45	5.76	0.5	9.09	6.69	598	1.13	-241.9	1.67	5.0
22-32'	7:50	5.79	0.5	9.11	6.65	598	0.50	-247.2	1.52	7.5
22-32'	7:55	5.81	0.5	9.16	6.62	598	0.43	-238.2	1.43	10.0
22-32'	8:00	5.83	0.5	9.19	6.61	597	0.75	-218.5	1.35	12.5
22-32'	8:05	5.85	0.5	9.17	6.60	597	1.03	-211.3	1.28	15.0
22-32'	8:10	5.84	0.5	9.22	6.63	597	0.81	-207.4	1.32	17.5

MONITORING WELL DEVELOPMENT LOG FORM

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Site Name: Dow FUDS

Location ID: MW-308

Site Location: Bangor, ME

Date: 2/21/2024-2/22/2024

Project Number: R2022057.000.014

Method: Surge Block + Whale Pump

Personnel: NVP, EBD

Initial		Final	
Time:	13:30	**Time:**	14:45 (2/22/24)
Depth to Water:	3.64' 22.81'	**Depth to Water:**	30.83'
Total Depth:	35.50' 35.63'	**Total Depth:**	35.61'
Water Column:	31.86 12.82'	**Water Column:**	4.78'

Total Purge Volume: 26.5 gallons

Notes/Observations: 2/21 water level values to left, 2/22 water level values to right above.

SURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
25-28'	13:40			Over range	0.0
25-28'	13:45	13.17	0.5	Over range	2.5
25-28'	13:50	17.29	0.5	Over range	5.0
25-28'	13:55	22.64	0.5	Over range	7.5
28-31'	14:00	24.87	0.5	Over range	10.0
28-31'	14:05	26.10	0.5	Over range	12.5
28-31'	14:10	top of block	0.5	Over range	15.0
28-31'	14:15	28.74	0.5	Over range	17.5
31-35'	14:20	top of block	0.5	Over range	20.0
Stop surge at 14:25 and allow well to recharge overnight (readings below recorded on 2/22/24).					
31-35'	7:40	22.03	0.5	Over range	20.0
31-35'	7:45	top of block	0.5	Over range	22.5
31-35'	7:50	31.95	0.0		

MONITORING WELL DEVELOPMENT LOG FORM

PURGE DATA **Well** MW-308 **Page** 2 of 2

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
25-35'	7:23	15.22	0.00							
25-35'	7:50	14.07	0.00	8.28	8.21	204	417	-144.9		0.00
25-35'	7:55	18.65	0.10	8.80	8.08	208	316	-193.0	0.007	0.50
25-35'	8:00	20.38	0.10	9.06	7.96	213	228	-191.9	0.006	1.00
25-35'	8:05	23.94	0.15	9.39	7.85	220	158	-140.5	0.007	1.75
25-35'	8:10	26.04	0.10	9.45	7.83	222	143	-140.3	0.004	2.25
25-35'	8:15	28.01	0.10	9.60	7.8	226	162	-139.4	0.004	2.75
25-35'	8:20	28.80	0.05	9.68	7.77	229	158	-138.2	0.002	3.00
25-35'	8:25	29.86	0.10	9.71	7.71	229	234	-135.7	0.004	3.50
25-35'	8:30	30.91	0.10	9.71	7.68	231	178	-135.0	0.004	4.00

MONITORING WELL DEVELOPMENT LOG FORM

Mabbett®
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Site Name: Dow FUDS

Location ID: MW-309

Site Location: Bangor, ME **Date:** 2/20/2024

Project Number: R2022057.000.014 **Method:** Surge Block + Whale Pump

Personnel: JCK, EBD

Initial		Final	
Time:	10:10	**Time:**	14:30
Depth to Water:	1.46'	**Depth to Water:**	8.80'
Total Depth:	55.58'	**Total Depth:**	55.58'
Water Column:	54.12'	**Water Column:**	46.78'

Total Purge Volume: 63.5 gallons

Notes/Observations: sensitivity issues on water level meter caused DTW fluctuations.

SURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
44-47.3'	11:00	1.55	0.50	over range	0.0
44-47.3'	11:05	5.17	0.50	over range	2.5
44-47.3'	11:10	9.28	0.50	over range	5.0
44-47.3'	11:15	9.16	0.50	over range	7.5
47.3-50.7'	11:20	8.55	0.50	over range	10.0
47.3-50.7'	11:25	5.76	0.50	over range	12.5
47.3-50.7'	11:30	7.26	0.50	over range	15.0
50.6-54'	11:35	9.18	0.50	over range	17.5
50.6-54'	11:40	9.39	0.50	over range	20.0
50.6-54'	11:45	9.46	0.50	over range	22.5
44-47.3'	13:35	5.16	0.75	491	26.0
44-47.3'	13:40	8.33	0.75	634	29.75
44-47.3'	13:45	8.43	0.75	1020	33.5
44-47.3'	13:50	8.,66	0.75	902	39.25

MONITORING WELL DEVELOPMENT LOG FORM

SURGE DATA **Well** MW-309 **Page** 2 of 2

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
47.3-50.7'	13:55	6.74	0.75	111	41.0
47.3-50.7'	14:00	7.08	0.5	263	43.5
47.3-50.7'	14:05	7.19	0.5	529	46.0
47.3-50.7'	14:10	7.27	0.5	652	48.5
50.6-54'	14:15	7.89	0.75	225	52.25
50.6-54'	14:20	8.40	0.75	867	56.0
50.6-54'	14:25	8.73	0.75	883	59.75
50.6-54'	14:30	8.80	0.75	890	63.5

MONITORING WELL DEVELOPMENT LOG FORM

Mabbett®
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Site Name: Dow FUDS

Location ID: MW-310

Site Location: Bangor, ME **Date:** 2/21/2024

Project Number: R2022057.000.014 **Method:** Surge Block + Whale Pump

Personnel: JCK, EBD

Initial		Final	
Time:	10:50	**Time:**	12:00
Depth to Water:	2.73'	**Depth to Water:**	5.81'
Total Depth:	43.44'	**Total Depth:**	43.44'
Water Column:	40.71'	**Water Column:**	37.63'

Total Purge Volume: 67.0 gallons

Notes/Observations: Ice at 2.59'. Able to break through ice to measure water level.

SURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
32-35'	10:45	2.78	0.45	427	0.00
32-35'	10:50	4.99	0.45	386	2.25
32-35'	10:55	5.62	0.45	over range	4.50
32-35'	11:00	5.61	0.45	over range	6.75
32-35'	11:05	5.66	0.45	over range	9.00
32-35'	11:10	6.16	0.45	over range	11.25
35-38'	11:15	5.10	0.45	over range	13.50
35-38'	11:20	5.95	0.45	over range	15.75
35-38'	11:25	5.78	0.45	551	18.00
35-38'	11:30	5.79	0.45	642	20.25
35-38'	11:35	5.78	0.45	709	22.50
38-42'	11:40	6.42	0.45	703	24.75
38-42'	11:45	6.18	0.45	710	27.00
38-42'	11:50	5.89	0.45	658	29.25

MONITORING WELL DEVELOPMENT LOG FORM

SURGE DATA **Well** MW-310 **Page** 2 of 3

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
38-42'	11:55	5.93	0.45	634	31.50
38-42'	12:00	5.81	0.45	688	33.75

MONITORING WELL DEVELOPMENT LOG FORM

PURGE DATA **Well** MW-310 **Page** 3 of 3

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
32-42'	14:10	2.63								
32-42'	14:20	2.50	0.325	7.98	8.72	243	over range	-329.6		0.00
32-42'	14:25	4.61	0.325	8.60	8.31	250	383	-426.1	0.16	1.63
32-42'	14:30	5.79	0.5	8.50	8.22	251	630	-431.2	0.16	3.25
32-42'	14:35	6.09	0.5	8.50	8.14	254	595	-417.1	0.14	5.75
32-42'	14:40	6.13	0.5	8.49	8.12	254	452	-400.5	0.14	8.25
32-42'	14:45	6.14	0.5	8.53	8.12	254	449	-388.8	0.14	10.75
32-42'	14:50	6.18	0.5	8.54	8.12	254	343	-375.0	0.14	12.25
32-42'	14:55	6.19	0.5	8.56	8.12	254	433	-349.9	0.14	15.75
32-42'	15:00	6.24	0.5	8.58	8.12	254	343	-337.4	0.14	18.25
32-42'	15:05	6.23	0.5	8.54	8.13	253	343	-323.3	0.14	20.75
32-42'	15:10	6.14	0.5	8.51	8.11	255	384	-301.9	0.14	23.25
32-42'	15:15	5.94	0.5	8.46	8.12	254	504	-304.4	0.15	25.75
32-42'	15:20	5.74	0.5	8.45	8.12	253	338	-292.8	0.16	28.25
32-42'	15:25	5.54	0.5	8.46	8.12	254	369	-290.3	0.17	30.75
32-42'	15:30	5.48	0.5	8.44	8.12	254	314	-283.6	0.18	33.25

MONITORING WELL DEVELOPMENT LOG FORM

Mabbett®
Scientists | Engineers | Program Managers

Site Name: Dow FUDS

Location ID: MW-311

Site Location: Bangor, ME

Date: 10/23/2023

Project Number: R2022057.000.014

Method: Surge Block + Whale Pump

Personnel: NVP, EBD

Initial		Final	
Time:	14:28	**Time:**	15:30
Depth to Water:	3.57'	**Depth to Water:**	4.01'
Total Depth:	20.56'	**Total Depth:**	20.56'
Water Column:	16.99'	**Water Column:**	16.55'

Total Purge Volume: 27.75 gallons

Notes/Observations:

SURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
10-13'	14:45	4.69	0.25	Over range	0.00
10-13'	14:50	3.94	0.25	Over range	1.25
10-13'	14:55	3.91	0.25	Over range	2.50
10-13'	15:00	3.91	0.25	Over range	3.75
13-16'	15:05	3.88	0.25	Over range	5.00
13-16'	15:10	3.84	0.25	Over range	6.25
13-16'	15:15	3.82	0.25	Over range	7.50
16-19'	15:20	3.99	0.25	Over range	8.75
16-19'	15:25	4.00	0.25	Over range	10.00
16-19'	15:30	4.01	0.25	Over range	11.25

MONITORING WELL DEVELOPMENT LOG FORM

PURGE DATA **Well** MW-311 **Page** 2 of 2

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
10-20'	15:40	3.70	0.5	11.87	7.59	682	over range	-22.7	3.85	0.0
10-20'	15:45	3.97	0.5	11.80	7.39	685	737	-102.6	1.25	2.5
10-20'	15:50	3.98	0.5	11.79	7.37	684	429	-105.9	1.22	5.0
10-20'	15:55	3.98	0.5	11.78	7.37	684	238	-108.7	1.22	7.5
10-20'	16:00	4.00	0.5	11.76	7.38	683	172	-110.7	1.16	10.0
10-20'	16:05	4.01	0.5	11.75	7.38	683	147	-111.3	1.14	12.5
10-20'	16:10	4.01	0.5	11.73	7.38	683	142	-112.1	1.14	15.0
10-20'	16:13	4.00	0.5	11.67	7.41	680	137	-112.6	1.16	16.5

MONITORING WELL DEVELOPMENT LOG FORM

Mabbett®
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Site Name: Dow FUDS

Location ID: MW-312

Site Location: Bangor, ME

Date: 2/21/2024-2/23/2024

Project Number: R2022057.000.014

Method: Surge Block + Whale Pump

Personnel: JCK, EBD

Initial		Final	
Time:	7:26	**Time:**	9:40
Depth to Water:	3.46'	**Depth to Water:**	39.29'
Total Depth:	42.83'	**Total Depth:**	42.83'
Water Column:	39.37'	**Water Column:**	3.54'

Total Purge Volume: 76.5 gallons

Notes/Observations: Moved to MW-310 after surging due to excessive drawdown.

Data from three surges provided below.

SURGE DATA

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
30-33'	7:55	3.46	0.63	over range	3.125
30-33'	8:00	32.10	0.50	over range	5.625
30-33'	8:05	32.60	0.25	over range	6.875
30-33'	8:10	33.00	0.25	over range	8.125
30-33'	8:15	30.67	0.00	over range	8.125
30-33'	8:20	12.77	0.00	over range	8.125
30-33'	8:05	13.61	0.00	over range	8.125
30-33'	8:30	12.99	0.00	over range	8.125
30-33'	8:35	13.61	0.20	over range	9.125
30-33'	8:40	14.35	0.10	over range	9.625
30-33'	8:45	27.14	0.00	over range	9.625
33-36'	8:50	32.81	0.10	over range	10.125
33-36'	8:55	30.84	0.15	over range	10.875
33-36'	9:00	35.25	0.15	over range	11.625

MONITORING WELL DEVELOPMENT LOG FORM

SURGE DATA **Well** MW-312 **Page** 2 of 4

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
33-36'	9:05	28.81	0.10	over range	12.125
33-36'	9:10	top of block	0.175	over range	13.000
36-39'	9:15		0.00	over range	13.000
36-39'	9:20	37.28	0.00	over range	13.000
36-39'	9:25	38.13	0.15	over range	13.750
36-39'	9:30	39.29	0.125	over range	14.375
36-39'	9:35	top of block	0.125	over range	15.000
36-39'	9:40	top of block	0.05	over range	15.250
Surge 2 on 2/22/2024					
30-33'	8:25	10.90	0.1	over range	0.5
30-33'	8:30	15.57	0.4	over range	2.5
30-33'	8:35	25.54	0.5	over range	5.0
30-33'	8:40	28.71	0.5	over range	7.5
33-36'	8:45	32.78	0.5	over range	10
33-36'	8:50	34.03	0.5	over range	12.5
33-36'	8:55	top of block	0.5	over range	15
36-39'	9:00	32.10	0.5	over range	17.5
36-39'	9:05	top of block	0.4	over range	19.5
Surge 3 on 2/23/2024					
30-33'	7:20	6.64	0.5	305	2.5
30-33'	7:25	10.02	0.5	968	5.0
30-33'	7:30	12.83	0.5	over range	7.5
33-36'	7:35	18.24	0.5	over range	10.0
33-36'	7:40	21.03	0.5	over range	12.5
33-36'	7:45	23.67	0.5	over range	15.0
33-36'	7:50	24.95	0.5	over range	17.5
36-39'	7:55	25.06	0.5	over range	20.0
36-39'	8:00	26.62	0.5	over range	22.5

MONITORING WELL DEVELOPMENT LOG FORM

SURGE DATA **Well** MW-312 **Page** 3 of 4

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Turbidity (NTU)	Gallons
36-39'	8:05	31.78	0.5	over range	25.0
36-39'	8:10	35.14	0.5	over range	27.5
36-39'	8:15	38.43	0.5	over range	30.0
36-39'	8:20	top of block	0.5	over range	32.5

MONITORING WELL DEVELOPMENT LOG FORM

PURGE DATA **Well** MW-312 **Page** 4 of 4

Well Screen Interval	Time	DTW (ft)	Purge Rate (gal/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm2)	Turbidity (NTU)	ORP mV	SPC (gpm/ft)	Gallons
30-40'	12:30	17.88								
30-40'	12:50	14.92	0.05	8.34	11.06	925	459	-80.2	0.004	0.25
30-40'	12:55	18.93	0.08	8.82	11.02	902	404	-92.1	0.005	0.65
30-40'	13:00	20.05	0.07	8.67	10.82	867	379	-89.0	0.004	1.00
30-40'	13:05	20.47	0.017	8.74	10.73	859	303	-88.8	0.001	1.10
30-40'	13:10	20.73	0.017	8.82	10.66	841	263	-88.3	0.001	1.20
30-40'	13:15	21.01	0.017	8.51	10.50	815	234	-92.7	0.001	1.25
30-40'	13:20	21.33	0.05	8.87	10.43	804	220	-91.0	0.003	1.50
30-40'	13:25	21.68	0.05	9.03	10.41	799	185	-88.9	0.003	1.75
30-40'	13:30	21.93	0.025	9.18	10.41	794	165	-87.3	0.001	1.88
30-40'	13:35	22.18	0.05	9.39	10.42	790	149	-86.0	0.003	2.125
30-40'	13:40	22.34	0.025	9.54	10.42	789	140	-84.0	0.001	2.25
30-40'	15:40	3.26	0.10	8.20	9.70	639	188	-158.6		0.50
30-40'	15:45	19.75	0.15	9.15	9.37	635	49.2	-177.4		3.25
30-40'	15:50	22.63	0.15	8.94	9.43	649	62.9	-173.9		4.00
30-40'	15:55	25.13	0.10	8.93	9.53	660	56.7	-184.2		4.50
30-40'	16:00	27.26	0.10	8.86	9.67	675	55.1	174.3		5.00
30-40'	16:05	28.99	0.10	8.94	9.71	677	58.5	-174.0		5.50
30-40'	16:10	30.49	0.10	8.97	9.74	678	46.9	-178.2		6.00
30-40'	16:15	31.70	0.10	8.98	9.83	689	48.8	-175.4		6.50
30-40'	16:20	32.87	0.10	8.96	9.85	688	45.9	-179.9		7.00
30-40'	16:25	33.30	0.10	8.91	9.83	684	49.6	-176.8		7.50
Pump malfunction										
30-40'	16:40	30.00	0.10	6.3	9.56	646	671	-180.9		8.0
30-40'	16:45	30.34	0.10	7.84	9.54	626		-206.8		8.5
Second pump malfunction										
30-40'	17:05	29.34	0.15	8.06	9.30	618		-216.1		9.25

Attachment C-4

Groundwater Sampling Logs and Calibration Sheets

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-3
Site Location: Bangor, ME
Project No: R2022057.000 **Date:** 4/22/2024 **Time:** 1605
Personnel: DJB **Sample Method:** Low Flow/Peristaltic Pump

			At Start	At End
Depth to Water:	5.20'			
Total Depth:	12.82'	Sheen Observed:	No	No
Water Column:	7.62'	Odor Observed:	No	No
Depth Sampled:	9'	PID Screening:	0.0	0.0

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1505	**START PURGE**							
1510	5.22	260	6.8	6.63	246.1	0.89	147.2	11.8
1515	5.85	240	6.7	6.63	245.8	1.04	147.9	6.70
1520	5.92	180	6.7	6.63	248.2	0.87	147.1	5.33
1525	6.05	160	6.7	6.62	249.0	0.49	144.1	4.34
1530	6.14	150	6.7	6.62	250.4	0.35	142.1	5.17
1535	6.20	140	6.9	6.62	253.7	0.22	139.2	4.72
1540	6.26	130	7.0	6.62	253.5	0.23	138.3	4.60
1545	6.30	130	6.6	6.62	256.2	0.12	135.0	4.31
1550	6.37	140	6.7	6.62	255.1	0.13	133.8	4.45
1555	6.41	140	6.8	6.62	256.3	0.13	132.4	4.97
1600	6.46	130	6.8	6.62	257.7	0.13	131.8	4.74

Total Volume Purged: ~2.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	--
PAHs	1 L amber	2	N	4°C	--
total metals	250 mL poly	1	N	HNO3	--
diss metals	250 mL poly	1	Y	HNO3	--
Cr6+	125 mL poly	1	Y	Cr6+ buffer	9.02

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-5

Site Location: Bangor, ME

Project No: R2022057.000 **Date:** 4/25/2024 **Time:** 0915

Personnel: DJB **Sample Method:** Low Flow/Peristaltic Pump

			At Start	At End
Depth to Water:	4.64'			
Total Depth:	15.24'	Sheen Observed:	No	No
Water Column:	10.60'	Odor Observed:	No	No
Depth Sampled:	10'	PID Screening:	0.0	0.0

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0815	**START PURGE**							
0820	4.66	140	6.4	6.30	170.5	3.20	207.5	18.4
0825	4.70	130	6.4	6.29	170.6	3.05	208.9	17.6
0830	4.72	140	6.6	6.28	170.3	2.91	210.6	12.2
0835	4.72	140	6.5	6.28	170.2	2.75	211.9	10.4
0840	4.73	130	6.4	6.28	169.8	2.74	212.5	5.83
0845	4.72	130	6.4	6.28	170.5	2.73	212.6	5.86
0850	4.71	130	6.6	6.28	169.8	2.67	213.3	4.79
0855	4.71	160	6.6	6.27	170.0	2.64	215.1	2.45
0900	4.70	150	6.7	6.27	170.1	2.63	215.8	3.26
0905	4.73	180	6.7	6.27	169.8	2.59	217.3	3.17
0910	4.74	170	6.8	6.27	170.2	2.58	217.7	3.42

Total Volume Purged: ~3.0 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	--
PAHs	1 L amber	2	N	4°C	--
total metals	250 mL poly	1	N	HNO3	--
diss metals	250 mL poly	1	Y	HNO3	--
Cr6+	125 mL poly	1	Y	Cr6+ buffer	9.15

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-8

Site Location: Bangor, ME

Project No: R2022057.000 **Date:** 4/25/2024 **Time:** 1000

Personnel: JTW **Sample Method:** Low Flow/Peristaltic Pump

			At Start	At End
Depth to Water:	5.93'			
Total Depth:	15.03'	Sheen Observed:	No	No
Water Column:	9.10'	Odor Observed:	No	No
Depth Sampled:	10'	PID Screening:	0.0	0.0

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0830	6.22	140	5.0	6.40	208.1	2.41	187.8	51.3
0835	6.30	140	5.3	6.37	219.6	1.67	157.5	37.9
0840	6.33	145	5.2	6.36	219.1	1.63	152.3	31.6
0845	6.35	145	5.3	6.35	223.0	1.42	136.4	29.6
0850	6.41	145	5.3	6.34	222.3	1.34	122.8	26.3
0855	6.41	145	5.3	6.35	229.0	1.17	116.3	21.6
0900	6.44	145	5.4	6.35	234.5	1.04	112.8	20.3
0905	6.45	145	5.5	6.35	236.7	0.95	107.8	16.50
0910	6.45	155	5.5	6.35	242.2	0.88	107.1	14.9
0915	6.45	155	5.6	6.35	242.2	0.80	105.5	12.8
0920	6.45	160	5.6	6.35	244.7	0.73	105.9	11.1
0925	6.45	160	5.7	6.35	247.6	0.70	105.2	9.92
0930	6.45	160	5.7	6.37	249.3	0.68	95.3	9.15
0935	6.45	160	5.7	6.35	250.1	0.65	97.8	7.27
0940	6.45	160	5.7	6.35	252.7	0.59	99.4	5.56
0945	6.45	160	5.7	6.35	253.6	0.55	99.6	5.14
0950	6.45	160	5.7	6.35	254.2	0.53	98.9	4.95
0955	6.45	160	5.7	6.35	257.5	0.49	98.0	4.99

Total Volume Purged: ~4.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	--
PAHs	1 L amber	2	N	4°C	--
total metals	250 mL poly	1	N	HNO3	--
diss metals	250 mL poly	1	Y	HNO3	--
Cr6+	125 mL poly	1	Y	Cr6+ buffer	9.01

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-20
Site Location: Bangor, ME
Project No: R2022057.000 **Date:** 4/24/2024 **Time:** 1313
Personnel: JTW **Sample Method:** Low Flow/Peristaltic Pump

			At Start	At End
Depth to Water:	5.56'	Sheen Observed:	No	No
Total Depth:	15.32'	Odor Observed:	No	No
Water Column:	9.76'	PID Screening:	0.0	0.0
Depth Sampled:	12'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1205	6.15	120	6.8	6.73	331.2	4.16	235.9	27.2
1210	6.24	120	6.6	6.75	330.4	4.06	234.2	26.4
1215	6.15	80	6.7	6.76	333.8	4.03	233.9	25.7
1220	6.15	80	6.5	6.77	337.8	3.75	233.4	21.9
1225	6.15	80	6.4	6.76	339.1	3.60	232.9	17.2
1230	6.15	80	6.8	6.75	342.7	3.23	231.6	15.8
1235	6.19	80	6.1	6.75	345.2	2.92	228.5	12.0
1240	6.19	80	6.1	6.75	344.2	2.92	228.3	9.10
1245	6.15	80	6.7	6.74	348.0	2.85	226.9	7.39
1250	6.15	80	6.0	5.75	345.0	2.83	226.4	6.24
1255	6.15	90	6.1	6.74	345.6	2.80	225.9	9.90
1300	6.17	90	6.0	6.74	345.1	2.83	225.6	8.55
1305	6.16	90	6.0	6.72	346.1	2.80	225.4	8.28
1310	6.17	90	6.0	6.71	346.3	2.78	225.3	7.75

Total Volume Purged: ~3.0 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	--
PAHs	1 L amber	2	N	4°C	--
total metals	250 mL poly	1	N	HNO3	--
diss metals	250 mL poly	1	Y	HNO3	--
Cr6+	125 mL poly	1	Y	Cr6+ buffer	9.20

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-23
Site Location: Bangor, ME
Project No: R2022057.000 **Date:** 4/23/2024 **Time:** 1640
Personnel: CEW **Sample Method:** Low Flow/Peristaltic Pump

			At Start	At End
Depth to Water:	6.90'			
Total Depth:	15.15'	Sheen Observed:	No	No
Water Column:	8.25'	Odor Observed:	No	No
Depth Sampled:	14'	PID Screening:	0.0	0.0

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1546	**START PURGE**							
1551	7.20	140	7.2	6.61	248.2	7.14	69.3	51.5
1556	7.35	140	7.3	6.60	246.9	7.02	89.1	37.8
1601	7.72	140	7.4	6.59	245.5	7.09	103.7	38.2
1606	8.00	180	7.3	6.51	264.5	5.00	71.4	31.3
1611	8.29	140	7.0	6.49	271.4	3.69	59.6	18.5
1616	8.54	140	7.0	6.49	272.4	3.43	74.0	16.5
1621	8.77	160	6.9	6.49	274.3	3.61	94.5	14.5
1626	9.10	120	6.7	6.48	272.0	3.76	109.1	13.9
1631	9.36	120	6.8	6.48	275.0	3.68	116.6	13.4
1636	9.59	120	6.7	6.49	280.0	3.60	119.3	12.7

Total Volume Purged: ~2.75 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	--
PAHs	1 L amber	2	N	4°C	--
total metals	250 mL poly	1	N	HNO3	--
diss metals	250 mL poly	1	Y	HNO3	--
Cr6+	125 mL poly	1	Y	Cr6+ buffer	9.38

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-301
Site Location: Bangor, ME
Project No: R2022057.000 **Date:** 4/22/2024 **Time:** 1600
Personnel: JTW **Sample Method:** Low Flow/Peristaltic Pump

			At Start	At End
Depth to Water:	3.10'			
Total Depth:	43.43'	Sheen Observed:	No	No
Water Column:	40.33'	Odor Observed:	No	No
Depth Sampled:	35'	PID Screening:	0.0	0.0

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1500	3.25	135	8.8	6.91	315.7	1.10	57.2	20.6
1505	3.22	135	8.8	6.90	314.4	0.74	62.0	20.0
1510	3.28	140	8.9	6.90	314.3	0.63	65.4	15.0
1515	3.28	140	8.8	6.90	313.8	0.59	67.1	13.5
1520	3.30	150	8.8	6.90	313.7	0.54	69.5	11.0
1525	3.30	150	8.9	6.89	313.2	0.52	71.4	9.63
1530	3.32	170	9.0	6.89	313.8	0.50	72.6	8.33
1535	3.32	170	9.0	6.89	313.9	0.49	73.7	8.82
1540	3.32	165	9.0	6.89	313.9	0.49	74.5	7.60
1545	3.32	165	9.0	6.89	314.0	0.48	74.9	7.32
1550	3.32	165	9.0	6.89	313.7	0.48	75.4	6.91
1555	3.32	165	9.0	6.89	313.9	0.48	75.6	7.15

Total Volume Purged: ~2.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	--
PAHs	1 L amber	2	N	4°C	--
total metals	250 mL poly	1	N	HNO3	--
diss metals	250 mL poly	1	Y	HNO3	--
Cr6+	125 mL poly	1	Y	Cr6+ buffer	9.14

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-302

Site Location: Bangor, ME

Project No: R2022057.000 **Date:** 4/22/2024 **Time:** 1230

Personnel: CEW/DJB **Sample Method:** Low Flow/Peristaltic Pump

			At Start	At End
Depth to Water:	2.59'	Sheen Observed:	No	No
Total Depth:	28.75'	Odor Observed:	No	No
Water Column:	26.16'	PID Screening:	0.0	0.0
Depth Sampled:	25'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1105	**START PURGE**							
1110	2.73	140	9.0	8.01	457.7	1.15	-70.1	31.7
1115	2.80	155	9.1	8.00	458.7	0.41	-102.2	36.2
1120	2.80	160	9.1	7.99	459.3	0.30	-108.6	31.7
1125	2.80	180	9.2	7.97	461.1	0.21	-112.1	32.2
1130	2.80	200	9.2	7.93	468.5	0.14	-112.1	30.6
1135	2.80	180	9.2	7.94	467.5	0.12	-115.4	25.0
1140	2.80	190	9.4	7.88	477.9	0.09	-111.9	25.0
1145	2.81	190	9.4	7.88	480.7	0.07	-110.6	21.5
1150	2.81	195	9.3	7.89	478.5	0.07	-112.0	20.8
1155	2.81	180	9.4	7.88	482.0	0.06	-109.1	17.8
1200	2.81	195	9.4	7.87	486.5	0.06	-108.7	18.7
1205	2.82	220	9.5	7.78	494.0	0.05	-104.7	15.8
1210	2.83	220	9.5	7.77	497.5	0.02	-103.2	14.9
1215	2.83	210	9.5	7.81	486.4	0.01	-103.3	11.7
1220	2.83	215	9.6	7.80	495.6	0.00	-98.6	11.0
1225	2.84	220	9.7	7.80	506.0	0.00	-96.8	10.0
1230	2.84	220	9.7	7.79	503.0	0.00	-96.0	8.46

Total Volume Purged: ~2.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	--
PAHs	1 L amber	2	N	4°C	--
total metals	250 mL poly	1	N	HNO3	--
diss metals	250 mL poly	1	Y	HNO3	--
Cr6+	125 mL poly	1	Y	Cr6+ buffer	9.16

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-303

Site Location: Bangor, ME

Project No: R2022057.000 **Date:** 4/22/2024 **Time:** 0930

Personnel: CEW/JTW **Sample Method:** Low Flow/Peristaltic Pump

			At Start	At End
Depth to Water:	3.42'			
Total Depth:	21.83'	Sheen Observed:	No	No
Water Column:	18.41'	Odor Observed:	No	No
Depth Sampled:	18'	PID Screening:	0.0	0.0

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0838	**START PURGE**							
0843	3.43	140	6.0	7.11	589	1.07	-153.5	137.0
0848	3.43	140	6.0	7.10	588	0.44	-162.2	127.0
0853	3.43	210	6.0	7.12	589	0.27	-167.6	98.1
0858	3.42	210	6.0	7.13	591	0.21	-167.7	45.1
0903	3.42	200	6.0	7.13	593	0.16	-165.2	25.1
0908	3.45	200	6.0	7.14	593	0.13	-159.5	13.1
0913	3.45	210	6.0	7.16	593	0.12	-158.3	8.03
0918	3.45	210	6.0	7.14	593	0.11	-156.1	8.96
0923	3.45	210	6.0	7.14	593	0.11	-153.0	4.58
0928	3.45	210	6.0	7.15	595	0.10	-152.3	3.86

Total Volume Purged: ~3.0 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	--
PAHs	1 L amber	2	N	4°C	--
total metals	250 mL poly	1	N	HNO3	--
diss metals	250 mL poly	1	Y	HNO3	--
Cr6+	125 mL poly	1	Y	Cr6+ buffer	9.24

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-304

Site Location: Bangor, ME

Project No: R2022057.000 **Date:** 4/24/2024 **Time:** 1615

Personnel: JTW **Sample Method:** Low Flow/Peristaltic Pump

			At Start	At End
Depth to Water:	4.57'			
Total Depth:	38.13'	Sheen Observed:	No	No
Water Column:	33.56'	Odor Observed:	No	No
Depth Sampled:	30'	PID Screening:	0.0	0.0

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1528	**START PURGE**							
1533	4.59	170	7.3	6.47	172.8	4.93	209.4	36.0
1538	4.60	170	7.5	6.44	170.8	3.87	210.2	26.7
1543	4.60	170	7.5	6.43	170.2	3.81	210.3	27.2
1548	4.61	170	7.5	6.43	169.4	3.69	211.1	19.9
1553	4.61	180	7.6	6.42	168.6	3.62	212.3	15.8
1558	4.63	180	7.7	6.41	167.1	3.54	215.5	10.8
1603	4.63	180	7.8	6.41	167.1	3.53	216.1	9.23
1608	4.64	180	7.8	6.41	167.1	3.54	216.7	8.88
1613	4.63	180	7.8	6.40	167.1	3.53	216.5	8.65

Total Volume Purged: ~3.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	--
PAHs	1 L amber	2	N	4°C	--
total metals	250 mL poly	1	N	HNO3	--
diss metals	250 mL poly	1	Y	HNO3	--
Cr6+	125 mL poly	1	Y	Cr6+ buffer	9.33

QC Sample Collected?
Yes / No
ID: MS/MSD

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-305

Site Location: Bangor, ME

Project No: R2022057.000 **Date:** 4/24/2024 **Time:** 1114

Personnel: CEW **Sample Method:** Low Flow/Peristaltic Pump

			At Start	At End
Depth to Water:	2.43'	Sheen Observed:	No	No
Total Depth:	38.63'	Odor Observed:	slight organic	slight organic
Water Column:	36.20'	PID Screening:	0.0	0.0
Depth Sampled:	34'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1009	**START PURGE**							
1014	3.96	210	7.4	7.72	252.7	1.12	-141.1	88.3
1019	5.02	210	7.5	7.75	251.4	0.45	-157.3	91.1
1024	5.84	180	7.5	7.76	250.6	0.32	-163.3	104
1029	6.51	210	7.7	7.77	250.0	0.23	-167.4	77.5
1034	7.29	190	7.9	7.77	249.4	0.18	-170.1	70.0
1039	7.79	190	7.8	7.78	248.8	0.15	-171.4	52.0
1044	8.29	190	7.9	7.78	248.7	0.12	-172.6	44.5
1049	8.80	200	7.9	7.78	248.2	0.09	-173.1	39.6
1054	9.25	200	7.9	7.80	247.3	0.08	-173.4	38.6
1059	9.51	200	7.9	7.80	246.9	0.07	-173.5	30.9
1104	9.81	180	7.9	7.81	246.2	0.07	-172.8	29.1
1109	10.11	180	7.9	7.81	246.2	0.07	-172.7	27.4

Total Volume Purged: ~3.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	--
PAHs	1 L amber	2	N	4°C	--
total metals	250 mL poly	1	N	HNO3	--
diss metals	250 mL poly	1	Y	HNO3	--
Cr6+	125 mL poly	1	Y	Cr6+ buffer	9.39

QC Sample Collected?
Yes / No
ID: MS/MSD (all but filtered met)

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-306

Site Location: Bangor, ME

Project No: R2022057.000 **Date:** 4/24/2024 **Time:** 1525

Personnel: CEW **Sample Method:** Low Flow/Peristaltic Pump

			At Start	At End
Depth to Water:	4.43'			
Total Depth:	27.80'	Sheen Observed:	No	No
Water Column:	23.37'	Odor Observed:	No	No
Depth Sampled:	24'	PID Screening:	NA	NA

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1440	**START PURGE**							
1445	4.45	215	7.4	7.17	604	1.16	-96.4	266
1450	4.46	215	7.5	7.16	603	0.24	-101.1	85.4
1455	4.45	220	7.4	7.16	603	0.15	-102.3	34.8
1500	4.45	220	7.5	7.16	602	0.09	-103.2	21.5
1505	4.45	220	7.4	7.16	602	0.05	-104.1	12.9
1510	4.45	220	7.4	7.16	602	0.02	-104.3	11.6
1515	4.45	220	7.5	7.15	601	0.02	-104.3	9.29
1520	4.45	220	7.5	7.15	601	0.01	-104.3	6.12

Total Volume Purged: ~2.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	--
PAHs	1 L amber	2	N	4°C	--
total metals	250 mL poly	1	N	HNO3	--
diss metals	250 mL poly	1	Y	HNO3	--
Cr6+	125 mL poly	1	Y	Cr6+ buffer	9.12

QC Sample Collected?
Yes / No
ID: MS/MSD
(filtered metals only)

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-307
Site Location: Bangor, ME
Project No: R2022057.000 **Date:** 4/24/2024 **Time:** 1325
Personnel: CEW **Sample Method:** Low Flow/Peristaltic Pump

			At Start	At End
Depth to Water:	4.93'			
Total Depth:	34.45'	Sheen Observed:	No	No
Water Column:	29.52'	Odor Observed:	No	No
Depth Sampled:	29'	PID Screening:	NA	NA

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1225	**START PURGE**							
1230	4.94	200	7.9	7.37	597	0.97	-56.1	83.8
1235	4.94	200	7.9	7.47	599	0.32	-76.3	48.1
1240	4.94	210	7.8	7.54	593	0.31	-65.3	52.2
1245	4.94	210	7.7	7.63	594	0.22	-84.6	28.8
1250	4.94	200	7.8	7.54	596	0.15	-82.9	23.3
1255	4.95	190	7.8	7.47	598	0.10	-78.8	17.8
1300	4.95	190	7.9	7.43	599	0.08	-76.3	15.6
1305	4.95	180	7.9	7.39	600	0.05	-72.6	10.3
1310	4.95	180	7.8	7.38	601	0.04	-71.0	9.54
1315	4.95	200	7.9	7.37	602	0.03	-69.2	7.49
1320	4.95	200	7.9	7.36	601	0.03	-68.5	7.68

Total Volume Purged: ~2.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	6	N	HCl	--
PAHs	1 L amber	4	N	4°C	--
total metals	250 mL poly	2	N	HNO3	--
diss metals	250 mL poly	2	Y	HNO3	--
Cr6+	125 mL poly	2	Y	Cr6+ buffer	9.31

QC Sample Collected?
Yes / No
ID: DOW-GW-DUP1
pH = 9.32

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-308R

Site Location: Bangor, ME

Project No: R2022057.000 **Date:** 4/23/2024 **Time:** 1600

Personnel: JTW **Sample Method:** Low Flow/Peristaltic Pump

			At Start	At End
Depth to Water:	2.75'			
Total Depth:	36.10'	Sheen Observed:	No	No
Water Column:	33.35'	Odor Observed:	No	No
Depth Sampled:	28'	PID Screening:	NA	NA

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1425	5.11	170	8.3	8.51	232.0	0.95	-188.9	24.0
1430	5.72	115	8.7	8.51	231.4	0.50	-198.9	42.7
1435	6.41	115	8.9	8.47	230.8	0.39	-203.6	19.8
1440	7.76	130	8.8	8.45	229.3	0.40	-206.0	40.0
1445	7.95	130	8.8	8.45	229.9	0.47	-202.3	35.0
1450	8.45	90	8.9	8.46	230.0	0.48	-200.8	17.5
1455	9.13	90	8.8	8.46	229.8	0.48	-199.4	20.9
1500	8.76	90	8.7	8.45	229.3	0.49	-197.3	19.8
1505	10.55	90	8.7	8.45	229.6	0.51	-196.3	25.2
1510	10.91	90	8.5	8.44	229.3	0.54	-194.7	46.6
1515	11.28	90	8.7	8.43	229.3	0.57	-194.1	24.5
1520	12.14	90	8.5	8.43	229.5	0.64	-193.2	38.7
1525	12.69	90	8.5	8.41	229.1	0.67	-192.7	48.9
1530	13.11	90	8.4	8.40	228.7	0.78	-190.7	31.0
1535	13.95	90	8.3	8.39	228.6	0.91	-189.5	36.1
1540	14.52	95	8.3	8.37	228.4	1.03	-186.9	34.1
1545	14.56	95	8.3	8.37	227.9	1.14	-185.6	25.5
1550	16.21	95	8.3	8.36	227.8	1.17	-184.1	28.1
1555	16.39	95	8.3	8.36	227.9	1.19	-183.8	31.4

Total Volume Purged: ~3.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	--
PAHs	1 L amber	2	N	4°C	--
total metals	250 mL poly	1	N	HNO3	--
diss metals	250 mL poly	1	Y	HNO3	--
Cr6+	125 mL poly	1	Y	Cr6+ buffer	9.27

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-309

Site Location: Bangor, ME

Project No: R2022057.000 **Date:** 4/23/2024 **Time:** 1145

Personnel: CEW/DJB **Sample Method:** Low Flow/Peristaltic Pump

			At Start	At End
Depth to Water:	3.09'			
Total Depth:	57.85'	Sheen Observed:	No	No
Water Column:	54.76'	Odor Observed:	No	No
Depth Sampled:	53'	PID Screening:	NA	NA

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0944	3.42	140	7.7	7.83	414.5	2.40	-388.4	25.6
0949	3.44	180	7.8	7.66	436.4	0.48	-509.2	27.0
0954	3.45	180	7.8	7.61	453.0	0.32	-500.3	24.4
0959	3.44	190	7.8	7.59	464.2	0.25	-480.4	26.9
1004	3.44	150	7.8	7.59	464.8	0.23	-472.0	24.4
1009	3.44	140	7.8	7.59	466.0	0.20	-467.1	20.3
1014	3.44	140	7.9	7.59	467.0	0.18	-466.3	18.2
1019	3.44	140	7.9	7.59	466.6	0.17	-463.7	20.7
1024	3.44	140	7.9	7.59	467.1	0.16	-461.2	18.7
1029	3.44	140	7.9	7.59	465.9	0.15	-461.6	18.7
1034	3.44	160	7.9	7.59	466.7	0.14	-462.2	22.9
1039	3.44	160	8.0	7.60	466.2	0.13	-462.6	23.0
1044	3.44	160	8.0	7.60	465.7	0.13	-460.5	29.0
1049	3.45	140	8.0	7.60	465.5	0.12	-460.9	29.2
1054	3.46	140	8.0	7.60	465.5	0.12	-456.6	29.4
1059	3.46	150	8.1	7.61	464.4	0.11	-463.0	32.6
1104	3.47	150	8.1	7.61	463.1	0.11	-465.3	28.0
1109	3.48	180	8.2	7.62	462.5	0.10	-479.4	26.2
1114	3.47	160	8.2	7.60	463.3	0.11	-459.1	26.6

Total Volume Purged: ~5.0 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	--
PAHs	1 L amber	2	N	4°C	--
total metals	250 mL poly	1	N	HNO3	--
diss metals	250 mL poly	1	Y	HNO3	--
Cr6+	125 mL poly	1	Y	Cr6+ buffer	9.33

QC Sample Collected?
Yes / **No**
ID:

LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-309

Site Location: Bangor, ME **Date:** 4/23/2024

ADDITIONAL PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1119	3.47	130	8.1	7.58	462.6	0.10	-465.0	23.8
1124	3.46	130	8.1	7.58	461.2	0.10	-469.1	20.7
1129	3.46	140	8.1	7.56	458.6	0.09	-467.5	20.8
1134	3.47	140	8.1	7.57	458.8	0.09	-473.3	20.5
1139	3.48	140	8.1	7.59	459.1	0.09	-458.6	18.9

Total Volume Purged: ~5.0 gallons

NOTES:

Purge rate lowered at 1119

Final turbidity post-sampling = 17.1 NTU at 1200

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-310
Site Location: Bangor, ME
Project No: R2022057.000 **Date:** 4/23/2024 **Time:** 1435
Personnel: CEW **Sample Method:** Low Flow/Peristaltic Pump

			At Start	At End
Depth to Water:	2.14'			
Total Depth:	42.25'	Sheen Observed:	No	No
Water Column:	40.11'	Odor Observed:	No	No
Depth Sampled:	37'	PID Screening:	NA	NA

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1315	2.46	200	8.8	8.97	240.5	1.20	--	58.9
1320	2.48	200	8.9	8.76	257.1	0.47	-591.8	89.2
1325	2.49	200	8.8	8.24	296.5	0.47	-573.2	154
1330	2.51	200	8.9	8.88	246.6	0.62	-515.0	103
1335	2.51	210	9.0	8.11	305.1	0.25	-559.8	117
1340	2.52	210	9.0	8.05	310.8	0.15	-556.3	102
1345	2.53	210	8.9	8.05	310.7	0.12	-551.3	98.4
1350	2.54	210	8.8	8.05	311.1	0.10	-554.4	85.4
1355	2.54	220	8.8	8.04	311.2	0.10	-556.0	91.2
1400	2.54	220	8.6	8.04	311.9	0.08	-556.9	92.1
1405	2.54	200	8.7	8.04	311.7	0.08	-556.7	89.1
1410	2.54	200	8.6	8.03	312.4	0.07	-555.1	79.1
1415	2.52	190	8.6	8.04	312.0	0.07	-553.5	75.1
1420	2.53	190	8.5	8.04	311.5	0.08	-552.1	69.3
1425	2.53	210	8.5	8.05	309.2	0.08	-551.2	66.0
1430	2.53	200	8.5	8.05	310.1	0.08	-550.1	64.9

Total Volume Purged: ~4.0 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	--
PAHs	1 L amber	2	N	4°C	--
total metals	250 mL poly	1	N	HNO3	--
diss metals	250 mL poly	1	Y	HNO3	--
Cr6+	125 mL poly	1	Y	Cr6+ buffer	9.15

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-311

Site Location: Bangor, ME

Project No: R2022057.000 **Date:** 4/22/2024 **Time:** 1238

Personnel: JTW **Sample Method:** Low Flow/Peristaltic Pump

			At Start	At End
Depth to Water:	4.15'			
Total Depth:	21.75'	Sheen Observed:	No	No
Water Column:	17.60'	Odor Observed:	No	No
Depth Sampled:	18'	PID Screening:	NA	NA

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1110	4.18	150	6.0	7.20	565	1.38	-65.9	18.3
1115	4.18	150	5.9	7.22	566	0.55	-67.0	17.3
1120	4.19	160	5.9	7.22	567	0.40	-67.5	18.0
1125	4.19	160	5.8	7.22	567	0.37	-67.9	14.7
1130	4.19	170	5.9	7.22	566	0.33	-68.3	15.5
1135	4.19	170	5.9	7.22	567	0.23	-70.0	17.7
1140	4.19	170	6.0	7.22	567	0.16	-72.4	20.8
1145	4.20	170	6.0	7.22	567	0.12	-75.2	19.1
1150	4.20	180	6.0	7.22	567	0.10	-76.1	17.5
1155	4.20	180	6.1	7.22	567	0.09	-77.1	17.2
1200	4.20	220	6.2	7.22	568	0.09	-78.4	14.0
1205	4.20	220	6.2	7.22	567	0.08	-78.4	13.8
1210	4.20	210	6.1	7.24	567	0.07	-78.7	10.2
1215	4.20	210	6.2	7.22	568	0.06	-78.4	8.10
1220	4.20	200	6.2	7.21	568	0.05	-78.8	7.50
1225	4.20	200	6.4	7.21	568	0.06	-78.4	6.56
1230	4.20	160	6.4	7.20	568	0.05	-78.0	5.24
1235	4.20	160	6.5	7.20	570	0.05	-77.1	4.30

Total Volume Purged: ~4.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	--
PAHs	1 L amber	2	N	4°C	--
total metals	250 mL poly	1	N	HNO3	--
diss metals	250 mL poly	1	Y	HNO3	--
Cr6+	125 mL poly	1	Y	Cr6+ buffer	9.24

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-312

Site Location: Bangor, ME

Project No: R2022057.000 **Date:** 4/23/2024 **Time:** 1209

Personnel: JTW **Sample Method:** Low Flow/Peristaltic Pump

			At Start	At End
Depth to Water:	2.92'			
Total Depth:	42.95'	Sheen Observed:	No	No
Water Column:	40.03'	Odor Observed:	No	No
Depth Sampled:	35'	PID Screening:	NA	NA

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0950	4.35	120	7.8	9.50	585	0.89	16.2	7.90
0955	4.98	120	7.8	9.51	584	0.39	-68.6	6.49
1000	5.35	110	8.1	9.51	581	0.27	-127.1	13.9
1005	5.57	110	8.4	9.47	583	0.20	-178.6	4.41
1010	6.11	100	8.4	9.52	584	0.21	-198.2	17.6
1015	6.70	100	8.6	9.52	581	0.17	-196.4	41.3
1020	7.35	100	8.6	9.52	582	0.17	-200.2	4.72
1025	7.54	100	8.7	9.52	582	0.15	-202.9	5.17
1030	8.15	100	8.7	9.51	582	0.14	-205.4	4.31
1035	8.55	100	8.7	9.53	584	0.14	-203.6	38.6
1040	8.85	105	9.1	9.54	582	0.21	-194.9	13.7
1045	9.11	105	8.9	9.59	585	0.32	-165.3	4.66
1050	9.45	100	8.9	9.60	588	0.44	-152.9	4.60
1055	9.71	100	8.9	9.61	588	0.57	-143.4	5.12
1100	10.12	100	8.7	9.63	590	0.68	-132.8	48.6
1105	10.33	100	8.6	9.54	587	0.51	-141.0	5.95
1110	10.69	100	8.6	9.55	587	0.58	-133.5	4.71
1115	10.81	100	8.5	9.55	587	0.60	-130.4	15.8
1120	10.91	100	8.5	9.54	587	0.67	-122.5	7.05

Total Volume Purged: ~5.0 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	--
PAHs	1 L amber	2	N	4°C	--
total metals	250 mL poly	1	N	HNO3	--
diss metals	250 mL poly	1	Y	HNO3	--
Cr6+	125 mL poly	1	Y	Cr6+ buffer	9.22

QC Sample Collected?
Yes / **No**
ID:

LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-312

Site Location: Bangor, ME **Date:** 4/23/2024

ADDITIONAL PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH (S.U.)	Sp. Cond. (µS/cm2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1125	10.13	100	8.4	9.54	590	0.70	-118.2	38.4
1130	11.22	100	8.5	9.55	590	0.76	-117.7	14.7
1135	11.46	100	8.6	9.44	588	0.74	-123.0	9.46
1140	11.62	90	8.7	9.40	591	0.59	-144.2	13.2
1145	11.73	90	8.7	9.43	593	0.71	-140.6	16.7
1150	11.81	90	8.9	9.41	590	0.65	-142.3	45.1
1155	12.15	90	8.9	9.43	590	0.63	-142.6	17.9
1200	12.22	90	8.9	9.43	590	0.63	-145.0	17.1

Total Volume Purged: ~5.0 gallons

NOTES:

Final turbidity post-sampling = 25.2 NTU

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-3
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 6/26/2024 **Time:** 9:15
Personnel: TDS
Sample Method: Low Flow / Stress

			At Start	At End
Depth to Water:	6.30'			
Total Depth:	12.90'	Sheen Observed:	No	No
Water Column:	6.60'	Odor Observed:	No	No
Depth Sampled:	9'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
	START PURGE							
8:30	6.55	180	14.3	6.62	297.6	0.48	82.5	3.26
8:35	6.95	180	14.4	6.62	294.4	0.32	84.5	0.05
8:40	7.12	150	14.9	6.63	287.2	0.52	83.3	0.02
8:45	7.25	150	14.8	6.63	288.3	0.52	81.6	0.07
8:50	7.35	150	14.7	6.62	283.5	0.43	75.6	0.02
8:55	7.50	150	14.5	6.62	282.8	0.69	70.1	0.02
9:00	7.65	150	14.2	6.62	282.3	0.38	66.2	0.02
9:05	7.79	150	14.2	6.62	282.5	0.36	65.4	0.02
9:10	7.85	165	14.2	6.62	282.3	0.34	65.0	0.03

Total Volume Purged: ~2 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.55

QC Sample Collected?
Yes **/ No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-5
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 6/25/2024 **Time:** 15:26
Personnel: CEW/ARG
Sample Method: Low Flow / Stress

			At Start	At End
Depth to Water:	5.13			
Total Depth:	16.49	Sheen Observed:	No	No
Water Column:	11.36	Odor Observed:	No	No
Depth Sampled:	~13'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
14:41	**START PURGE**							
14:46	5.55	255	11.3	6.46	170.9	2.47	-50.2	4.0
14:51	5.55	255	11.5	6.46	167.6	2.30	-33.2	1.86
14:56	5.57	255	11.2	6.46	167.1	2.31	-28.9	1.74
15:01	5.62	255	11.2	6.46	165.7	2.19	-23.0	0.96
15:06	5.62	260	11.3	6.46	165.2	2.11	-20.7	0.87
15:11	5.64	265	11.2	6.46	164.3	2.11	-16.7	0.41
15:16	5.62	265	10.9	6.46	163.8	2.24	-15.8	0.02
15:21	5.62	265	10.9	6.46	164.0	2.27	-14.9	0.02

Total Volume Purged: ~3 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.67

QC Sample Collected?
Yes **/ No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-8
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 6/25/2024 **Time:** 14:02
Personnel: CEW/ARG
Sample Method: Low Flow / Stress

			At Start	At End
Depth to Water:	6.12			
Total Depth:	14.99	Sheen Observed:	No	No
Water Column:	8.87	Odor Observed:	No	No
Depth Sampled:	~13'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
13:22	**START PURGE**							
13:27	6.73	180	13.5	6.38	335.3	0.39	-74.3	2.82
13:32	6.59	210	14.5	6.41	338.5	3.09	-59.0	5.35
13:37	6.62	210	13.1	6.40	334.8	2.67	-62.2	3.33
13:42	6.70	210	13.0	6.40	335.2	2.62	-59.4	2.99
13:47	6.69	200	13.1	6.40	336.0	2.67	-56.3	1.87
13:52	6.81	200	12.9	6.40	336.4	2.76	-54.1	1.47
13:57	6.81	200	13.1	6.40	336.3	2.72	-52.0	0.59

Total Volume Purged: ~1.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.51

QC Sample Collected?
Yes **/ No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-20
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 6/26/2024 **Time:** 0921
Personnel: EBD
Sample Method: Low Flow / Stress

			At Start	At End
Depth to Water:	5.21			
Total Depth:	15.10	Sheen Observed:	No	No
Water Column:	9.89	Odor Observed:	No	No
Depth Sampled:	~13'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
8:39	**START PURGE**							
8:40	5.82	230	10.9	6.8	509.0	0.54	129.6	10.1
8:45	6.07	195	11.4	6.81	463.0	0.43	115.3	4.87
8:50	6.19	155	11.9	6.73	440.2	0.41	108.9	5.75
8:55	6.23	155	12.2	6.75	429.8	0.40	98.0	2.44
9:00	6.34	155	12.1	6.75	420.8	0.41	87.9	1.87
9:05	6.29	155	11.9	6.76	421.3	0.41	76.6	1.89
9:10	6.33	155	11.8	6.77	422.4	0.41	67.5	2.25
9:15	6.36	155	12.0	6.77	420.2	0.42	63.1	1.50
9:20	6.39	155	11.9	6.77	421.3	0.43	66.0	1.05

Total Volume Purged: ~2.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.55

QC Sample Collected?
Yes **/ No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-23

Site Location: Bangor, ME

Project Number: R2022057.000.012 **Date:** 6/25/2024 **Time:** 16:20

Personnel: TDS **Sample Method:** Low Flow / Stress

			At Start	At End
Depth to Water:	6.81			
Total Depth:	15.10	Sheen Observed:	No	No
Water Column:	8.29	Odor Observed:	No	No
Depth Sampled:	~12'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
15:09	**START PURGE**							
15:10	7.70	200	12.9	6.61	505.0	1.20	33.9	28.9
15:15	8.20	200	13.9	6.59	466.0	1.57	40.0	40.8
15:20	8.50	150	15.3	6.55	415.6	1.30	48.8	40.1
15:25	8.68	150	15.8	6.49	411.3	1.28	56.5	24.6
15:30	8.92	150	15.5	6.47	401.0	1.70	63.2	14.3
15:35	9.15	150	15.6	6.47	403.0	1.26	68.5	10.3
15:40	9.26	150	15.5	6.48	414.3	1.12	72.8	9.34
15:45	9.43	150	15.4	6.49	423.7	1.03	77.0	6.20
15:50	9.58	150	15.2	6.49	431.3	0.97	80.8	5.12
15:55	9.82	150	14.7	6.50	434.5	0.36	83.8	3.73
16:00	9.97	150	14.7	6.51	441.7	0.35	85.7	3.11
16:05	10.09	150	14.6	6.53	450.0	0.37	87.1	2.75
16:10	10.25	150	14.5	6.55	460.2	0.32	86.7	0.37
16:15	10.42	150	14.1	6.56	467.4	0.36	86.2	0.23
16:20	10.52	150	14.1	6.57	473.5	0.36	84.5	0.60

Total Volume Purged: ~2.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	9.38

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-301
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 6/26/2024 **Time:** 11:25
Personnel: TDS
Sample Method: Low Flow / Stress

			At Start	At End
Depth to Water:	4.27			
Total Depth:	43.00	Sheen Observed:	No	No
Water Column:	38.73	Odor Observed:	No	No
Depth Sampled:	~39'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
10:19	**START PURGE**							
10:20	4.51	200	14.5	6.82	324.1	1.01	81.1	11.2
10:25	4.57	200	12.9	6.88	322.0	0.55	75.2	2.59
10:30	4.60	208	12.6	6.93	320.6	0.56	70.2	2.66
10:35	4.62	208	12.6	6.94	319.4	0.50	65.4	4.66
10:40	4.62	208	12.5	6.92	319.2	0.50	63.4	1.33
10:45	4.62	208	12.6	6.91	318.1	0.50	58.3	3.14
10:50	4.62	204	12.3	6.93	319.4	0.50	54.3	0.62
10:55	4.62	204	12.4	6.94	320.9	0.55	52.3	0.07
11:00	4.62	204	12.4	6.94	319.9	0.67	50.4	1.40
11:05	4.62	204	12.6	6.93	315.8	0.56	48.7	1.32
11:10	4.62	204	14.9	6.92	309.2	0.49	48.9	0.02
11:15	4.62	204	15.0	6.91	315.6	0.50	50.3	0.02
11:20	4.62	204	15.1	6.91	316.9	0.51	51.3	0.02

Total Volume Purged: ~3 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.02

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-302
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 6/26/2024 **Time:** 12:35
Personnel: CEW/ARG
Sample Method: Low Flow / Stress

			At Start	At End
Depth to Water:	2.98			
Total Depth:	29.00	Sheen Observed:	No	No
Water Column:	26.02	Odor Observed:	No	No
Depth Sampled:	~26'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
11:50	**START PURGE**							
11:55	3.34	300	13.7	9.51	444.4	3.12	-17.7	10.1
12:00	3.36	300	13.6	8.70	436.3	0.49	-49.2	6.87
12:05	3.35	300	13.5	8.12	440.9	0.44	-55.4	4.32
12:10	3.38	320	13.4	8.11	443.8	0.50	-60.2	4.12
12:15	3.40	350	13.1	7.97	450.2	0.62	-57.5	4.07
12:20	3.40	320	13.2	7.91	460.1	0.56	-54.1	2.75
12:25	3.40	320	13.1	7.83	471.5	0.50	-49.5	4.15
12:30	3.39	320	13.0	7.80	478.9	0.45	-45.7	2.54

Total Volume Purged: ~3 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.55

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-303
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 6/26/2024 **Time:** 9:00
Personnel: ARG/CEW
Sample Method: Low Flow / Stress

			At Start	At End
Depth to Water:	3.62			
Total Depth:	22.74	Sheen Observed:	No	No
Water Column:	19.12	Odor Observed:	No	No
Depth Sampled:	~20'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
8:15	**START PURGE**							
8:20	3.66	290	12.8	7.17	588.7	0.36	-83.6	74.5
8:25	3.68	290	12.5	7.16	587.0	0.26	-82.7	76.9
8:30	3.68	290	12.6	7.14	583.2	0.23	-82.7	54.5
8:35	3.69	280	12.7	7.13	581.7	0.01	-84.0	30.6
8:40	3.69	270	12.7	7.13	580.1	0.34	-85.5	18.0
8:45	3.69	270	12.7	7.12	581.6	0.14	-84.2	13.0
8:50	3.69	270	12.9	7.12	581.0	0.13	-83.7	8.00
8:55	3.69	270	12.7	7.12	582.2	0.12	-80.4	6.92

Total Volume Purged: ~3 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.32

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-304

Site Location: Bangor, ME

Project Number: R2022057.000.012 **Date:** 6/25/2024 **Time:** 11:54

Personnel: CEW/ARG **Sample Method:** Low Flow / Stress

			At Start	At End
Depth to Water:	5.66	Sheen Observed:	No	No
Total Depth:	37.95	Odor Observed:	No	No
Water Column:	32.29			
Depth Sampled:	~32'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
11:09	**START PURGE**							
11:14	5.45	170	16.3	6.57	166.5	3.83	-48.5	19.6
11:19	5.70	170	13.3	6.58	158.8	2.88	-46.3	12.9
11:24	5.64	170	12.8	6.55	157.8	2.86	-41.7	12.0
11:29	5.68	170	12.7	6.58	156.8	2.80	-38.4	10.7
11:34	5.70	210	12.7	6.58	156.5	2.85	-33.1	7.03
11:39	5.70	230	12.0	6.57	156.0	3.21	-29.5	5.75
11:44	5.70	200	12.5	6.57	154.4	3.24	-29.6	5.85
11:49	5.70	200	12.5	6.56	153.7	3.24	-26.6	4.35

Total Volume Purged: ~2 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	9	N	HCl	
PAHs	1 L amber	6	N	4° C	
total metals	250 mL poly	3	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	3	Y	Cr6 Buffer	8.94

QC Sample Collected?

Yes / No

ID: MS at 1155 (pH 8.72)

MSD at 1156 (pH 8.50)

*total metals only

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-305
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 6/26/2024 **Time:** 13:40
Personnel: ARG/CEW
Sample Method: Low Flow / Stress

			At Start	At End
Depth to Water:	2.85			
Total Depth:	38.85	Sheen Observed:	No	No
Water Column:	36.00	Odor Observed:	No	No
Depth Sampled:	~33'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
12:39	**START PURGE**							
12:40	3.90	220	14.0	7.77	267.0	2.31	-51.0	50.4
12:45	6.00	220	11.5	7.88	251.3	0.23	-135.1	33.1
12:50	6.72	220	11.3	7.89	250.2	0.17	-143.2	28.5
12:55	8.19	220	10.8	7.89	248.1	0.16	-145.2	29.7
13:00	9.35	220	10.7	7.89	284.2	0.15	-146.4	22.9
13:05	10.70	216	10.4	7.88	246.2	0.16	-148.3	23.6
13:10	11.25	216	10.4	7.90	245.8	0.16	-150.2	15.1
13:15	11.85	216	10.2	7.91	244.8	0.17	-149.9	14.4
13:20	12.25	216	10.2	7.93	244.0	0.17	-151.9	11.9
13:25	12.95	216	10.1	7.93	242.8	0.18	-151.9	12.4
13:30	13.25	216	9.8	7.92	243.2	0.18	-151.1	12.2
13:35	13.90	216	9.8	7.92	243.8	0.18	-150.8	12.8

Total Volume Purged: ~4 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.00

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-306
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 6/26/2024 **Time:** 13:20
Personnel: EBD
Sample Method: Low Flow / Stress

			At Start	At End
Depth to Water:	4.63			
Total Depth:	28.00	Sheen Observed:	No	No
Water Column:	23.37	Odor Observed:	No	No
Depth Sampled:	~25'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
12:39	**START PURGE**							
12:40	4.65	160	12.9	7.16	577	0.51	-41.7	27.4
12:45	4.65	160	12.5	7.18	575	0.40	-50.9	32.9
12:50	4.65	170	12.3	7.17	576	0.39	-52.2	26.8
12:55	4.65	170	11.8	7.16	575	0.37	-52.1	23.2
13:00	4.66	180	11.7	7.16	572	0.32	-52.2	13.7
13:05	4.66	180	11.5	7.16	574	0.31	-52.9	8.23
13:10	4.67	180	11.5	7.17	574	0.31	-53.1	8.82
13:15	4.67	180	11.4	7.17	575	0.29	-53.0	8.74

Total Volume Purged: ~2 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	3	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.79

QC Sample Collected?
Yes / No
ID: MS at 1321
MSD at 1322
*diss metals only

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-307
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 6/26/2024 **Time:** 11:06
Personnel: EBD
Sample Method: Low Flow / Stress

			At Start	At End
Depth to Water:	5.08	Sheen Observed:	No	No
Total Depth:	34.90	Odor Observed:	No	No
Water Column:	29.82			
Depth Sampled:	~29'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
10:29	**START PURGE**							
10:30	5.09	130	24.1	9.29	302	6.59	-12.4	13.9
10:35	5.10	130	14.9	7.29	590	1.03	-14.4	6.04
10:40	5.11	130	14.3	7.35	597	0.61	-29.0	11.4
10:45	5.11	140	14.1	7.38	587	0.45	-35.6	11.9
10:50	5.12	150	13.9	7.39	589	0.42	-35.9	9.79
10:55	5.12	145	13.9	7.40	590	0.39	-33.8	8.16
11:00	5.12	145	13.5	7.39	596	0.40	-32.1	6.77
11:05	5.12	145	13.8	7.39	590	0.39	-31.6	4.95

Total Volume Purged: ~2 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	6	N	HCl	
PAHs	1 L amber	4	N	4° C	
total metals	250 mL poly	2	N	HNO3	
diss metals	250 mL poly	2	Y	HNO3	
Cr6+	125 mL poly	2	Y	Cr6 Buffer	8.53

QC Sample Collected?
Yes / No
ID: DOW-GW-DUP2
@0800
pH = 8.70 (Cr6+)

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-308R
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 6/25/2024 **Time:** 14:36
Personnel: EBD
Sample Method: Low Flow / Stress

			At Start	At End
Depth to Water:	2.86			
Total Depth:	36.05	Sheen Observed:	No	No
Water Column:	33.19	Odor Observed:	No	No
Depth Sampled:	~31'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
13:44	**START PURGE**							
13:45	3.63	145	14.7	8.34	248.2	5.34	-115.7	13.6
13:50	4.50	112	15.2	8.08	230.5	2.51	-107.0	14.1
13:55	5.35	112	15.7	8.09	222.5	1.50	-106.4	15.9
14:00	6.19	112	14.7	8.05	220.5	0.82	-105.3	15.8
14:05	7.16	130	14.2	8.04	219.1	0.71	-107.6	15.5
14:10	8.10	140	13.5	8.04	217.6	0.57	-111.3	13.5
14:15	8.78	100	14.4	8.04	214.7	0.52	-115.4	15.4
14:20	9.48	100	14.9	8.07	217.6	0.52	-121.6	19.5
14:25	10.22	105	14.6	8.04	215.4	0.51	-129.4	15.1
14:30	10.89	105	14.1	8.03	216.4	0.51	-130.3	14.4
14:35	11.45	105	14.4	8.04	215.7	0.49	-134.0	14.1

Total Volume Purged: ~1.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.72

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-309
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 6/25/2024 **Time:** 9:45
Personnel: TDS
Sample Method: Low Flow / Stress

			At Start	At End
Depth to Water:	3.28			
Total Depth:	58.25	Sheen Observed:	No	No
Water Column:	54.97	Odor Observed:	No	No
Depth Sampled:	~50'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
9:00	**START PURGE**							
9:05	3.58	150	11.3	8.60	270.2	1.01	-126.9	16.5
9:10	3.58	150	11.5	8.49	270.3	0.62	-163.5	19.2
9:15	3.58	150	11.4	8.29	272.0	0.54	-174.8	26.1
9:20	3.58	150	11.3	8.16	274.3	0.51	-181.2	26.5
9:25	3.58	150	11.2	8.12	274.4	0.47	-194.6	26.5
9:30	3.58	150	11.2	8.11	274.3	0.43	-204.6	27.2
9:35	3.58	150	11.2	8.10	275.4	0.44	-213.2	26.0
9:40	3.58	150	11.4	8.10	276.2	0.46	-224.2	24.9

Total Volume Purged: ~1.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	6	N	HCl	
PAHs	1 L amber	4	N	4° C	
total metals	250 mL poly	2	N	HNO3	
diss metals	250 mL poly	2	Y	HNO3	
Cr6+	125 mL poly	2	Y	Cr6 Buffer	9.18

QC Sample Collected?
Yes **/ No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-310
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 6/25/2024 **Time:** 12:50
Personnel: TDS
Sample Method: Low Flow / Stress

			At Start	At End
Depth to Water:	2.32			
Total Depth:	58.25	Sheen Observed:	No	No
Water Column:	55.93	Odor Observed:	No	No
Depth Sampled:	~50'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
12:04	**START PURGE**							
12:05	2.81	150	12.5	8.93	196.0	0.50	-250.1	35.8
12:10	2.81	150	13.7	8.94	193.0	0.30	-283.1	40.1
12:15	2.81	150	13.9	8.93	193.5	0.30	-301.8	40.5
12:20	2.82	150	13.3	8.93	191.3	0.32	-313.8	41.3
12:25	2.82	150	13.1	8.93	192.2	0.33	-348.0	40.2
12:30	2.82	150	13.6	8.92	190.2	0.30	-332.5	40.5
12:35	2.82	150	14.7	8.90	190.9	0.37	-338.3	44.0
12:40	2.82	150	14.1	8.91	190.7	0.30	-339.4	48.0
12:45	2.82	150	13.8	8.91	189.2	0.32	-343.8	48.0
12:50	2.82	150	14.2	8.91	188.6	0.32	-352.1	47.6

Total Volume Purged: ~1.75 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	9.44

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-311
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 6/26/2024 **Time:** 10:52
Personnel: ARG/CEW
Sample Method: Low Flow / Stress

			At Start	At End
Depth to Water:	4.37			
Total Depth:	21.85	Sheen Observed:	No	No
Water Column:	17.48	Odor Observed:	No	No
Depth Sampled:	~18'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
10:12	**START PURGE**							
10:17	4.44	280	12.2	7.17	560.2	0.15	-88.3	33.3
10:22	4.44	230	12.1	7.19	562.1	0.11	-82.3	65.4
10:27	4.44	240	12.3	7.18	563.7	0.10	-74.8	105
10:32	4.44	240	12.2	7.18	568.1	0.08	-71.0	35.5
10:37	4.44	240	12.0	7.18	569.3	0.08	-66.5	15.2
10:42	4.44	240	12.3	7.18	567.1	0.08	-64.9	6.56
10:47	4.44	250	12.4	7.18	568.2	0.08	-62.6	4.62

Total Volume Purged: ~2 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.62

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-312R

Site Location: Bangor, ME

Project Number: R2022057.000.012 **Date:** 6/25/2024 **Time:** 10:21

Personnel: EBD **Sample Method:** Low Flow / Stress

			At Start	At End
Depth to Water:	2.95			
Total Depth:	42.49	Sheen Observed:	No	No
Water Column:	39.54	Odor Observed:	No	No
Depth Sampled:	~39'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
9:09	**START PURGE**							
9:10	3.63	180	12.3	9.63	575	4.76	-52.9	10.8
9:15	4.39	180	11.4	9.60	554	2.98	-64.4	9.32
9:20	5.04	180	11.4	9.60	550	2.94	-69.0	8.70
9:25	6.06	175	11.1	9.63	548	2.35	-76.8	21.1
9:30	7.01	175	10.7	9.64	548	1.85	-80.2	8.22
9:35	7.98	175	10.8	9.67	548	1.80	-85.0	8.25
9:40	8.83	170	10.6	9.71	547	1.70	-87.6	8.27
9:45	9.65	170	10.6	9.77	550	1.32	-89.8	19.9
9:50	10.54	200	10.2	9.78	551	0.92	-90.7	24.5
9:55	11.25	195	10.0	9.76	554	0.79	-91.4	26.4
10:00	12.02	190	10.3	9.75	554	0.68	-94.1	7.54
10:05	12.85	190	10.3	9.71	551	0.60	-96.2	7.38
10:10	13.74	190	10.1	9.69	554	0.55	-99.1	7.00
10:15	14.22	185	10.2	9.67	551	0.51	-99.9	7.66
10:20	14.90	185	10.3	9.66	555	0.50	-99.8	7.12

Total Volume Purged: ~3 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	6	N	HCl	
PAHs	1 L amber	4	N	4° C	
total metals	250 mL poly	2	N	HNO3	
diss metals	250 mL poly	2	Y	HNO3	
Cr6+	125 mL poly	2	Y	Cr6 Buffer	9.00

QC Sample Collected?
Yes **/ No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-3

Site Location: Bangor, ME

Project Number: R2022057.000.012 **Date:** 9/16/2024 **Time:** 1515

Personnel: TDS **Sample Method:** Peristaltic Pump

		At Start	At End
Depth to Water:	7.05'		
Total Depth:	12.97'	Sheen Observed: No	No
Water Column:	5.92'	Odor Observed: No	No
Depth Sampled:	~11'		

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
	START PURGE							
14:15	7.05	200	16.71	6.51	268	0.86	136.1	2.35
14:20	7.90	200	17.01	6.39	263	1.44	132.8	2.16
14:25	8.22	200	16.86	6.38	278	0.31	24.5	2.84
14:30	8.45	200	16.95	6.40	280	0.40	28.7	2.88
14:35	8.52	200	16.76	6.42	280	1.25	30.9	0.53
14:40	8.66	200	16.7	6.44	283	0.28	27.1	1.18
14:45	8.80	200	16.52	6.45	285	0.18	28.2	0.02
14:50	8.98	200	16.57	6.47	286	0.14	28.9	0.02
14:55	9.19	200	16.45	6.48	288	0.11	35.7	0.02
15:00	9.30	200	16.40	6.48	290	0.09	38.8	0.02
15:05	9.45	200	16.35	6.50	291	0.08	40.3	0.02
15:10	9.88	200	16.30	6.51	293	0.08	41.5	0.02

Total Volume Purged: ~2.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.5

QC Sample Collected?
Yes **/ No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-5

Site Location: Bangor, ME

Project Number: R2022057.000.012 **Date:** 9/16/2024 **Time:** 1421

Personnel: AHG **Sample Method:** Low Flow / Stress

		At Start	At End
Depth to Water:	7.53'		
Total Depth:	15.32'	Sheen Observed: No	No
Water Column:	7.79'	Odor Observed: No	No
Depth Sampled:	~13'		

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1329	**START PURGE**							
1330	7.55	200	14.97	6.16	169	14.02	70.2	12.6
1335	7.55	200	15.47	6.19	166	10.63	71.3	12.0
1340	7.57	180	14.65	6.27	168	8.48	54.1	11.3
1345	7.58	180	14.70	6.29	170	7.97	38.6	11.0
1350	7.59	180	14.51	6.27	168	7.72	36.6	4.11
1400	7.60	180	13.93	6.26	165	4.92	46.6	3.62
1405	7.60	180	13.72	6.27	164	4.96	47.0	3.04
1410	7.60	160	13.68	6.27	163	4.99	47.8	2.47
1415	7.60	160	13.71	6.27	163	4.86	47.7	1.34
1420	7.60	160	13.74	6.28	165	4.75	47.4	0.96

Total Volume Purged: ~2.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.51

QC Sample Collected?
Yes **/ No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-8
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 9/16/2024 **Time:** 1241
Personnel: AHG
Sample Method: Low Flow / Stress

		At Start	At End
Depth to Water:	8.04'		
Total Depth:	15.02'	Sheen Observed: No	No
Water Column:	6.98'	Odor Observed: No	No
Depth Sampled:	~13'		

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm²)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1149	START PURGE							
1150	8.62	200	19.91	6.57	429	3.57	-53.6	8.94
1155	8.68	200	17.18	6.37	419	2.26	-142.0	8.06
1200	8.73	200	16.55	6.33	416	1.50	-136.9	7.41
1205	8.76	200	16.35	6.32	410	1.34	-130.6	6.67
1210	8.80	200	16.17	6.31	403	1.31	-116.0	6.22
1215	8.85	200	16.93	6.29	392	7.13	-55.1	6.30
1220	8.89	200	17.05	6.29	387	7.25	-47.4	5.05
1225	8.93	190	17.08	6.30	388	7.29	-45.1	4.76
1230	8.95	190	17.15	6.30	387	7.34	-42.7	1.40
1235	8.97	190	17.12	6.30	388	7.41	-40.9	1.02
1240	8.99	190	17.07	6.30	387	7.45	-38.5	0.93

Total Volume Purged: ~2.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.51

QC Sample Collected?
Yes **/ No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-20
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 9/17/2024 **Time:** 1250
Personnel: CEW
Sample Method: Peristaltic Pump

			At Start	At End
Depth to Water:	6.90'			
Total Depth:	15.19'	Sheen Observed:	No	No
Water Column:	8.29'	Odor Observed:	No	No
Depth Sampled:	~13'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1149	**START PURGE**							
1154	7.20	150	14.75	6.54	447	0.34	86.4	17.9
1159	7.34	140	14.91	6.61	432	0.20	78.1	13.5
1204	7.59	140	15.26	6.63	426	0.27	93.3	20.4
1209	7.65	140	15.11	6.63	428	0.30	89.4	21.5
1214	7.75	140	15.09	6.63	436	0.33	45.0	13.7
1219	7.85	130	15.02	6.64	443	0.24	5.3	9.67
1224	7.95	130	14.97	6.66	450	0.22	-14.4	7.20
1229	8.03	130	15.06	6.67	454	0.19	-23.1	6.34
1234	8.10	130	14.99	6.68	457	0.16	-32.2	4.87
1239	8.18	120	14.98	6.70	463	0.14	-39.0	4.16
1244	8.24	120	14.83	6.71	463	0.14	-40.3	2.97
1249	8.30	120	14.90	6.71	464	0.13	-41.8	2.78

Total Volume Purged: ~2.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.81

QC Sample Collected?
Yes **/ No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-23

Site Location: Bangor, ME

Project Number: R2022057.000.012 **Date:** 9/17/2024 **Time:** 1021

Personnel: CEW **Sample Method:** Low Flow / Stress

			At Start	At End
Depth to Water:	7.74'			
Total Depth:	15.14'	Sheen Observed:	No	No
Water Column:	7.40'	Odor Observed:	No	No
Depth Sampled:	~14'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0945	**START PURGE**							
0950	8.39	150	14.51	6.66	682	0.79	97.5	4.55
0955	8.59	140	14.97	6.58	570	0.49	100.6	4.71
1000	8.84	140	15.2	6.49	518	0.46	108.2	5.39
1005	9.10	150	15.33	6.45	509	0.35	105.0	7.42
1010	9.43	150	15.39	6.44	502	0.29	103.1	6.45
1015	9.73	150	15.32	6.43	499	0.33	106.5	7.11
1020	9.97	155	15.47	6.44	503	0.34	107.8	4.80

Total Volume Purged: ~2 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.50

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-301
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 9/17/2024 **Time:** 1421
Personnel: AHG
Sample Method: Low Flow / Stress

		At Start	At End
Depth to Water:	6.80'		
Total Depth:	43.14'	Sheen Observed: No	No
Water Column:	36.34'	Odor Observed: No	No
Depth Sampled:	~40'		

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1334	**START PURGE**							
1335	6.96	200	14.09	6.75	360	1.81	8.4	2.14
1340	6.97	180	14.08	6.70	360	1.10	7.7	2.93
1345	6.98	180	14.42	6.68	357	0.75	6.2	4.34
1350	6.99	180	14.35	6.64	357	0.81	4.5	1.67
1355	7.00	160	14.33	6.63	356	0.86	3.6	0.91
1400	7.01	160	14.19	6.34	354	0.77	5.2	0.02
1405	7.01	170	14.13	6.37	354	0.78	8.7	0.02
1410	7.01	170	14.06	6.40	353	0.78	6.9	0.02
1415	7.01	170	14.02	6.42	354	0.77	5.3	0.02
1420	7.01	170	13.98	6.44	351	0.78	4.9	0.02

Total Volume Purged: ~2 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	9	N	HCl	
PAHs	1 L amber	6	N	4° C	
total metals	250 mL poly	3	N	HNO3	
diss metals	250 mL poly	3	Y	HNO3	
Cr6+	125 mL poly	3	Y	Cr6 Buffer	8.65

QC Sample Collected?
Yes / No
ID: MS at 1422 (pH 8.84)
MSD at 1423 (pH 8.76)

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-302

Site Location: Bangor, ME

Project Number: R2022057.000.012 **Date:** 9/18/2024 **Time:** 1025

Personnel: TDS **Sample Method:** Peristaltic Pump

		At Start	At End
Depth to Water:	4.64'		
Total Depth:	28.72'	Sheen Observed: No	No
Water Column:	24.08'	Odor Observed: No	No
Depth Sampled:	~28'		

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0924	**START PURGE**							
0925	4.94	170	16.22	9.22	619	0.60	128.0	17.3
0930	4.94	170	15.22	9.44	529	0.09	58.0	17.5
0935	4.96	180	15.08	8.16	510	0.06	-173.7	41.6
0940	4.96	180	14.95	7.76	512	0.05	-173.5	32.2
0945	4.98	190	14.84	7.71	511	0.07	-174.7	27.4
0950	4.98	190	14.78	7.64	515	0.85	-177.2	19.7
0955	4.98	190	15.02	7.61	517	0.86	-176.7	16.0
1000	4.98	190	14.94	7.59	519	0.68	-174.6	15.2
1005	4.98	190	15.09	7.55	521	0.61	-173.1	10.3
1010	4.98	190	15.13	7.54	526	0.59	-171.3	8.17
1015	4.98	190	15.13	7.54	525	0.56	-169.9	7.63
1020	4.98	190	15.20	7.53	526	0.54	-168.2	7.48

Total Volume Purged: ~3 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.55

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-303
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 9/17/2024 **Time:** 1446
Personnel: CEW
Sample Method: Peristaltic Pump

			At Start	At End
Depth to Water:	5.35'			
Total Depth:	21.93'	Sheen Observed:	No	No
Water Column:	16.58'	Odor Observed:	No	No
Depth Sampled:	~19'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1405	**START PURGE**							
1410	5.42	170	14.18	6.82	589	0.22	-130.6	168
1415	5.47	170	14.15	7.10	588	0.10	-142.4	23.1
1420	5.42	180	14.22	7.09	584	0.08	-149.6	19.5
1425	5.42	170	14.33	7.09	585	0.07	-156.2	12.9
1430	5.38	170	14.30	7.09	585	0.06	-161.5	8.91
1435	5.38	170	13.81	7.08	584	0.06	-163.0	9.55
1440	5.38	170	14.18	7.09	585	0.06	-166.4	8.10
1445	5.38	170	13.86	7.10	586	0.07	-167.6	7.28

Total Volume Purged: ~3 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	6	N	HCl	
PAHs	1 L amber	4	N	4° C	
total metals	250 mL poly	2	N	HNO3	
diss metals	250 mL poly	2	Y	HNO3	
Cr6+	125 mL poly	2	Y	Cr6 Buffer	8.68

QC Sample Collected?
Yes / No
ID: DOW-GW-DUP3
pH = 8.65 (Cr6+)

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-304

Site Location: Bangor, ME

Project Number: R2022057.000.012 **Date:** 9/16/2024 **Time:** 1145

Personnel: TDS **Sample Method:** Peristaltic Pump

		At Start	At End
Depth to Water:	8.04'		
Total Depth:	37.53'	Sheen Observed:	No	No
Water Column:	29.49'	Odor Observed:	No	No
Depth Sampled:	~35'		

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1154	**START PURGE**							
1155	8.04	150	14.62	6.54	140	11.84	102.8	9.03
1200	8.06	150	14.16	6.42	139	11.18	115.6	9.64
1205	8.12	150	13.62	6.33	138	10.58	127.3	7.95
1210	8.14	150	13.63	6.32	138	10.29	128.3	6.56
1215	8.14	150	13.34	6.35	137	10.02	128.2	4.77
1220	8.14	150	13.12	6.35	136	9.73	127.8	3.94
1225	8.14	150	12.96	6.36	135	9.37	126.1	3.31
1230	8.14	150	12.74	6.38	133	8.92	123.6	1.92
1235	8.14	150	12.66	6.39	133	8.88	123.0	1.72
1240	8.14	150	12.62	6.40	133	8.77	122.4	1.55

Total Volume Purged: ~2.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.50

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-305
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 9/17/2024 **Time:** 1505
Personnel: TDS
Sample Method: Peristaltic Pump

		At Start	At End
Depth to Water:	5.63'		
Total Depth:	38.58'	Sheen Observed: No	No
Water Column:	32.95'	Odor Observed: No	Yes
Depth Sampled:	~30'		

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
	START PURGE							
1410	5.63	180	13.69	7.73	293	0.12	-177.5	20.2
1415	6.21	180	13.60	7.74	293	0.09	-184.6	16.4
1420	6.75	180	13.48	7.76	292	0.07	-187.8	12.6
1425	8.34	190	13.08	7.80	292	0.07	-192.4	15.3
1430	8.95	200	13.13	7.82	292	0.13	-192.2	15.1
1435	9.38	200	12.86	7.81	289	0.17	-190.2	14.9
1440	10.12	200	12.69	7.83	288	0.21	-190.5	13.5
1445	10.47	200	12.53	7.80	287	0.19	-193.3	14.6
1450	10.88	200	12.36	7.79	287	0.25	-193.8	14.8
1455	11.21	200	12.41	7.77	287	0.27	-193.6	15.2
1500	11.73	200	12.05	7.77	285	0.25	-195.6	15.1

Total Volume Purged: ~3 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.62

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-306
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 9/18/2024 **Time:** 1021
Personnel: AHG
Sample Method: Low Flow / Stress

		At Start	At End
Depth to Water:	6.32'		
Total Depth:	28.00'	Sheen Observed: No	No
Water Column:	21.68'	Odor Observed: No	No
Depth Sampled:	~25'		

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0924	**START PURGE**							
0925	6.42	200	14.83	7.09	710	10.77	-83.6	30.4
0930	6.34	190	13.03	7.06	676	9.71	-87.3	17.8
0935	6.35	190	13.34	7.05	676	7.06	-87.5	11.0
0940	6.35	190	12.90	7.04	674	6.19	-88.2	8.12
0945	6.35	190	12.90	7.04	674	6.44	-88.4	4.20
0950	6.35	190	12.68	6.99	674	6.05	-87.8	2.26
0955	6.35	190	12.61	6.98	673	5.74	-87.2	1.55
1000	6.35	190	12.64	6.98	673	5.62	-87.3	0.49
1005	6.35	190	12.57	6.98	672	4.86	-87.2	0.33
1010	6.35	190	12.59	6.97	672	4.70	-87.2	0.02
1015	6.35	190	12.46	6.97	671	4.40	-87.3	0.02
1020	6.35	190	12.43	6.97	670	4.19	-87.2	0.02

Total Volume Purged: ~3 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	9.43

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-307
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 9/18/2024 **Time:** 1216
Personnel: AHG
Sample Method: Low Flow / Stress

		At Start	At End
Depth to Water:	6.82'		
Total Depth:	34.90'	Sheen Observed:	No	No
Water Column:	28.08'	Odor Observed:	Yes	Yes
Depth Sampled:	~29'		

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1119	**START PURGE**							
1120	6.86	180	12.71	8.13	679	2.61	-86.2	4.68
1125	6.87	180	12.65	7.48	676	1.35	-90.7	2.44
1130	6.89	170	12.59	7.36	675	0.40	-93.5	1.91
1135	6.90	170	13.61	7.44	675	0.81	-97.1	1.86
1140	6.91	170	13.38	7.45	676	0.84	-95.5	2.95
1145	6.92	180	13.15	7.43	676	0.84	-89.6	3.06
1150	6.93	180	13.02	7.39	676	0.93	-81.4	2.71
1155	6.94	180	12.84	7.37	676	1.04	-77.2	1.94
1200	6.94	180	12.77	7.36	676	1.11	-73.0	2.56
1205	6.94	180	12.86	7.34	677	1.18	-70.2	1.64
1210	6.95	180	12.96	7.35	676	1.24	-67.8	2.50
1215	6.95	180	13.05	7.34	677	1.27	-65.6	2.88

Total Volume Purged: ~3 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.53

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-308R
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 9/17/2024 **Time:** 1240
Personnel: TDS
Sample Method: Low Flow / Stress

		At Start	At End
Depth to Water:	5.29'		
Total Depth:	35.81'	Sheen Observed: No	No
Water Column:	30.52'	Odor Observed: No	No
Depth Sampled:	~33'		

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
	START PURGE							
1150	5.29	160	15.04	7.61	258	2.67	-212.1	9.03
1155	6.51	160	14.18	7.68	254	1.54	-234.6	9.88
1200	7.50	160	14.38	7.69	253	1.48	-242.2	9.76
1205	8.61	120	15.63	7.72	251	1.39	-246.2	13.28
1210	9.26	120	15.23	7.73	250	1.38	-252.0	16.29
1215	9.82	120	15.18	7.72	249	1.35	-253.3	9.80
1220	10.64	120	14.49	7.71	248	1.28	-254.4	7.89
1225	11.27	120	14.85	7.70	247	1.16	-256.2	7.67
1230	11.84	120	15.02	7.71	246	1.09	-257.8	8.28
1235	12.98	120	14.88	7.71	246	1.04	-259.4	8.84

Total Volume Purged: ~2 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	9	N	HCl	
PAHs	1 L amber	6	N	4° C	
total metals	250 mL poly	3	N	HNO3	
diss metals	250 mL poly	3	Y	HNO3	
Cr6+	125 mL poly	3	Y	Cr6 Buffer	8.53

QC Sample Collected?
Yes / No
ID: MS at 1241
MSD at 1242

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-309
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 9/17/2024 **Time:** 1011
Personnel: AHG
Sample Method: Low Flow / Stress

			At Start	At End
Depth to Water:	4.92'			
Total Depth:	57.84'	Sheen Observed:	No	No
Water Column:	52.92'	Odor Observed:	No	Yes
Depth Sampled:	~55'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0924	**START PURGE**							
0925	5.46	250	12.89	8.63	172	0.71	141.7	14.6
0930	5.49	230	13.05	8.68	167	0.33	-27.2	12.2
0935	5.50	200	12.61	8.70	167	0.28	-91.7	10.4
0940	5.50	200	12.77	8.71	167	0.26	-125.1	9.59
0945	5.51	200	12.69	8.70	168	0.25	-149.9	9.09
0950	5.51	180	12.68	8.70	167	0.23	-160.4	8.20
0955	5.52	180	12.68	8.71	168	0.22	-177.8	9.63
1000	5.52	180	12.70	8.71	170	0.20	-203.3	9.24
1005	5.52	180	12.76	8.73	173	0.19	-221.4	8.78
1010	5.52	180	12.73	8.72	168	0.18	-235.7	9.45

Total Volume Purged: ~2 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.76

QC Sample Collected?
Yes **/ No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS
Location ID: MW-310
Site Location: Bangor, ME
Project Number: R2022057.000.012
Date: 9/17/2024 **Time:** 1201
Personnel: AHG
Sample Method: Low Flow / Stress

			At Start	At End
Depth to Water:	3.98'			
Total Depth:	41.89'	Sheen Observed:	No	No
Water Column:	37.91'	Odor Observed:	No	Yes
Depth Sampled:	~38'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1114	**START PURGE**							
1115	4.41	230	13.68	8.25	271	1.26	-231.3	14.1
1120	4.44	200	14.11	8.31	270	0.61	-241.6	15.9
1125	4.46	180	14.06	8.41	271	0.77	-248.0	11.6
1130	4.47	180	13.99	8.43	272	0.85	-256.7	8.44
1135	4.47	160	13.84	8.45	270	0.86	-257.5	6.89
1140	4.47	160	13.68	8.46	271	0.85	-259.2	4.06
1145	4.46	160	13.53	8.46	271	0.69	-259.2	3.49
1150	4.46	160	13.39	8.46	270	0.44	-259.1	5.12
1155	4.46	160	13.30	8.45	270	0.46	-258.4	4.87
1200	4.46	160	13.22	8.45	270	0.46	-257.8	5.42

Total Volume Purged: ~2 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.77

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-311

Site Location: Bangor, ME

Project Number: R2022057.000.012 **Date:** 9/18/2024 **Time:** 1210

Personnel: TDS **Sample Method:** Peristaltic Pump

			At Start	At End
Depth to Water:	5.99'			
Total Depth:	21.53'	Sheen Observed:	No	No
Water Column:	15.54'	Odor Observed:	No	No
Depth Sampled:	~20.5'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1114	**START PURGE**							
1115	6.15	170	17.84	6.75	733	2.11	-104.9	29.7
1120	6.17	170	14.02	6.77	680	0.01	-148.3	24.6
1125	6.17	180	14.26	6.80	688	-0.01	-149.8	16.7
1130	6.17	180	14.27	6.82	689	-0.02	-149.4	8.57
1135	6.17	180	13.99	6.83	688	-0.03	-149.3	8.06
1140	6.17	180	14.13	6.85	689	-0.02	-150.3	4.49
1145	6.17	180	14.03	6.84	688	0.09	-150.1	3.53
1150	6.17	180	13.99	6.84	688	0.05	-150.5	2.67
1155	6.17	180	13.99	6.84	687	0.00	-150.8	1.97
1200	6.17	180	14.20	6.84	688	0.00	-151.3	2.24
1205	6.17	180	14.15	6.84	688	0.00	-150.9	2.04

Total Volume Purged: ~2.5 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.59

QC Sample Collected?
Yes / **No**
ID:

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LOW FLOW/LOW STRESS PURGE DATA LOG SHEET

Site Name: Dow Disposal Site FUDS **Location ID:** MW-312R

Site Location: Bangor, ME

Project Number: R2022057.000.012 **Date:** 9/17/2024 **Time:** 1030

Personnel: TDS **Sample Method:** Peristaltic Pump

			At Start	At End
Depth to Water:	4.68'			
Total Depth:	42.58'	Sheen Observed:	No	No
Water Column:	37.90'	Odor Observed:	Mild	Mild
Depth Sampled:	~41.5'			

PURGE DATA

Time	Water Depth (ft.)	Purge Rate (mL/min)	Temp. (°C)	pH	Sp. Cond. (µS/cm^2)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
	START PURGE							
0930	4.68	170	12.58	9.55	671	2.45	-259.7	5.62
0935	7.13	170	12.62	9.60	668	2.36	-261.6	4.74
0940	8.00	160	12.66	9.68	662	2.21	-275.2	2.79
0945	8.64	160	12.78	9.69	660	2.19	-283.6	5.85
0950	10.02	180	12.85	9.74	651	1.97	-290.2	2.31
0955	10.95	180	12.93	9.76	643	1.78	-279.2	5.03
1000	11.90	170	13.03	9.76	636	1.69	-293.4	7.34
1005	12.42	170	12.97	9.76	632	1.60	-293.6	11.0
1010	13.36	170	12.95	9.74	625	1.47	-292.2	5.93
1015	14.07	170	12.93	9.74	620	1.36	-285.2	2.95
1020	14.67	170	12.93	9.75	617	1.30	-279.4	2.03
1025	15.03	170	12.98	9.75	612	1.25	-272.6	1.97

Total Volume Purged: ~3 gallons

SAMPLE ANALYSIS

Analysis	Container Type/Size	Number Collected	Field Filtered	Preservative	Container pH
VOCs	40 mL vial	3	N	HCl	
PAHs	1 L amber	2	N	4° C	
total metals	250 mL poly	1	N	HNO3	
diss metals	250 mL poly	1	Y	HNO3	
Cr6+	125 mL poly	1	Y	Cr6 Buffer	8.50

QC Sample Collected?
Yes **/ No**
ID:

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GROUNDWATER SAMPLING CALIBRATION LOG

Site Name: DOW FUDS Decal Letter: _____

Job No: R.2022057.000.012

YSI Multiparameter Meter Model No. (handheld & probe): Pro DDS Serial No. (handheld & probe): 21F101923

Instrument is calibrated in accordance with manufactures instructions

Date		Conductivity 1000 µS/cm	pH 4.0	pH 7.0	pH 10.0	Dissolved Oxygen 100% %sat	Dissolved Oxygen 100% ppm	Dissolved Oxygen 100% Cell Temp	ORP mV	ORP @ Temp	Solution Temp ° C	Barometric Pressure, **mm of Hg**	Personnel
4-22-24	am	1000	4	7	10	100.1		9.3	238	11.6	11.6		CW
	pm	1001	4	7	10	98.2		11.3	236	13.3	11.3		CW
	notes: Autocal solution used at the end of the day												
4-23-24	am	1000	4	7	10	100.3		7.2	238	8.1	8.1		CW
	pm	1004	4.1	7	10	99.1		5.6	236	9.2	9.2		CW
	notes: Autocal solution used at the end of the day												
4-24-24	am	1000	4	7	10	99.9		4.8	238	5.6	5.6		CW
	pm	996	4	7	10	98.4		7.2	237	11.1	11.1		CW
	notes: Autocal solution used at the end of the day												
4-25-24	am	1000	4	7	10	99.9		4.9	238	6.1	8.7		CW
	pm	1001	3.95	7	10	98.9		7.6	239	8.9	8.9		CW
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												

Calibration STD's

Lot Number:	4G00068	4G00528	4G00526	4G00066		4G50183		
Expires:	April 2025	March 2026	March 2026	April 2026	NA	November 2024	NA	NA

Turbidity Meter Model No.: GeoTech Serial No.: 17111527

Instrument is calibrated in accordance with manufactures instructions

DATE	<0.10 NTU am	<0.10 NTU pm	20.0 NTU am	20.0 NTU pm	800 NTU am	800 NTU pm
4-22	0.02	0.02	20.2	19.6	799	802
4-23	0.02	0.02	19.9	19.9	804	801
4-24	0.02	0.02	20.1	19.9	801	802
4-25	0.02	0.02	19.8	20	802	801

Calibration Acceptance Criteria +/- 2% of reading plus stray light (0.02 NTU)

notes:

Measurement	**Post Calibration Acceptance Criteria**
Dissolved Oxygen	+/- 0.5 mg/L of sat. value
	< 0.5 mg/L for the 0 mg/L solution, but not a negative value
Specific Conductance	+/- 5% of standard of +/- 10 uS/cm (which ever is greater)
pH	+/- 0.3 pH unti with pH 7 buffer
Turbidity	+/- 5% of standard
ORP	+/- 10 mv

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GROUNDWATER SAMPLING CALIBRATION LOG

Site Name: DOW FUDS Decal Letter: _____

Job No: R.2022057.000.012

YSI Multiparameter Meter Model No. (handheld & probe): Pro DDS Serial No. (handheld & probe): 21F104188

Instrument is calibrated in accordance with manufactures instructions

Date		Conductivity 1000 µS/cm	pH 4.0	pH 7.0	pH 10.0	Dissolved Oxygen 100% %sat	Dissolved Oxygen 100% ppm	Dissolved Oxygen 100% Cell Temp	ORP mV	ORP @ Temp	Solution Temp ° C	Barometric Pressure, **mm of Hg**	Personnel
4-22-24	am	1000	4	7	10	100.1		5.2	238	8.1	8.1		CW
	pm	997	4	7	10	99.7		11.3	236	13.1	11.3		CW
	notes: Autocal solution used at the end of the day												
4-23-24	am	1000	4	7	10	100.3		7.2	238	8.1	8.1		CW
	pm	1002	4.1	7	9.9	99.9		4.7	236	5.6	5.6		CW
	notes: Autocal solution used at the end of the day												
4-24-24	am	1000	4	7	10	99.9		4.8	238	5.6	5.6		CW
	pm	999	4	7	10.1	98.6		7.2	240	9.7	9.7		CW
	notes: Autocal solution used at the end of the day												
4-25-24	am	1000	4	7	10	99.9		4.2	238	7.3	7.3		CW
	pm	997	4	7.1	10	99.1		7.8	236	9.6	9.6		CW
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												

Calibration STD's

Lot Number:	4G00068	4G00528	4G00526	4G00066		4G00067		
Expires:	April 2025	March 2026	March 2026	April 2026	NA	January 2025	NA	NA

Turbidity Meter Model No.: GeoTech Serial No.: 18091874

Instrument is calibrated in accordance with manufactures instructions

DATE	<0.10 NTU am	<0.10 NTU pm	20.0 NTU am	20.0 NTU pm	800 NTU am	800 NTU pm
4-22	0.02	0.02	20.3	19.8	806	771
4-23	0.02	0.02	19.9	19.9	779	780
4-24	0.02	0.02	19.9	20	795	796
4-25	0.02	0.02	20	20.1	801	802

Calibration Acceptance Criteria +/- 2% of reading plus stray light (0.02 NTU)

notes:

Measurement	**Post Calibration Acceptance Criteria**
Dissolved Oxygen	+/- 0.5 mg/L of sat. value
	< 0.5 mg/L for the 0 mg/L solution, but not a negative value
Specific Conductance	+/- 5% of standard of +/- 10 uS/cm (which ever is greater)
pH	+/- 0.3 pH unti with pH 7 buffer
Turbidity	+/- 5% of standard
ORP	+/- 10 mv

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GROUNDWATER SAMPLING CALIBRATION LOG

Site Name: DOW FUDS Decal Letter: _____

Job No: R.2022057.000.012

YSI Multiparameter Meter Model No. (handheld & probe): Pro DDS Serial No. (handheld & probe): 18D102398

Instrument is calibrated in accordance with manufactures instructions

Date		Conductivity 1000 µS/cm	pH 4.0	pH 7.0	pH 10.0	Dissolved Oxygen 100% %sat	Dissolved Oxygen 100% ppm	Dissolved Oxygen 100% Cell Temp	ORP mV	ORP @ Temp	Solution Temp ° C	Barometric Pressure, **mm of Hg**	Personnel
6-25-24	am	1000	4	7	10	100.1		15.1	238	13.6	13.6		CW
	pm	996	4	7	9.9	98.3		17.9	240	14.2	14.2		CW
	notes: Autocal solution used at the end of the day												
6-26-24	am	1000	4	7	10	100.1		15.2	238	15.1	15.1		CW
	pm	996	4	7	10	99.1		16.3	237	14.2	14.2		CW
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												

Calibration STD's

Lot Number:	4G00068	4G00528	4G00526	4G00066		4G00067		
Expires:	April 2025	March 2026	March 2026	April 2026	NA	January 2025	NA	NA

Turbidity Meter Model No.: GeoTech Serial No.: 18091873

Instrument is calibrated in accordance with manufactures instructions

DATE	1.0 NTU am	1.0 NTU pm	10.0 NTU am	10.0 NTU pm		
6-25	1	0.9	10	10.1		
6-26	1	1	10	9.9		

Calibration Acceptance Criteria +/- 2% of reading plus stray light (0.02 NTU)

notes:

Measurement	**Post Calibration Acceptance Criteria**
Dissolved Oxygen	+/- 0.5 mg/L of sat. value
	< 0.5 mg/L for the 0 mg/L solution, but not a negative value
Specific Conductance	+/- 5% of standard of +/- 10 uS/cm (which ever is greater)
pH	+/- 0.3 pH unti with pH 7 buffer
Turbidity	+/- 5% of standard
ORP	+/- 10 mv

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GROUNDWATER SAMPLING CALIBRATION LOG

Site Name: DOW FUDS Decal Letter: _____

Job No: R.2022057.000.012

YSI Multiparameter Meter Model No. (handheld & probe): Pro DDS Serial No. (handheld & probe): 21R103633

Instrument is calibrated in accordance with manufactures instructions

Date		Conductivity 1000 µS/cm	pH 4.0	pH 7.0	pH 10.0	Dissolved Oxygen 100% %sat	Dissolved Oxygen 100% ppm	Dissolved Oxygen 100% Cell Temp	ORP mV	ORP @ Temp	Solution Temp ° C	Barometric Pressure, **mm of Hg**	Personnel
6-25-24	am	1000	4	7	10	100.1		15.1	238	13.6	13.6		CW
	pm	996	4	6.9	10	99.6		17.9	238	14.2	14.2		CW
	notes: Autocal solution used at the end of the day												
6-26-24	am	1000	4	7	10	100.1		15.2	238	15.1	15.1		CW
	pm	996	4	7	10	98.6		16.3	236	14.2	14.2		CW
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												

Calibration STD's

Lot Number:	4G00068	4G00528	4G00526	4G00066		4G00067		
Expires:	April 2025	March 2026	March 2026	April 2026	NA	January 2025	NA	NA

Turbidity Meter Model No.: GeoTech Serial No.: 24035216

Instrument is calibrated in accordance with manufactures instructions

DATE	1.0 NTU am	1.0 NTU pm	10.0 NTU am	10.0 NTU pm		
6-25	1	1	10	10.1		
6-26	1	1	10	10.1		

Calibration Acceptance Criteria +/- 2% of reading plus stray light (0.02 NTU)

notes:

Measurement	**Post Calibration Acceptance Criteria**
Dissolved Oxygen	+/- 0.5 mg/L of sat. value
	< 0.5 mg/L for the 0 mg/L solution, but not a negative value
Specific Conductance	+/- 5% of standard of +/- 10 uS/cm (which ever is greater)
pH	+/- 0.3 pH unti with pH 7 buffer
Turbidity	+/- 5% of standard
ORP	+/- 10 mv

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GROUNDWATER SAMPLING CALIBRATION LOG

Site Name: DOW FUDS Decal Letter: _____

Job No: R.2022057.000.012

YSI Multiparameter Meter Model No. (handheld & probe): YSI ProQuatro (2) Serial No. (handheld & probe): 20R101853 & 20J100616

Instrument is calibrated in accordance with manufactures instructions

Date		Conductivity 1000 µS/cm	pH 4.0	pH 7.0	pH 10.0	Dissolved Oxygen 100% %sat	Dissolved Oxygen 100% ppm	Dissolved Oxygen 100% Cell Temp	ORP mV	ORP @ Temp	Solution Temp ° C	Barometric Pressure, **mm of Hg**	Personnel
6-25-24	am	1001	4	7.02	10.01	98.2	10.15	22.5	238	21.4			CW
	pm	1001	4	7	10	99.6		21	236				CW
	notes: Autocal solution used at the end of the day												
6-26-24	am	1000	4	7	10	100.1		20.1	238	21.2			CW
	pm	1002	4.02	7.01	10.03	98.2		21.3	240	22.1			CW
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												

Calibration STD's

Lot Number:	4G00068	4G00528	4G00526	4G00066		4G00067		
Expires:	April 2025	March 2026	March 2026	April 2026	NA	January 2025	NA	NA

Turbidity Meter Model No.: GeoTech Serial No.: 17111537

Instrument is calibrated in accordance with manufactures instructions

DATE	1.0 NTU am	1.0 NTU pm	10.0 NTU am	10.0 NTU pm		
6-25	1	1	10	10.1		
6-26	1	1	10	10.1		

Calibration Acceptance Criteria +/- 2% of reading plus stray light (0.02 NTU)

notes:

Measurement	**Post Calibration Acceptance Criteria**
Dissolved Oxygen	+/- 0.5 mg/L of sat. value
	< 0.5 mg/L for the 0 mg/L solution, but not a negative value
Specific Conductance	+/- 5% of standard of +/- 10 uS/cm (which ever is greater)
pH	+/- 0.3 pH unti with pH 7 buffer
Turbidity	+/- 5% of standard
ORP	+/- 10 mv

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GROUNDWATER SAMPLING CALIBRATION LOG

Site Name: DOW FUDS Decal Letter: _____

Job No: R.2022057.000.012

YSI Multiparameter Meter Model No. (handheld & probe): 3510-1035 Serial No. (handheld & probe): 09J700082

Instrument is calibrated in accordance with manufactures instructions

Date		Conductivity 1000 µS/cm	pH 4.0	pH 7.0	pH 10.0	Dissolved Oxygen 100% %sat	Dissolved Oxygen 100% ppm	Dissolved Oxygen 100% Cell Temp	ORP mV	ORP @ Temp	Solution Temp ° C	Barometric Pressure, **mm of Hg**	Personnel
9-16-24	am	1000	4	7	10	100			238			738	AHG
	pm	996	4.02	6.99	10.01	100.2			238			738	AHG
	notes: Autocal solution used at the end of the day												
9-17-24	am	1001	4	7	10	100.1			238			738	AHG
	pm	1000	4	7	10	100			238			738	AHG
	notes: Autocal solution used at the end of the day												
9-18-24	am	1000	4	7	10	100		17.02	238	17.4		760.2	AHG
	pm	994	3.99	7	9.98	98.8		24.1	236	24.1			CW
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												

Calibration STD's

Lot Number:	4G00068	4G00528	4G00526	4G00066		4G00067		
Expires:	April 2025	March 2026	March 2026	April 2026	NA	January 2025	NA	NA

Turbidity Meter Model No.: GeoTech Serial No.: 17111537

Instrument is calibrated in accordance with manufactures instructions

DATE	<0.10 NTU am	<0.10 NTU pm	20.0 NTU am	20.0 NTU pm	800 NTU am	800 NTU pm
9-16	<0.10	<0.10	20.1	20	801	801
9-17	<0.10	<0.10	21.1	20.1	802	800
9-18	<0.10	<0.10	20.2	20	801	800

Calibration Acceptance Criteria +/- 2% of reading plus stray light (0.02 NTU)

notes:

Measurement	**Post Calibration Acceptance Criteria**
Dissolved Oxygen	+/- 0.5 mg/L of sat. value
	< 0.5 mg/L for the 0 mg/L solution, but not a negative value
Specific Conductance	+/- 5% of standard of +/- 10 uS/cm (which ever is greater)
pH	+/- 0.3 pH unti with pH 7 buffer
Turbidity	+/- 5% of standard
ORP	+/- 10 mv

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GROUNDWATER SAMPLING CALIBRATION LOG

Site Name: DOW FUDS Decal Letter: _____

Job No: R.2022057.000.012

YSI Multiparameter Meter Model No. (handheld & probe): 3510-1005 Serial No. (handheld & probe): YSI 556

Instrument is calibrated in accordance with manufactures instructions

Date		Conductivity 1000 µS/cm	pH 4.0	pH 7.0	pH 10.0	Dissolved Oxygen 100% %sat	Dissolved Oxygen 100% ppm	Dissolved Oxygen 100% Cell Temp	ORP mV	ORP @ Temp	Solution Temp ° C	Barometric Pressure, **mm of Hg**	Personnel
9-16-24	am	1000	4	7	10	100		21.98	238	19.98		776.8	TDS
	pm	1000	4	7	10	100		22.02	238	19.15		777.2	TDS
	notes: Autocal solution used at the end of the day												
9-17-24	am	1000	4	7	10	100		15.39	238	16.62		779.9	TDS
	pm	1000	4	7	10	100		16.02	238	17.45		780.2	TDS
	notes: Autocal solution used at the end of the day												
9-18-24	am	1000	4	7	10	100		16.25	238	16.89		779.5	TDS
	pm	1000	4	7	10	100			238				TDS
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												

Calibration STD's

Lot Number:	4G00068	4G00528	4G00526	4G00066		4G00067		
Expires:	April 2025	March 2026	March 2026	April 2026	NA	January 2025	NA	NA

Turbidity Meter Model No.: GeoTech Serial No.: 17061387

Instrument is calibrated in accordance with manufactures instructions

DATE	<0.10 NTU am	<0.10 NTU pm	20.0 NTU am	20.0 NTU pm	800 NTU am	800 NTU pm
9-16	<0.10	<0.10	20	20.2	788	797
9-17	<0.10	<0.10	20.3	20.1	800	801
9-18	<0.10	<0.10	20.1	20.1	799	800

Calibration Acceptance Criteria +/- 2% of reading plus stray light (0.02 NTU)

notes:

Measurement	**Post Calibration Acceptance Criteria**
Dissolved Oxygen	+/- 0.5 mg/L of sat. value
	< 0.5 mg/L for the 0 mg/L solution, but not a negative value
Specific Conductance	+/- 5% of standard of +/- 10 uS/cm (which ever is greater)
pH	+/- 0.3 pH unti with pH 7 buffer
Turbidity	+/- 5% of standard
ORP	+/- 10 mv

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GROUNDWATER SAMPLING CALIBRATION LOG

Site Name: DOW FUDS Decal Letter: _____

Job No: R.2022057.000.012

YSI Multiparameter Meter Model No. (handheld & probe): 3510-1089 Serial No. (handheld & probe): YSI 556

Instrument is calibrated in accordance with manufactures instructions

Date		Conductivity 1000 µS/cm	pH 4.0	pH 7.0	pH 10.0	Dissolved Oxygen 100% %sat	Dissolved Oxygen 100% ppm	Dissolved Oxygen 100% Cell Temp	ORP mV	ORP @ Temp	Solution Temp ° C	Barometric Pressure, **mm of Hg**	Personnel
9-17-24	am	1000	4	7	10	100.1			238				CW
	pm	1000	4	6.9	9.9	99.6			240				CW
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												
	am												
	pm												
	notes: Autocal solution used at the end of the day												

Calibration STD's

Lot Number:	4G00068	4G00528	4G00526	4G00066		4G00067		
Expires:	April 2025	March 2026	March 2026	April 2026	NA	January 2025	NA	NA

Turbidity Meter Model No.: GeoTech Serial No.: 19062099

Instrument is calibrated in accordance with manufactures instructions

DATE	<0.10 NTU am	<0.10 NTU pm	20.0 NTU am	20.0 NTU pm	800 NTU am	800 NTU pm
9-17	<0.10	<0.10	20	20.1	798	801

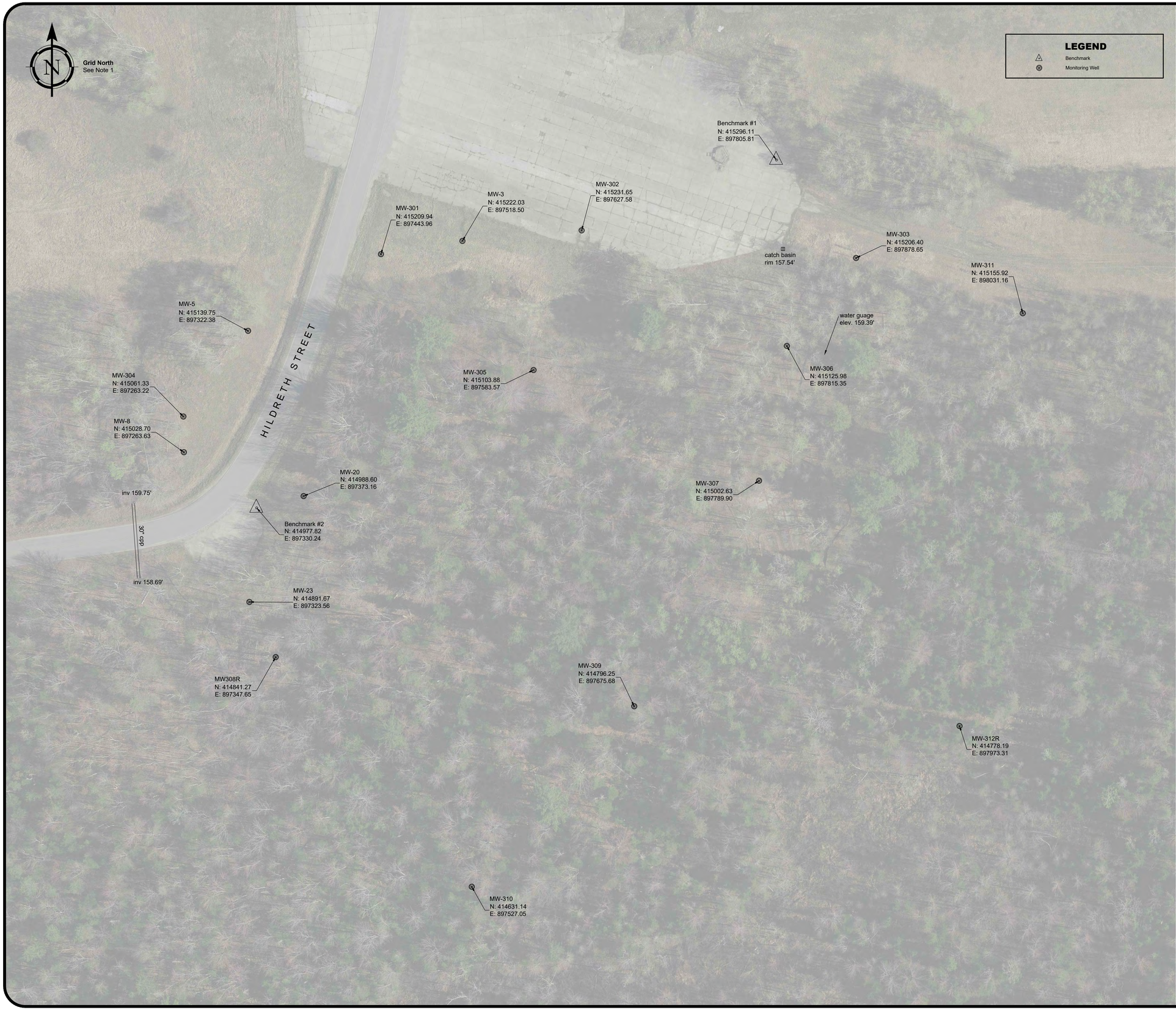
Calibration Acceptance Criteria +/- 2% of reading plus stray light (0.02 NTU)

notes:

Measurement	**Post Calibration Acceptance Criteria**
Dissolved Oxygen	+/- 0.5 mg/L of sat. value
	< 0.5 mg/L for the 0 mg/L solution, but not a negative value
Specific Conductance	+/- 5% of standard of +/- 10 uS/cm (which ever is greater)
pH	+/- 0.3 pH unti with pH 7 buffer
Turbidity	+/- 5% of standard
ORP	+/- 10 mv

ATTACHMENT D

Monitoring Well Survey Results

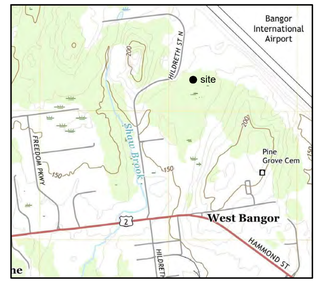


NOTES

1. Basis of Bearings:
   North orientation shown on this plan are based on Grid North, Maine East, NAD83(2011), based on GPS observations taken June 17, 2024. Units are US Survey Feet.
2. Elevations shown on this plan refer to NAVD88 (Geoid18) as based on local benchmarks established by GPS observations taken June 17, 2024. Elevations reported for the points of interest for each monitoring well are based on differential leveling loops run through the two benchmarks and each monitoring well. Ground elevations are based on GPS observations.
3. Aerial photo procured from the Maine Office of GIS online data catalog. Photo is dated 2019. Pixel size is 0.25 feet.

LOCATION MAP

not to scale



POINT SPREADSHEET

Description	Elev. Top of Metal Casing	Elev. Top of PVC	Elev. Top of CO Adapter	Ground Elev.
Benchmark #1	158.61	158.61	n/a	
Benchmark #2	163.50	163.50	n/a	
MW-3	165.16	164.36	n/a	161.97
MW-5	166.71	166.50	166.59	163.55
MW-8	166.47	166.39	166.46	163.48
MW-20	164.30	164.12	164.20	161.17
MW-23	163.30	163.40	163.48	160.33
MW-301	165.71	165.60	n/a	162.80
MW-302	160.45	160.18	n/a	160.36
MW-303	159.91	159.42	n/a	156.94
MW-304	167.22	167.05	n/a	164.45
MW-305	159.99	159.60	n/a	156.80
MW-306	160.44	160.30	n/a	157.81
MW-307	160.90	160.71	n/a	158.30
MW-308R	158.78	158.70	n/a	155.41
MW-309	158.84	158.53	n/a	155.66
MW-310	157.75	157.49	n/a	154.89
MW-311	159.86	159.60	n/a	157.11
MW-312R	157.90	157.60	n/a	154.83

CERTIFICATION

PLISGA & DAY Land Surveyors, hereby certifies to Mabbett, exclusively, that to the best of our knowledge and belief this survey conforms to Standards of Practice adopted by the Maine Board of Licensure for Professional Land Surveyors, except no boundary survey was performed.

PLISGA & DAY LAND SURVEYORS

STATE OF MAINE
STEVENSON W. SHEPPARD 2086
PROFESSIONAL LAND SURVEYOR

Date: August 27, 2024
Stevenson W. Sheppard
Maine Professional Land Surveyor No. 2086

Monitoring Wells Elevation Sketch

at

Former Dow Air Force Base

for

Mabbett & Associates, Inc.

250 Hildreth Street North, Bangor, Maine 04401

PLISGA & DAY
LAND SURVEYORS
72 MAIN STREET
BANGOR, ME 04401
(207) 947-0019
w w w . w e m a p i t . c o m

PROJECT NUMBER: 24126

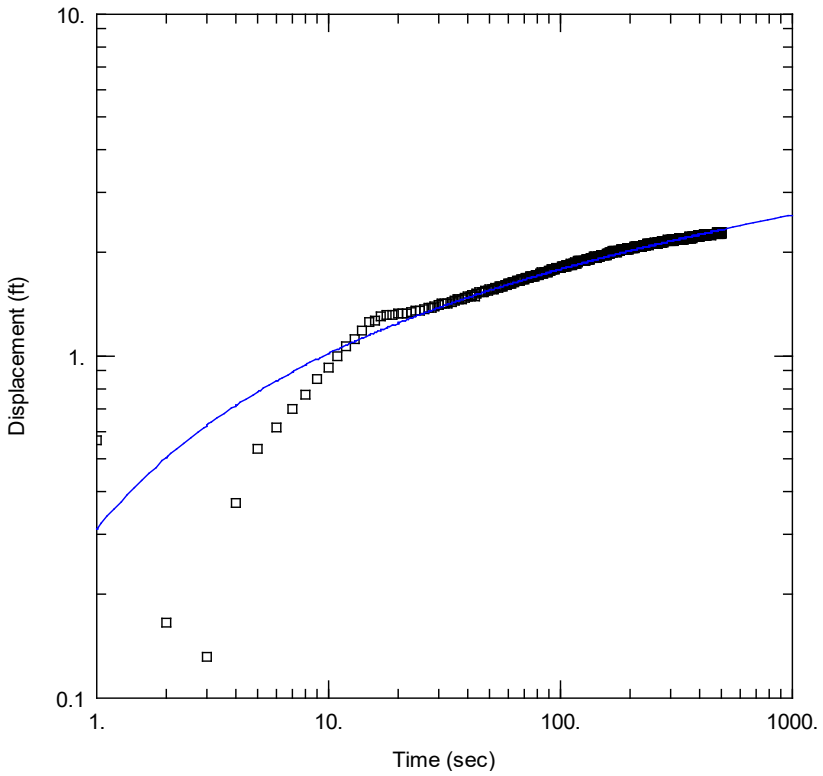
DATE: August 27, 2024

SCALE: 1"=40'

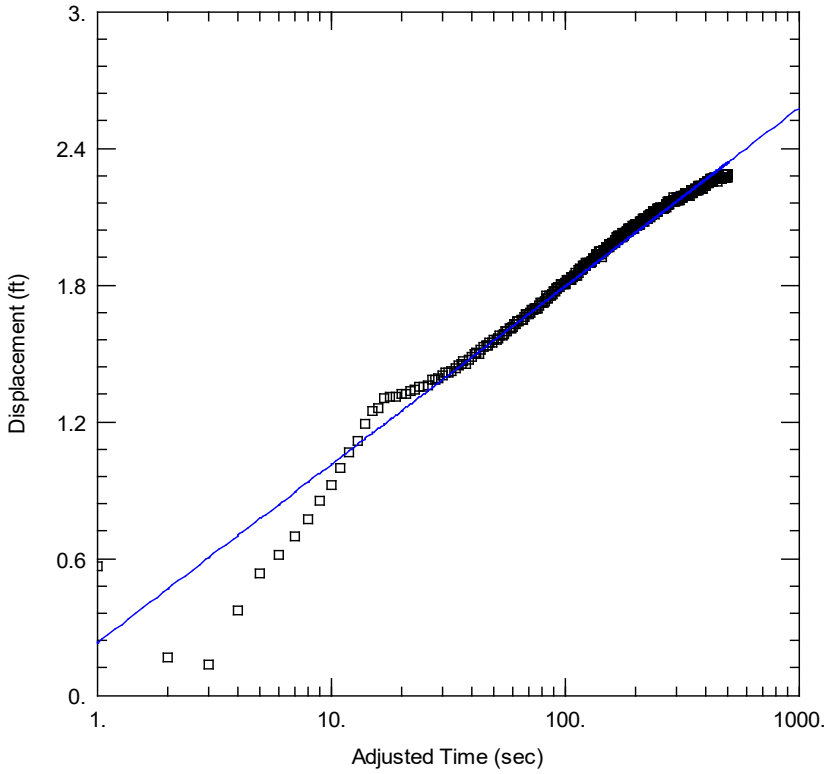
SHEET: 1 OF 1

ATTACHMENT E

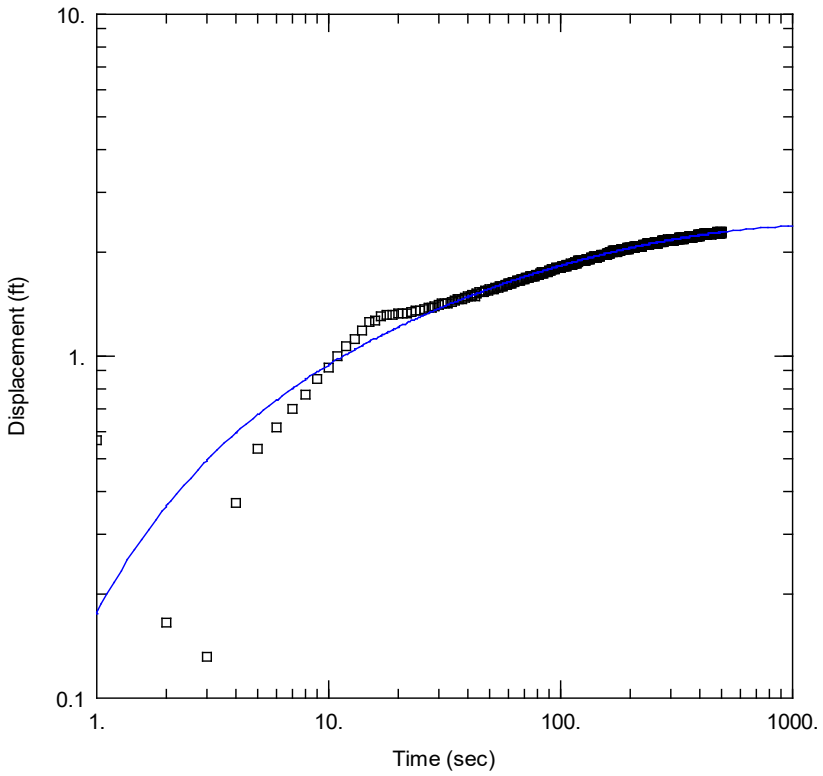
AQTESOLV Outputs



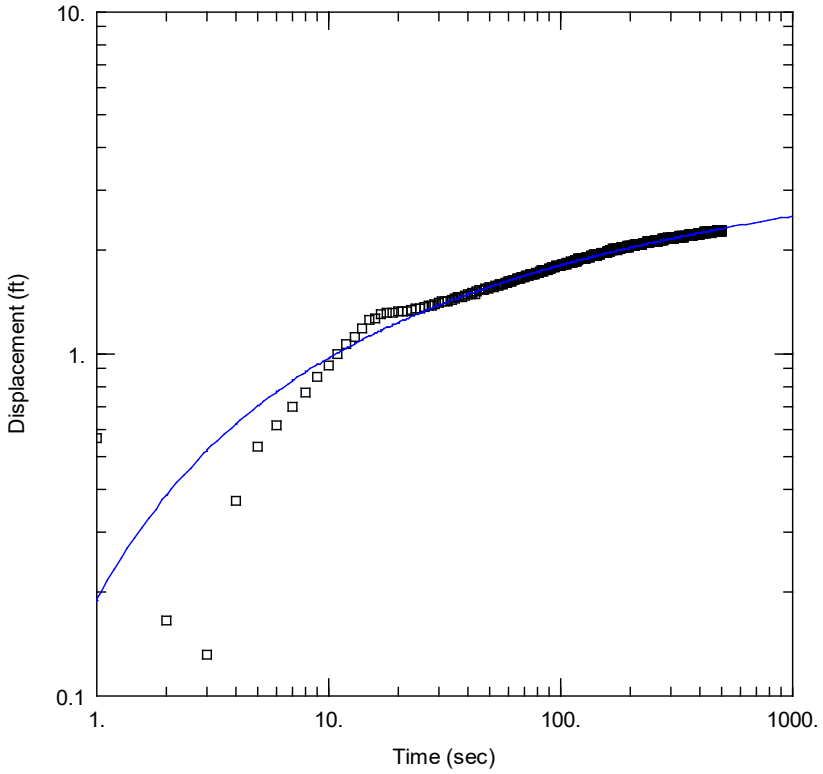
Obs. Wells
MW-301_1
Aquifer Model
Confined
Solution
Theis
Parameters
T = 54.63 ft^2/day
S = 0.1088
Kz/Kr = 0.001
b = 39.01 ft



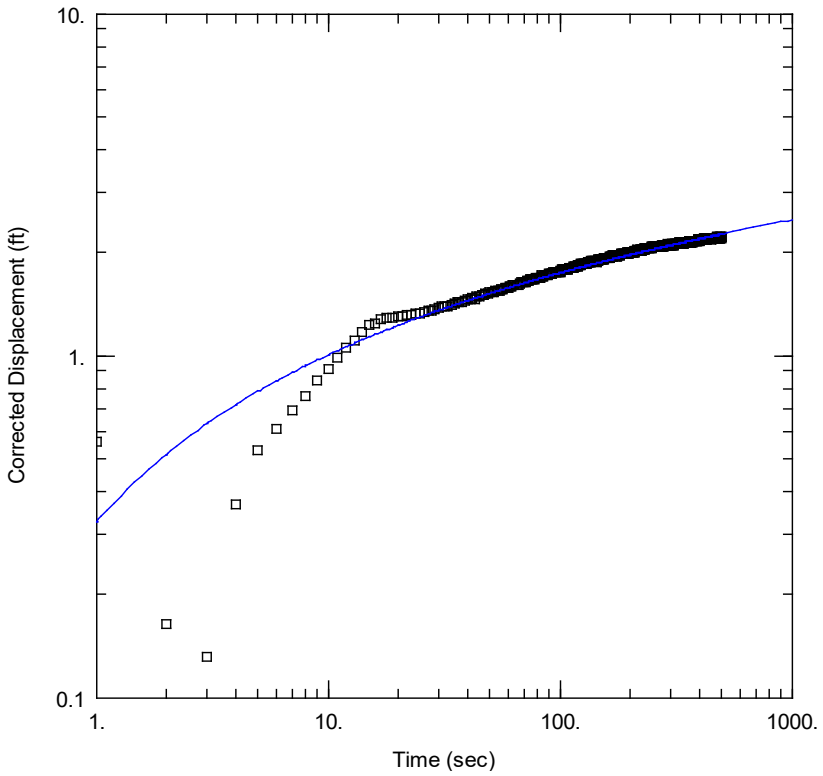
Obs. Wells
MW-301_1
Aquifer Model
Confined
Solution
Cooper-Jacob
Parameters
T = 18.05 ft^2/day
S = 0.03442



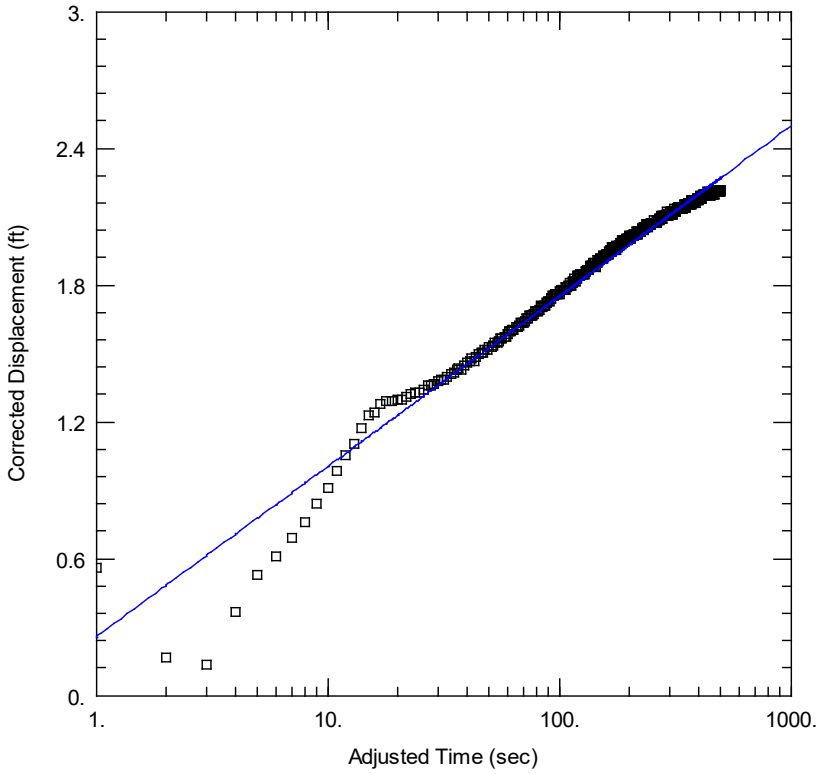
Obs. Wells
□ MW-301_1
Aquifer Model
Leaky
Solution
Hantush-Jacob
Parameters
T = 44.37 ft^2/day
S = 0.1897
r/B = 0.06337
Kz/Kr = 0.001
b = 39.01 ft



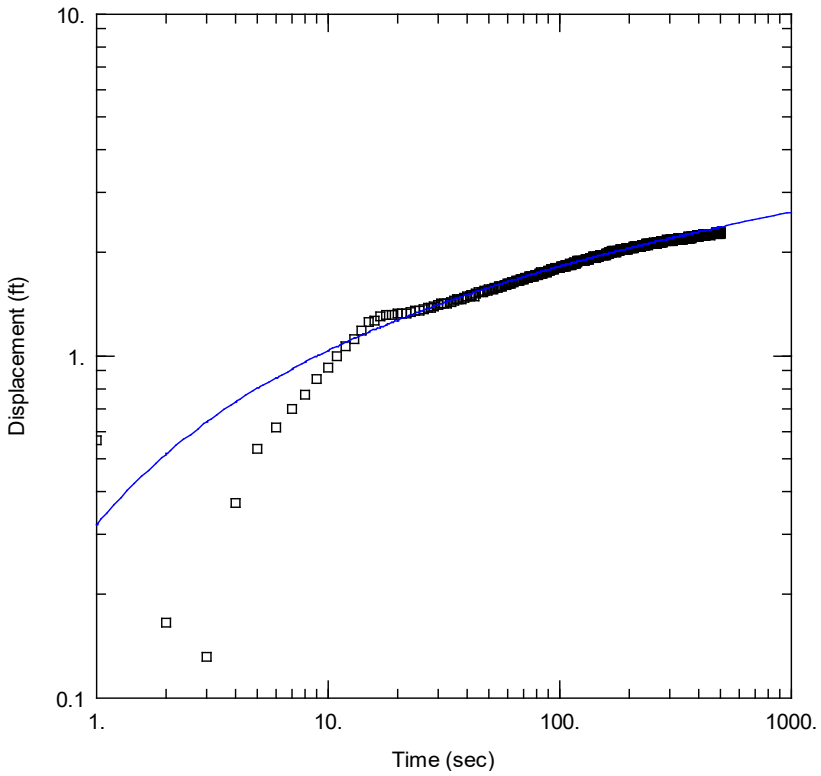
Obs. Wells
□ MW-301_1
Aquifer Model
Leaky
Solution
Hantush
Parameters
T = 12.33 ft^2/day
S = 0.05223
r/B' = 1.0E-5
ß' = 0.04515
r/B" = 0.
ß" = 0.



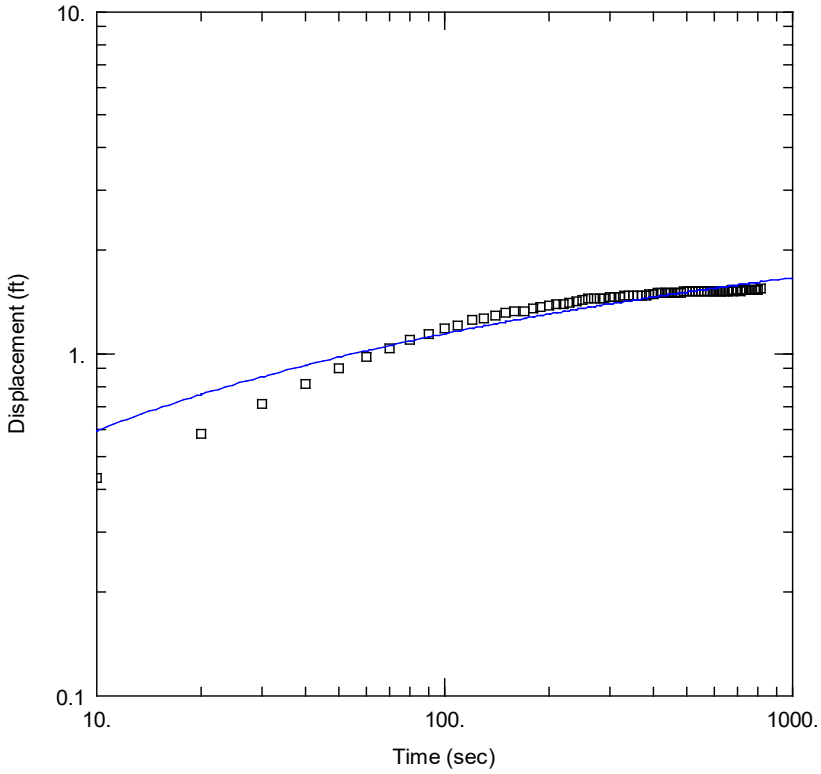
Obs. Wells
MW-301_1
Aquifer Model
Unconfined
Solution
Theis
Parameters
T = 57.28 ft^2/day
S = 0.1009
Kz/Kr = 0.001
b = 39.01 ft



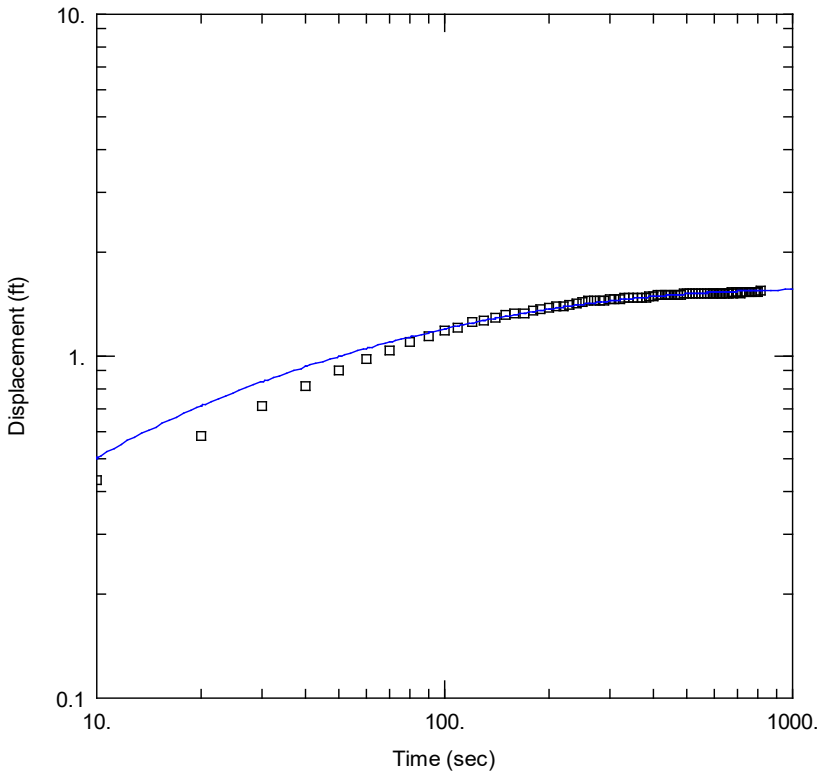
Obs. Wells
MW-301_1
Aquifer Model
Unconfined
Solution
Cooper-Jacob
Parameters
T = 18.9 ft^2/day
S = 0.03213



Obs. Wells
MW-301_1
Aquifer Model
Unconfined
Solution
Tartakovsky-Neuman
Parameters
T = 53.77 ft^2/day
S = 0.1056
Sy = 0.1
Kz/Kr = 0.001
kD = 5.



Obs. Wells
MW-301
Aquifer Model
Confined
Solution
Theis (Step Test)
Parameters
T = 72.08 ft^2/day
S = 0.2581
Sw = 0.
C = 0. sec^2/ft^5
P = 2.

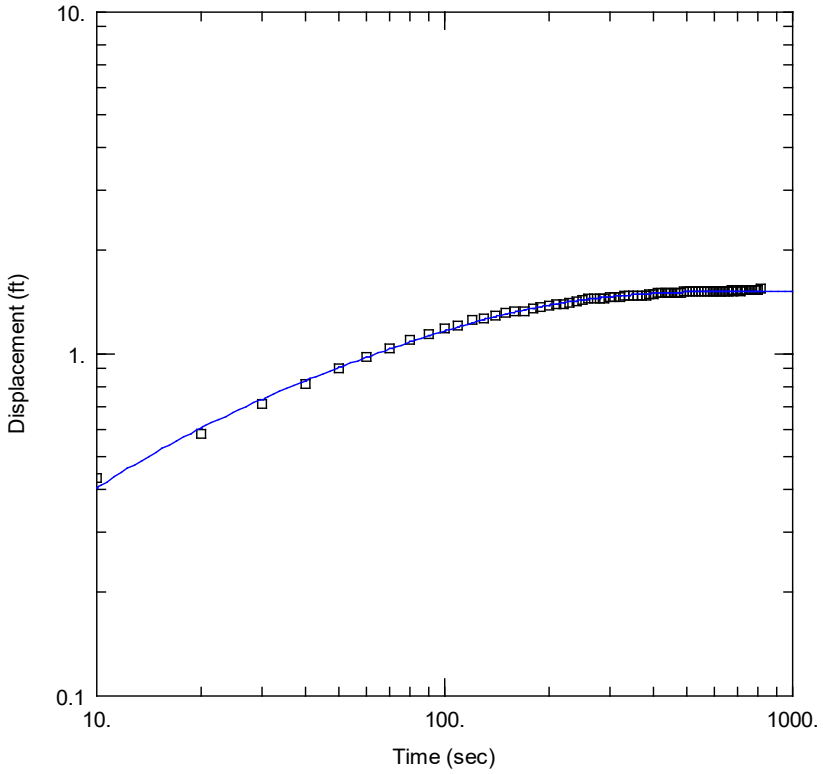


Obs. Wells
□ MW-301

Aquifer Model
Leaky

Solution
Hantush-Jacob

Parameters
T = 50.65 ft^2/day
S = 0.5257
r/B = 0.1226
Kz/Kr = 0.1
b = 40. ft

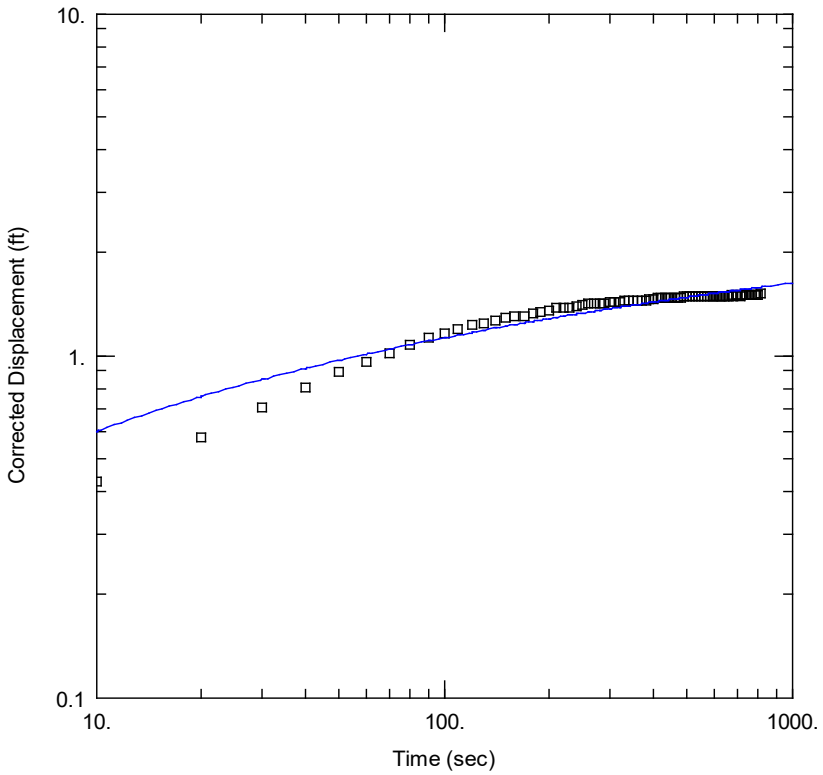


Obs. Wells
□ MW-301

Aquifer Model
Leaky

Solution
Hantush

Parameters
T = 5.787 ft^2/day
S = 0.06226
r/B' = 0.6077
ß' = 0.7016
r/B" = 0.
ß" = 0.

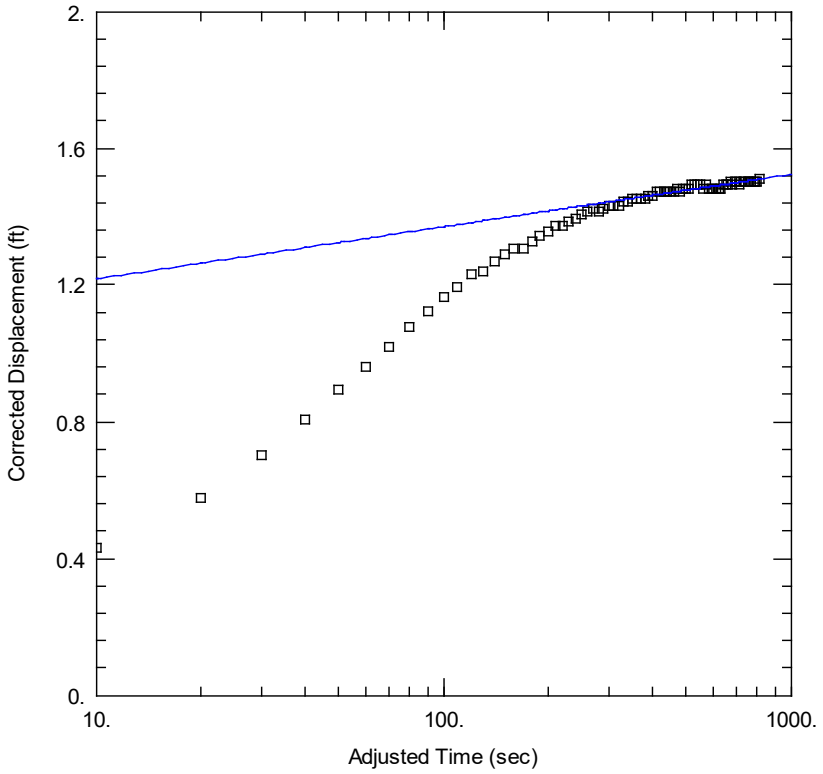


Obs. Wells
□ MW-301

Aquifer Model
Unconfined

Solution
Theis

Parameters
T = 74.91 ft^2/day
S = 0.2364
Kz/Kr = 1.
b = 40. ft

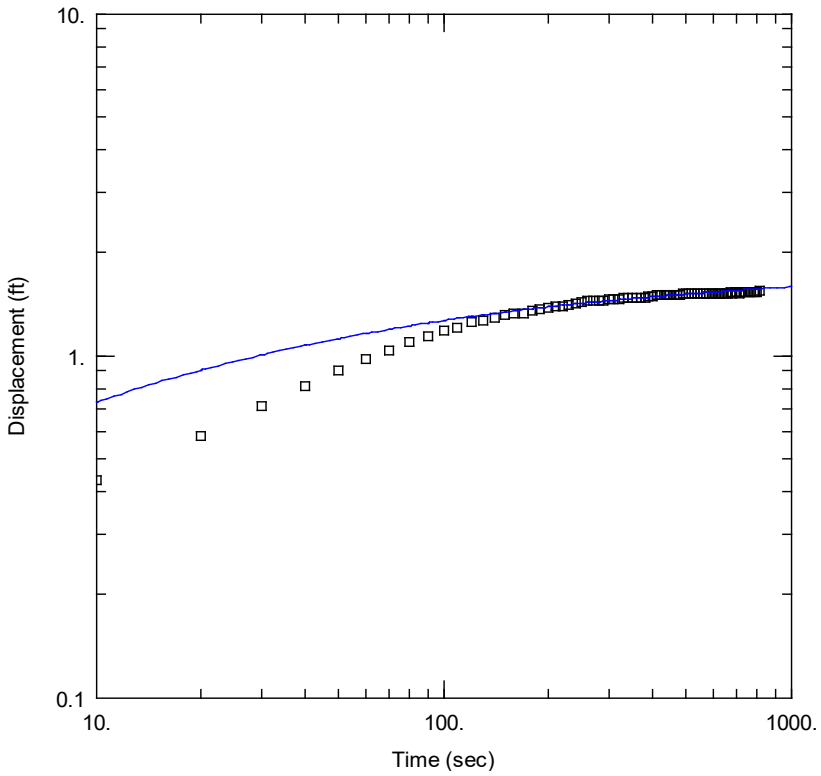


Obs. Wells
□ MW-301

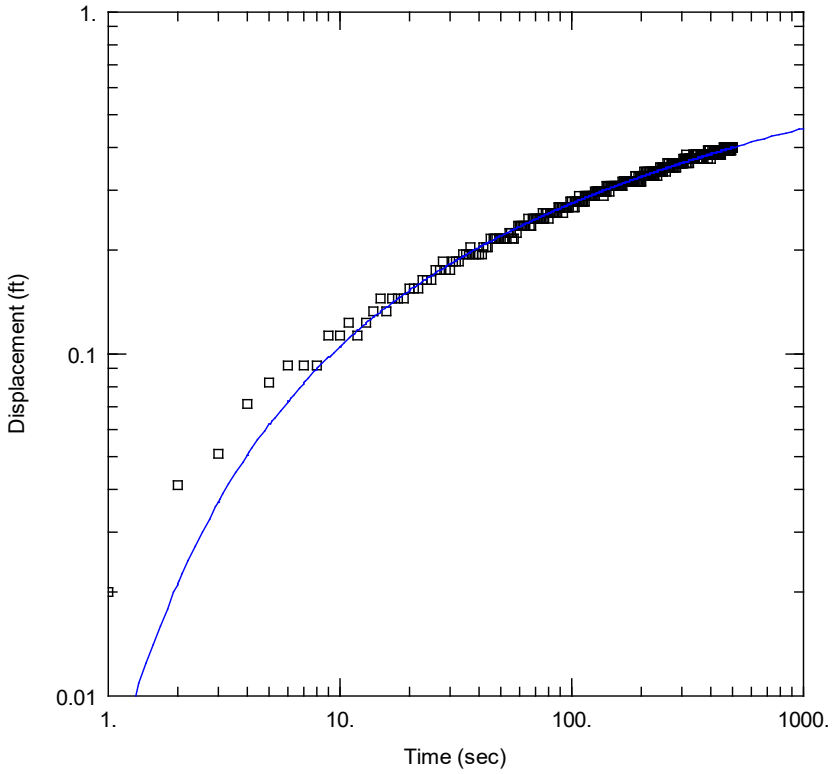
Aquifer Model
Unconfined

Solution
Cooper-Jacob

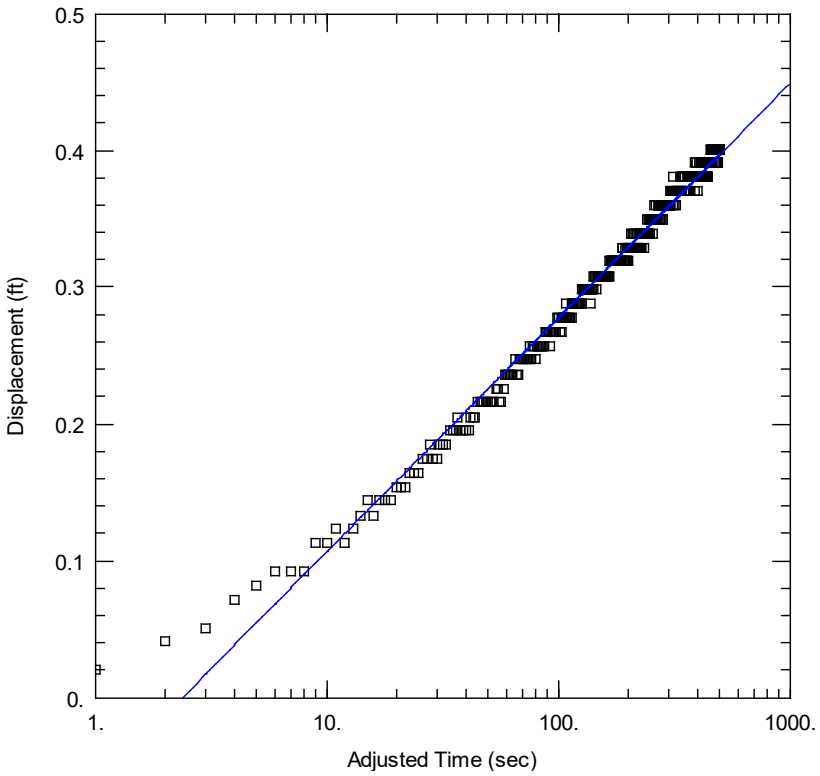
Parameters
T = 86.5 ft^2/day
S = 3.548E-8



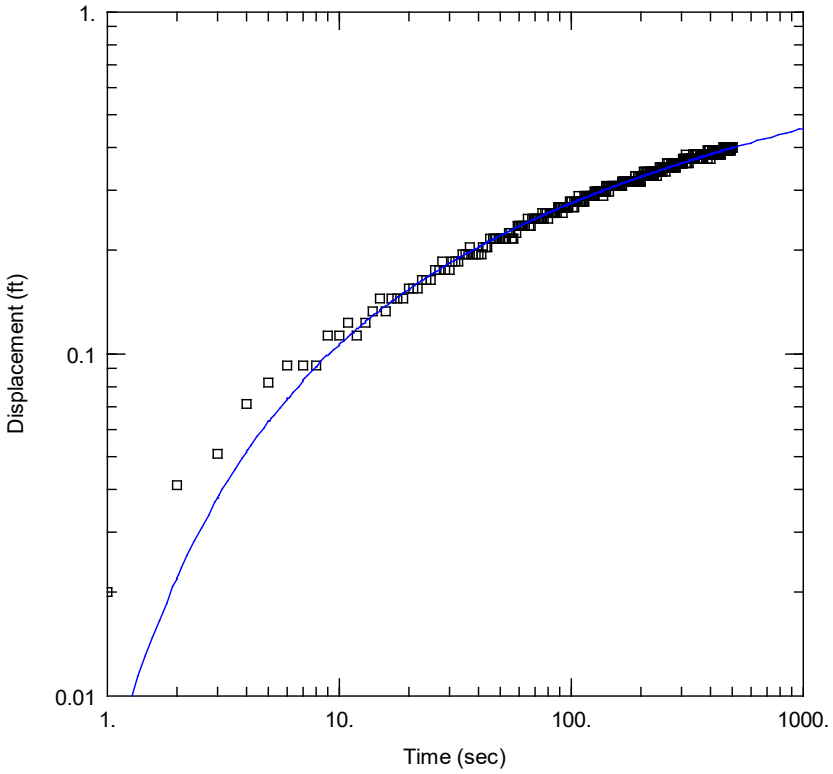
Obs. Wells
MW-301
Aquifer Model
Unconfined
Solution
Neuman
Parameters
T = 53.83 ft^2/day
S = 0.1808
Sy = 0.000662
ß = 0.001



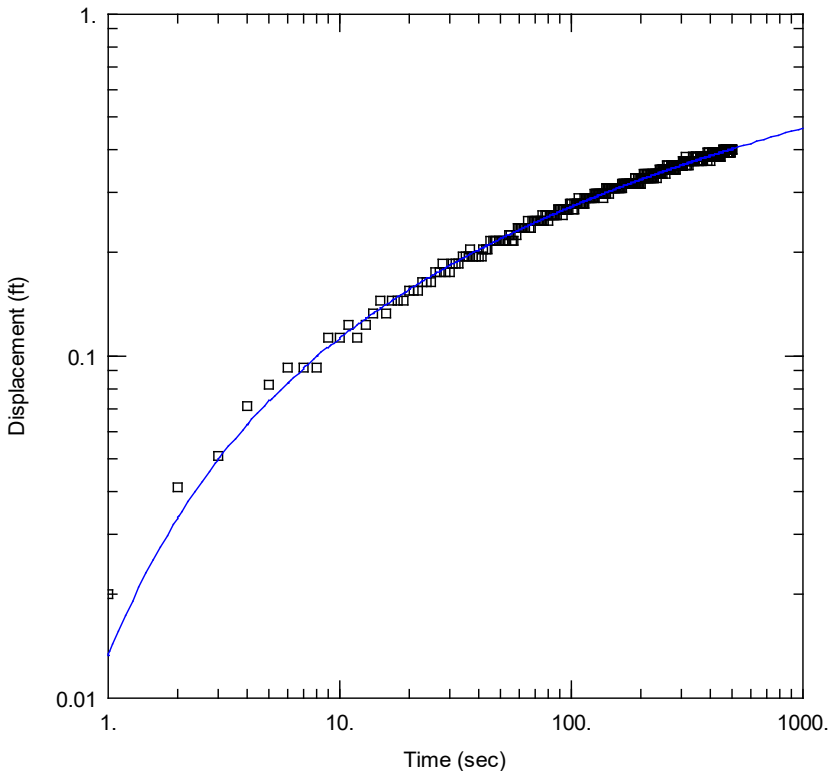
Obs. Wells
MW-303
Aquifer Model
Confined
Solution
Theis
Parameters
T = 223.2 ft^2/day
S = 2.637
Kz/Kr = 0.144
b = 10. ft



Obs. Wells
□ MW-303
Aquifer Model
Confined
Solution
Cooper-Jacob
Parameters
T = 237. ft^2/day
S = 2.123



Obs. Wells
□ MW-303
Aquifer Model
Leaky
Solution
Hantush-Jacob
Parameters
T = 224.8 ft^2/day
S = 2.577
r/B = 1.0E-5
Kz/Kr = 0.144
b = 10. ft

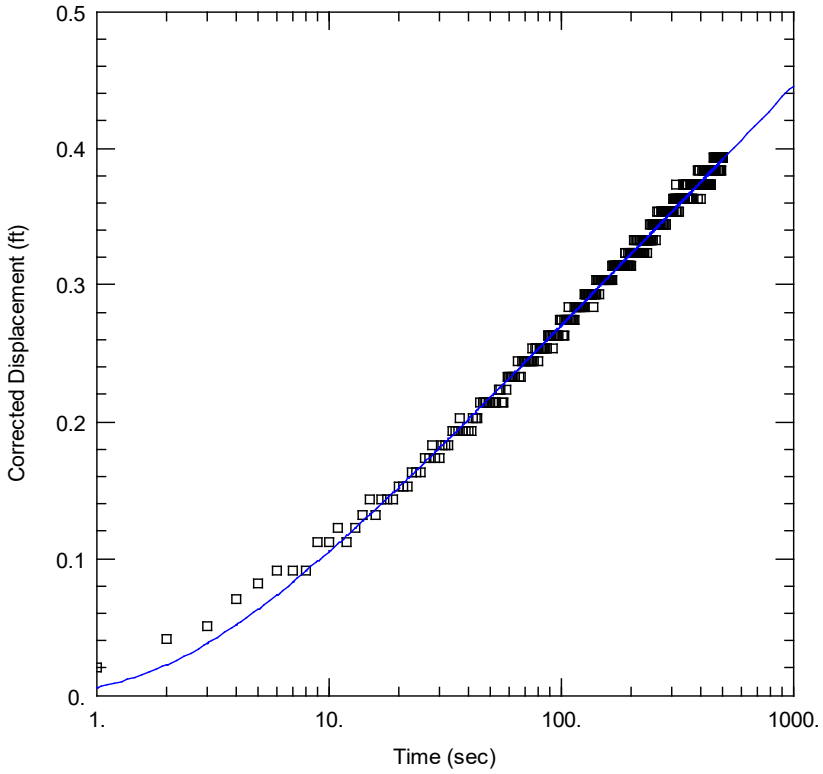


Obs. Wells
□ MW-303

Aquifer Model
Leaky

Solution
Hantush

Parameters
T = 93.99 ft^2/day
S = 0.5859
r/B' = 1.0E-5
ß' = 0.648
r/B" = 0.
ß" = 0.

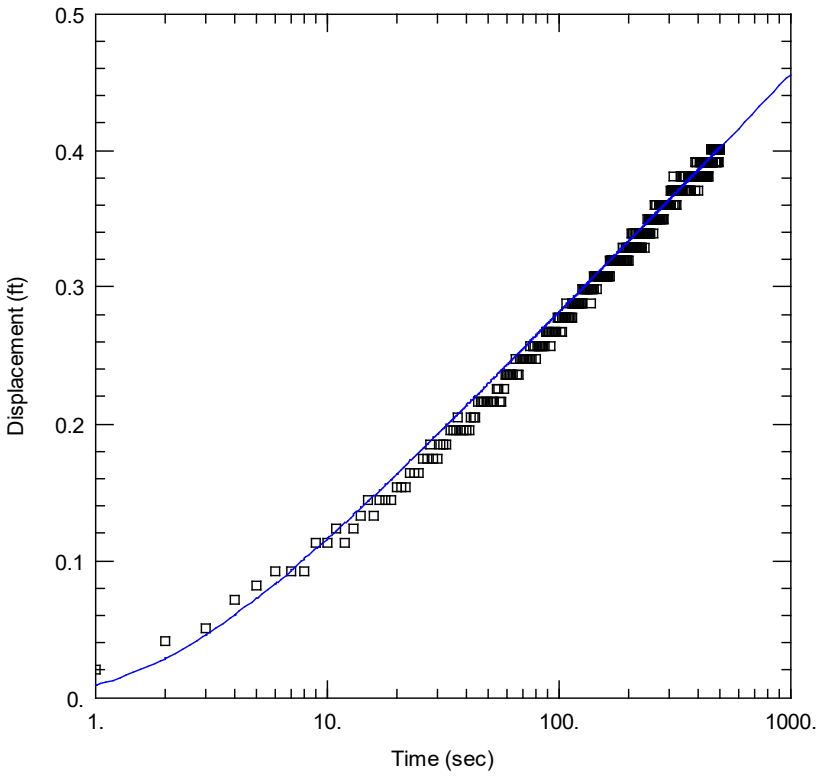


Obs. Wells
□ MW-303

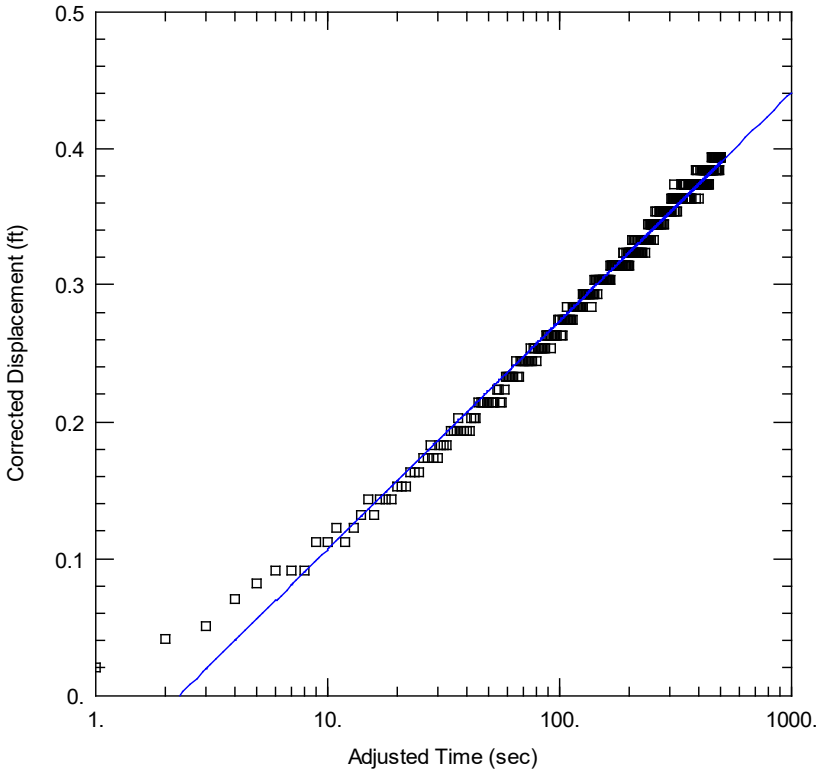
Aquifer Model
Unconfined

Solution
Theis

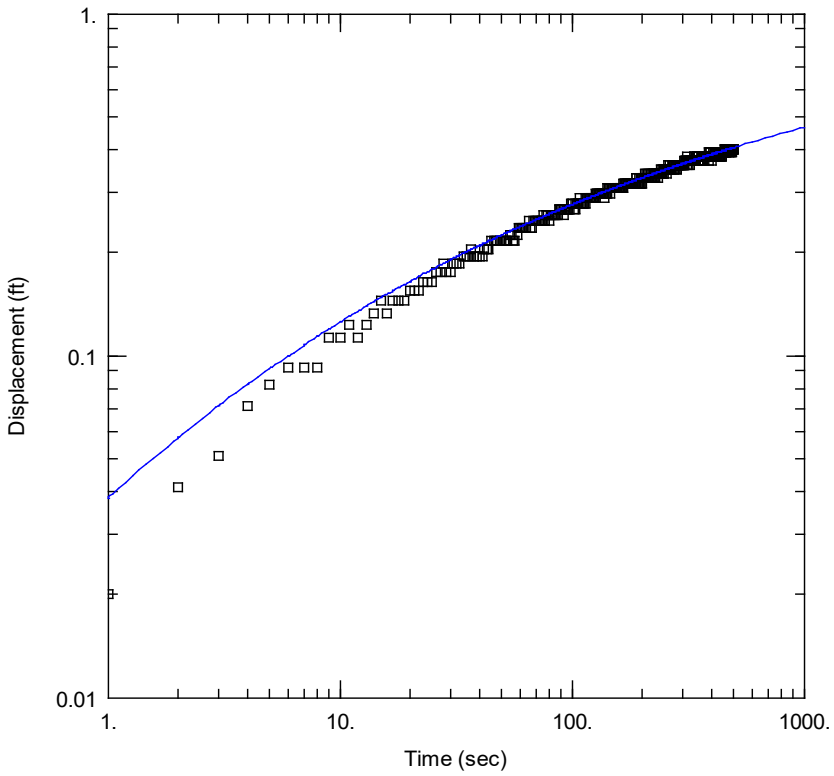
Parameters
T = 229.9 ft^2/day
S = 2.575
Kz/Kr = 0.5
b = 10. ft



Obs. Wells
MW-303
Aquifer Model
Unconfined
Solution
Neuman
Parameters
T = 230. ft^2/day
S = 2.181
Sy = 0.1885
ß = 1.0E-5



Obs. Wells
MW-303
Aquifer Model
Unconfined
Solution
Cooper-Jacob
Parameters
T = 243.1 ft^2/day
S = 2.101

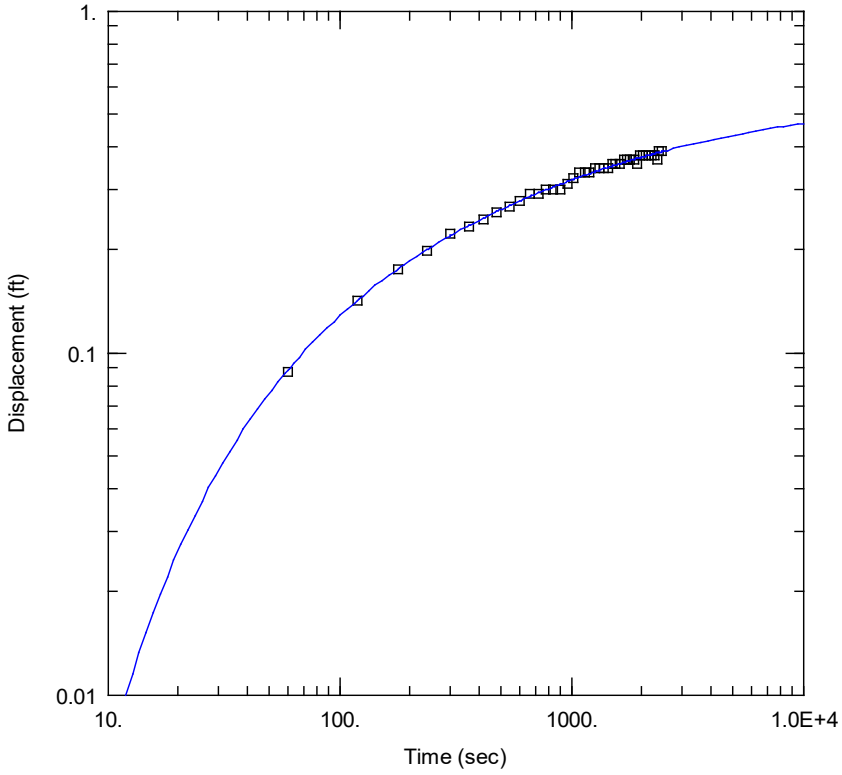


Obs. Wells
□ MW-303

Aquifer Model
Unconfined

Solution
Moench

Parameters
T = 197.6 ft^2/day
S = 3.797
Sy = 0.5
ß = 0.0004801
Sw = 0.
r(w) = 0.08333 ft
r(c) = 0.08333 ft
alpha = 1.0E+30 sec^{-1}

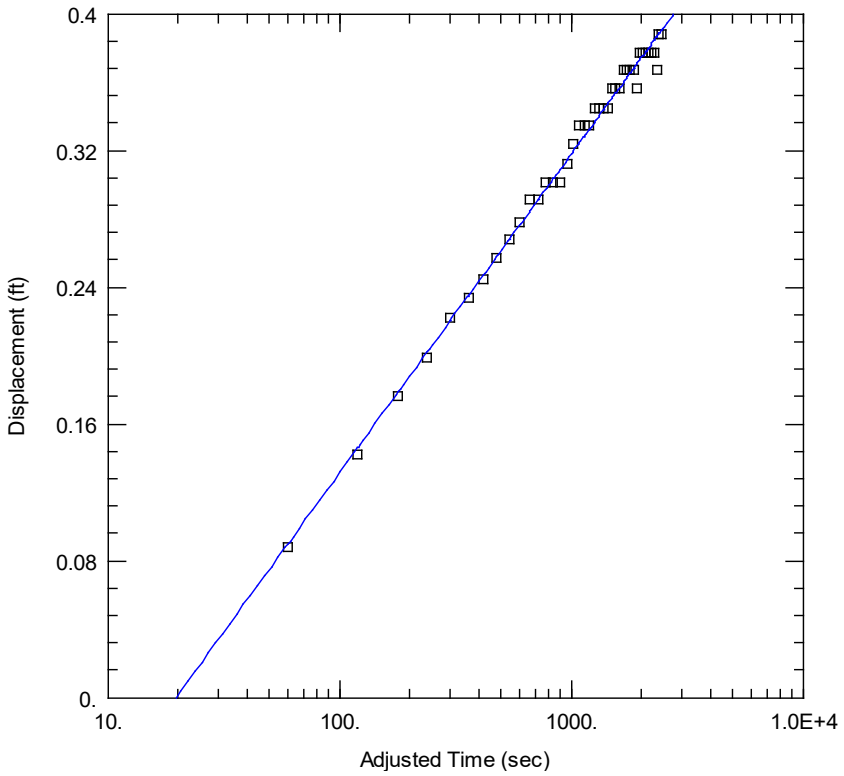


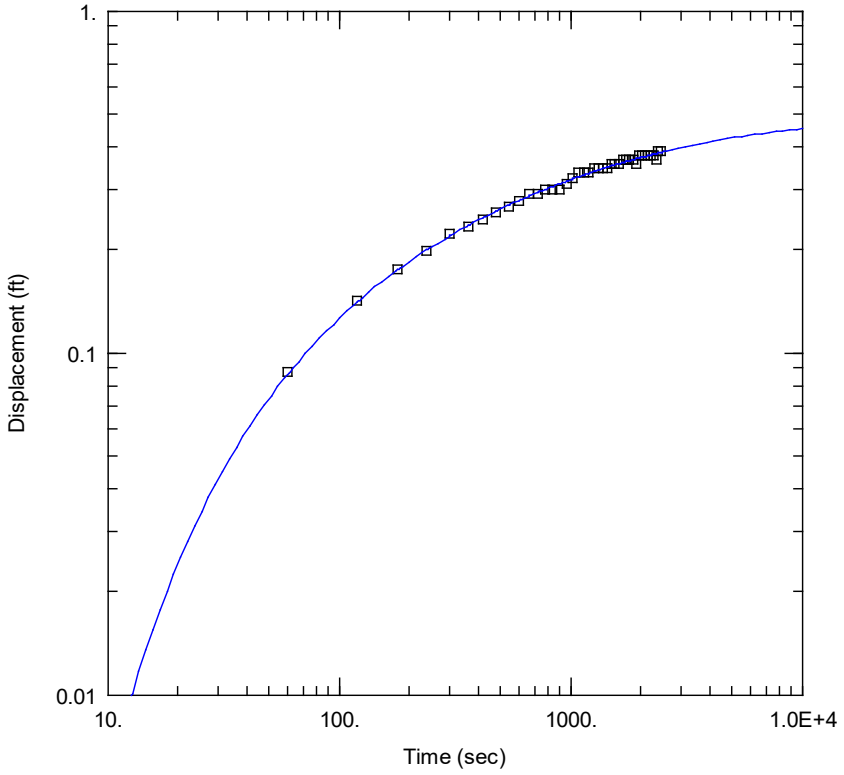
Obs. Wells
□ MW-304

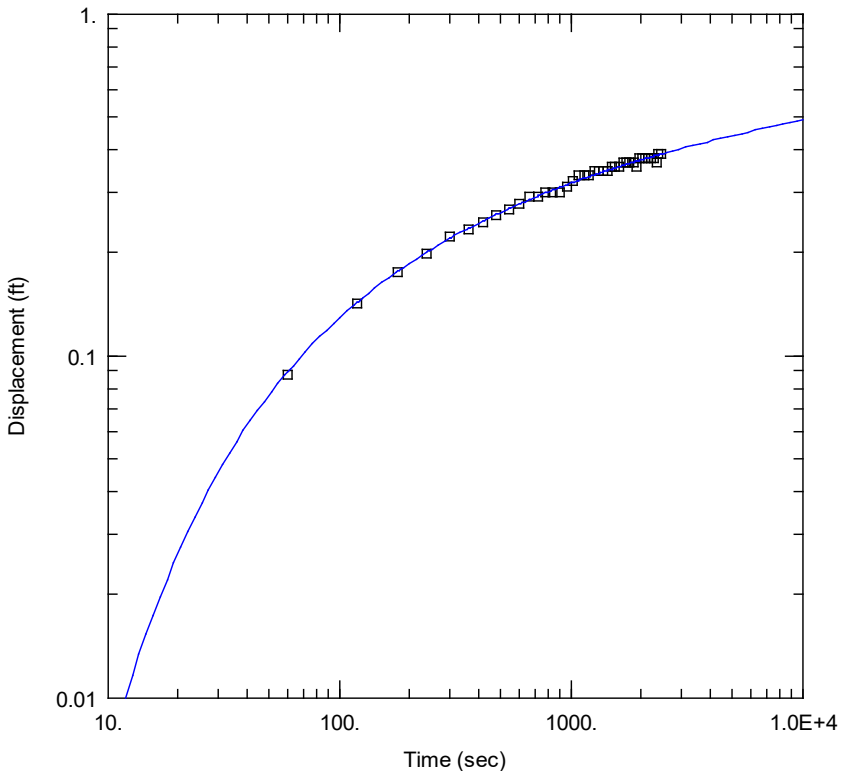
Aquifer Model
Confined

Solution
Theis

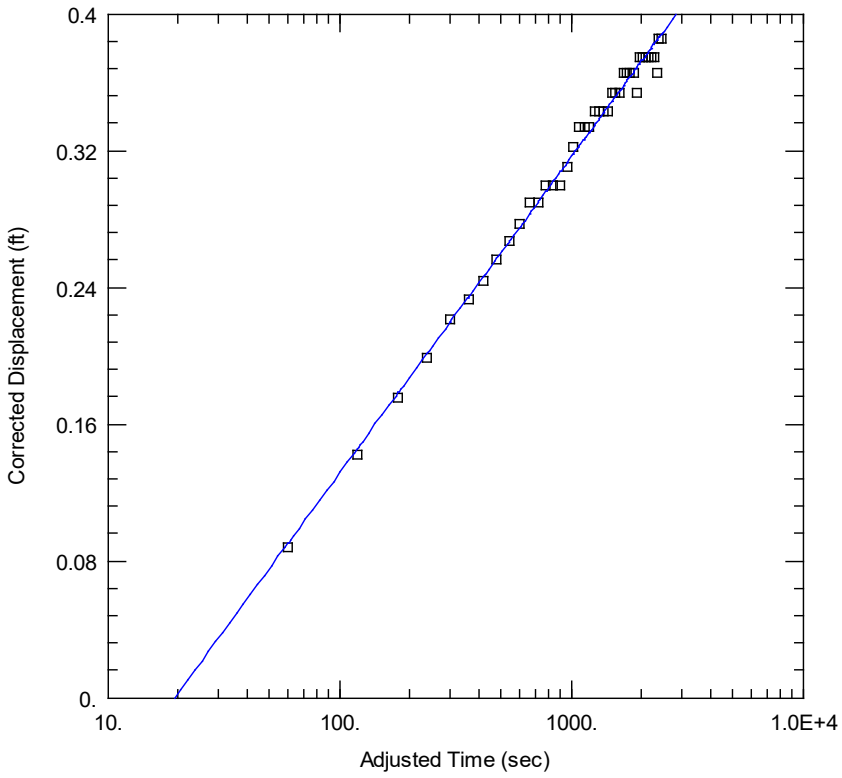
Parameters
T = 204.1 ft^2/day
S = 24.43
Kz/Kr = 205.
b = 33.81 ft


0.4
0.32
0.24
0.16
0.08
0.
Displacement (ft)
10.
100.
1000.
1.0E+4
Adjusted Time (sec)
Obs. Wells
MW-304
Aquifer Model
Confined
Solution
Cooper-Jacob
Parameters
T = 94.67 ft2/day
S = 6.999

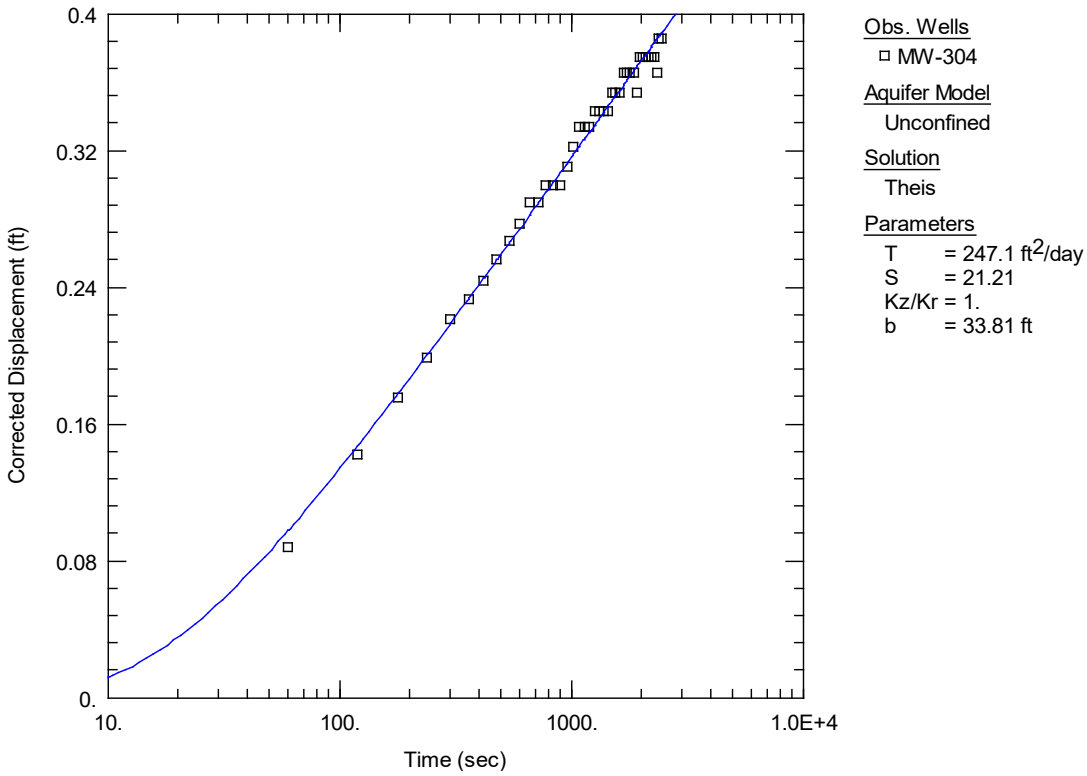

1.
0.1
0.01
Displacement (ft)
10.
100.
1000.
1.0E+4
Time (sec)
Obs. Wells
MW-304
Aquifer Model
Leaky
Solution
Hantush-Jacob
Parameters
T = 197. ft2/day
S = 25.5
r/B = 0.06322
Kz/Kr = 205.
b = 33.81 ft

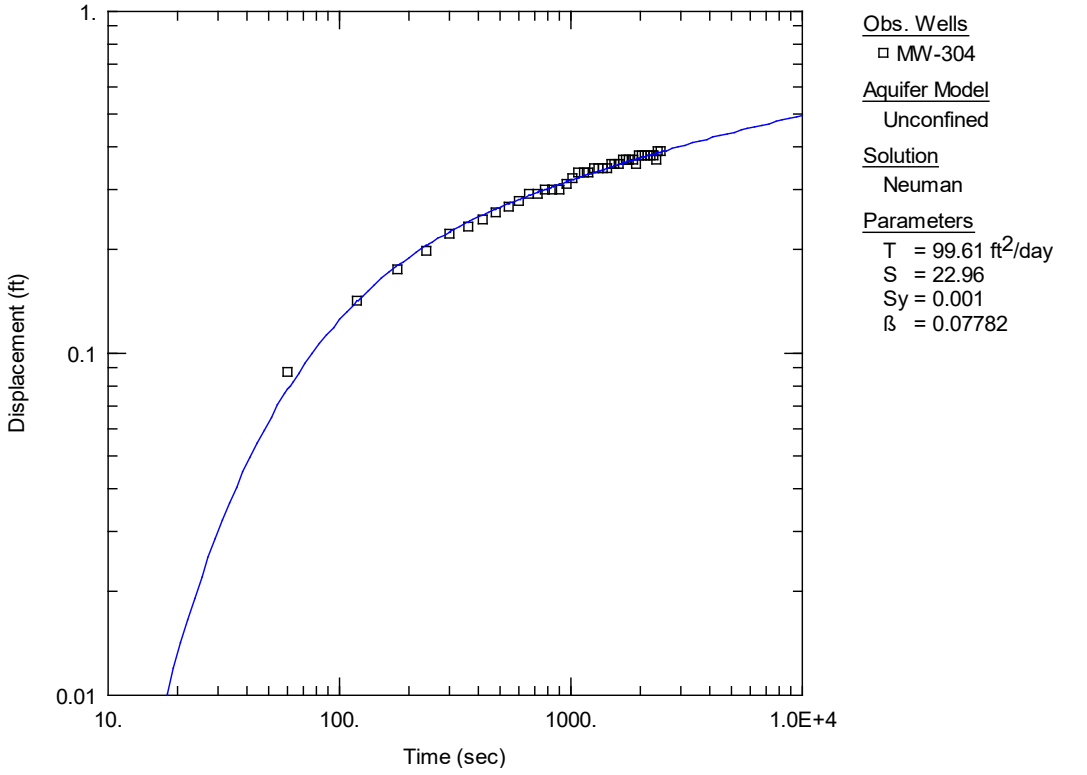


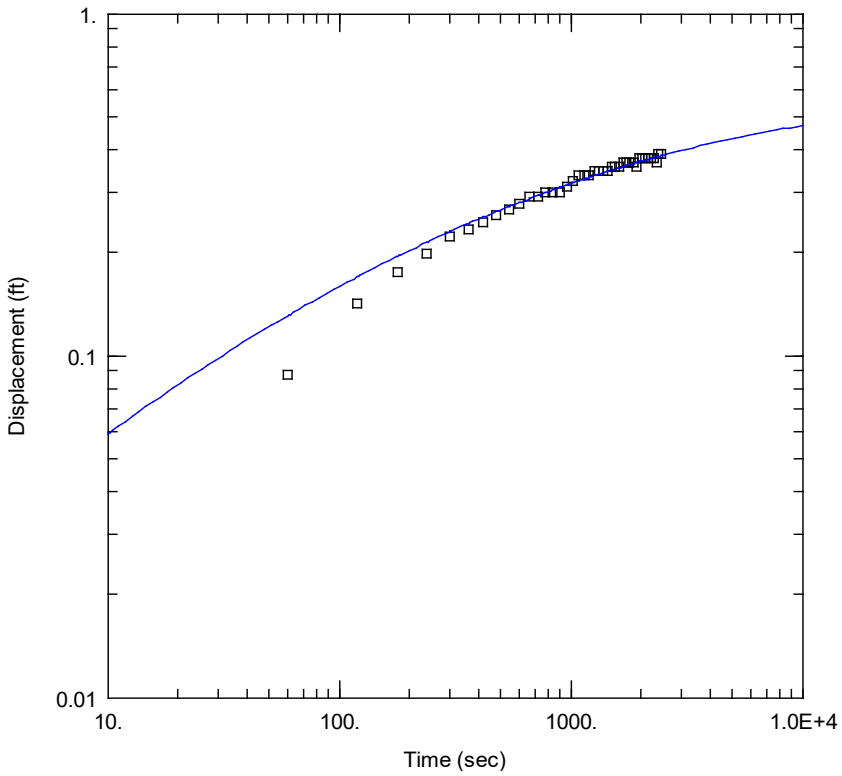
Obs. Wells
MW-304
Aquifer Model
Leaky
Solution
Hantush
Parameters
T = 65.62 ft^2/day
S = 7.901
r/B' = 1.0E-5
ß' = 0.0647
r/B" = 0.
ß" = 0.



Obs. Wells
MW-304
Aquifer Model
Unconfined
Solution
Cooper-Jacob
Parameters
T = 95.43 ft^2/day
S = 6.97


0.4
0.32
0.24
0.16
0.08
0.
Corrected Displacement (ft)
10.
100.
1000.
1.0E+4
Time (sec)
Obs. Wells
MW-304
Aquifer Model
Unconfined
Solution
Theis
Parameters
T = 247.1 ft2/day
S = 21.21
Kz/Kr = 1.
b = 33.81 ft


1.
0.1
0.01
Displacement (ft)
10.
100.
1000.
1.0E+4
Time (sec)
Obs. Wells
MW-304
Aquifer Model
Unconfined
Solution
Neuman
Parameters
T = 99.61 ft2/day
S = 22.96
Sy = 0.001
ß = 0.07782

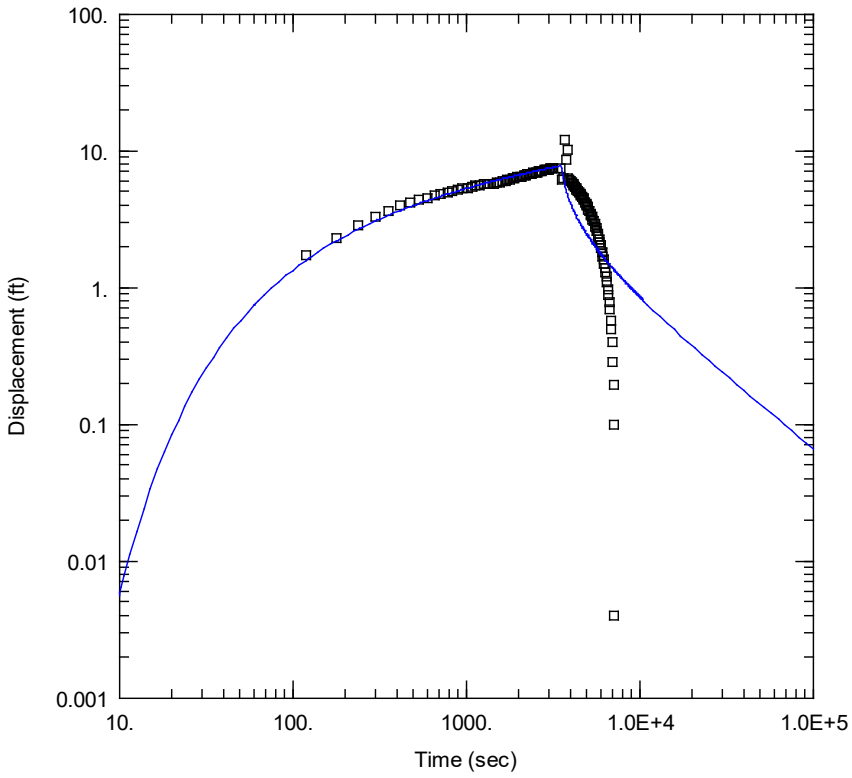


Obs. Wells
□ MW-304

Aquifer Model
Unconfined

Solution
Moench

Parameters
T = 201.1 ft^2/day
S = 33.01
Sy = 0.001
ß = 0.001245
Sw = 0.
r(w) = 0.08333 ft
r(c) = 0.08333 ft
alpha = 1.0E+30 sec^{-1}

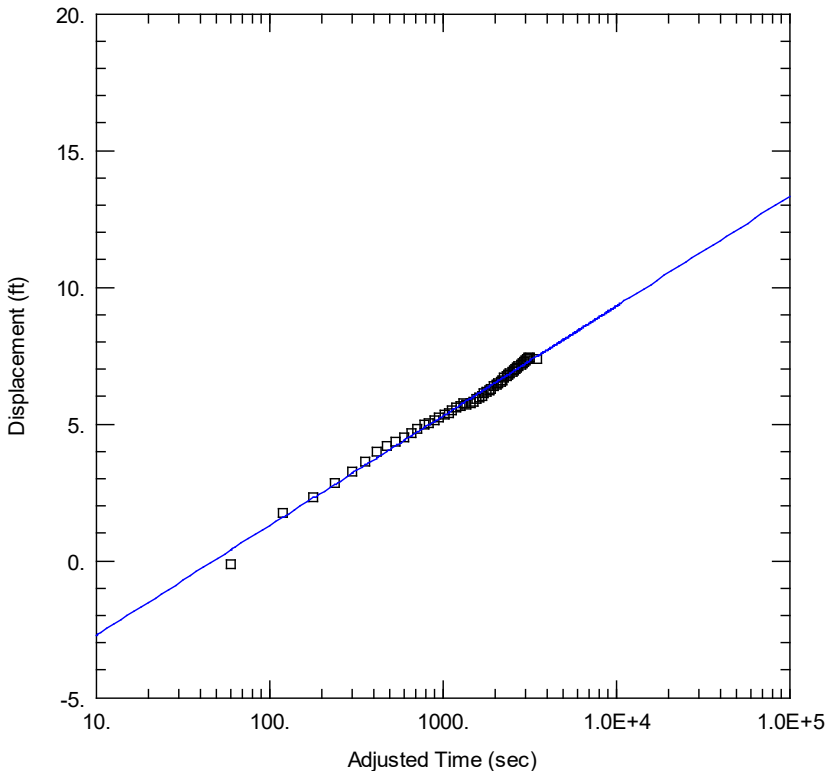


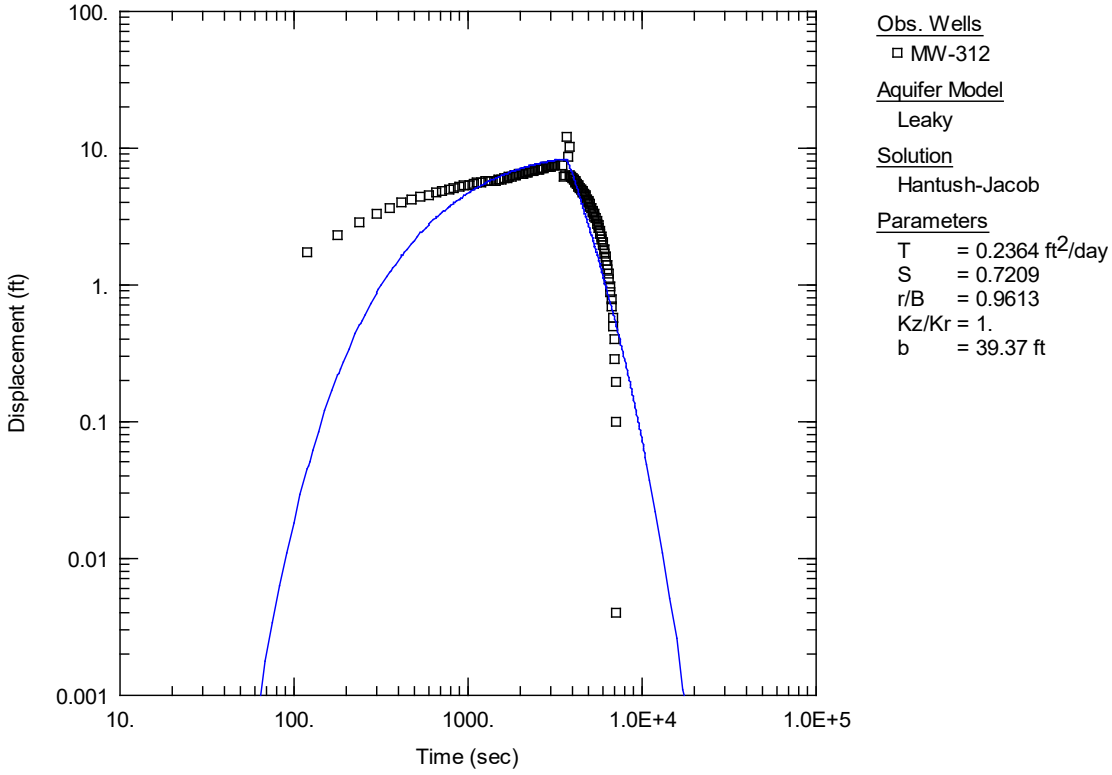
Obs. Wells
□ MW-312

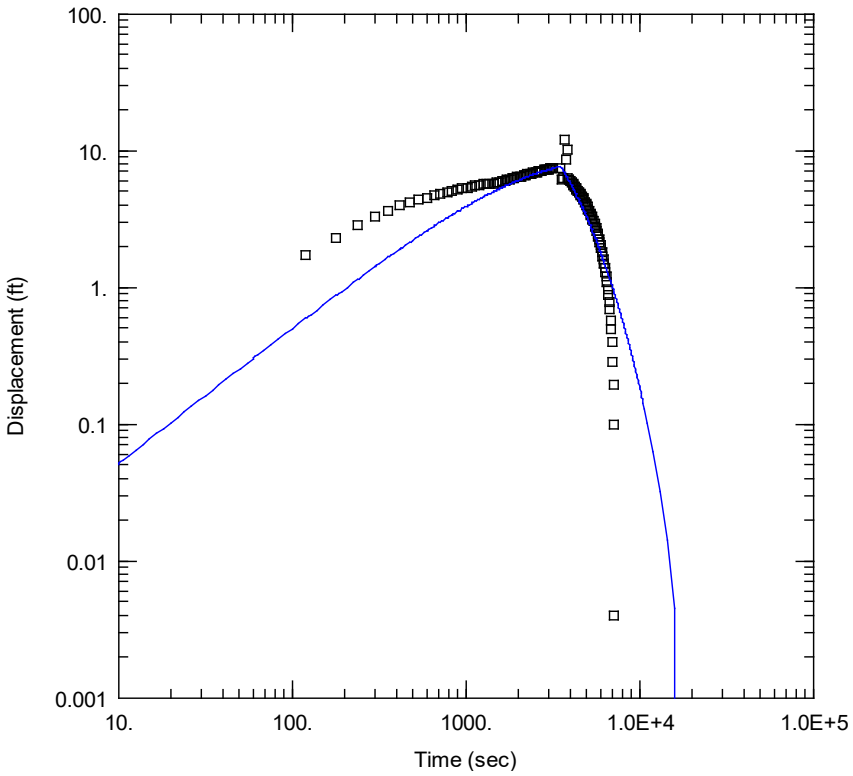
Aquifer Model
Confined

Solution
Theis

Parameters
T = 1.164 ft^2/day
S = 0.3312
Kz/Kr = 1.
b = 39.37 ft


20.
15.
10.
5.
0.
-5.
Displacement (ft)
10.
100.
1000.
1.0E+4
1.0E+5
Adjusted Time (sec)
Obs. Wells
MW-312
Aquifer Model
Confined
Solution
Cooper-Jacob
Parameters
T = 0.4397 ft2/day
S = 0.07949


100.
10.
1.
0.1
0.01
0.001
Displacement (ft)
10.
100.
1000.
1.0E+4
1.0E+5
Time (sec)
Obs. Wells
MW-312
Aquifer Model
Leaky
Solution
Hantush-Jacob
Parameters
T = 0.2364 ft2/day
S = 0.7209
r/B = 0.9613
Kz/Kr = 1.
b = 39.37 ft

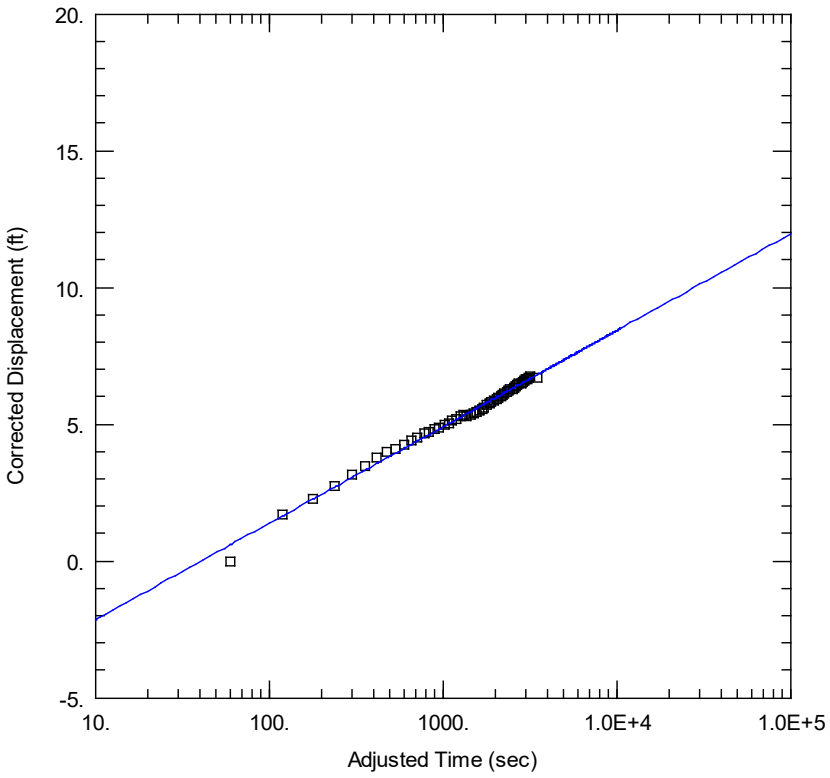


Obs. Wells
□ MW-312

Aquifer Model
Leaky

Solution
Moench (Case 1)

Parameters
T = 0.09033 ft^2/day
S = 0.0007965
r/B' = 1.499
ß' = 1.0E-5
r/B" = 0.
ß" = 0.
Sw = 0.
r(w) = 0.08333 ft
r(c) = 0.08333 ft



Obs. Wells
□ MW-312

Aquifer Model
Unconfined

Solution
Cooper-Jacob

Parameters
T = 0.5002 ft^2/day
S = 0.07696

ATTACHMENT F

IDW Documentation

Number _____ Date _____

Commodity _____ @ _____ per _____

Weighed by _____

COREY RECYCLING
494 Brewer Lake Road
Orrington, ME 04474
207-825-3595

Weigh-In:
ID#: 11
10:04 am
05/16/24
5380 lb

Weigh-Out:
ID#: 11
10:08 am
05/16/24
5380lb TRGross
5340lb TRTare
40lb TRNet

From _____

To _____

Address _____

_____

_____

Number _____ Date _____

Commodity _____ @ _____ per _____

Weighed by _____

COREY RECYCLING
494 Brewer Lake Road
Orrington, ME 04474
207-825-3595

Weigh-In:
ID#: 10
08:10 am
05/16/24
5080 lb

Weigh-Out:
ID#: 10
08:14 am
05/16/24
5080lb TRGross
4940lb TRTare Light
140lb TRNet

From _____

To _____

Address _____

_____

_____

Number _____ Date _____

Commodity _____ @ _____ per _____

Weighed by _____

COREY RECYCLING
494 Brewer Lake Road
Orrington, ME 04474
207-825-3595

Weigh-In:
ID#: 7
07:24 am
05/16/24
5160 lb

Weigh-Out:
ID#: 7
07:27 am
05/16/24
5160lb TRGross
4940lb TRTare
220lb TRNet # 1 pd

From _____

To _____

Address _____

_____

_____

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	(800) 839-3975	0269563

GENERATOR

5. Generator's Name and Mailing Address
United States Army Corps of Engrs New England District
696 Virginia Road
Concord, MA 01742
Generator's Phone: (978) 318-8147

Generator's Site Address (if different than mailing address)
(USACE)-New England District
Former Dow Air Force Base 250 Kilmarth St
N. Bangor, ME 04401

6. Transporter 1 Company Name
EQ NORTHEAST, INC.

U.S. EPA ID Number
MAD 084 814 136

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC SITE #2 LANDFILL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489

U.S. EPA ID Number
MID 048 090 633

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Hazardous Solid Waste, Not DOT Not RCRA Regulated	~~68~~ 519	DM	~~Est. 8,000~~	P	
2.		63		7,600		
3.						
4.						

13. Special Handling Instructions and Additional Information
1. D24-0478-WDI / PFAS Impacted IDW Solids (Soils and Poly Debris) [W:15.00.15661400]
SES # 24-0166 Mobil-T
R7022-05 - SES

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month 05 | Day 15 | Year 24

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David A Bishop | Signature | Month 05 | Day 15 | Year 24

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR'S/SHIPPER'S INITIAL COPY

REPUBLIC SERVICES

Form ID : 889518

WASTE/MATERIAL PROFILE FORM

A. GENERATOR/CUSTOMER INFORMATION

1. Generator: United States Army Corps of Engineers

2. Site Address: (USACE)-New England District,Former Dow Air Force Base, 250 Hildreth Street North

City: Bangor **Phone:** (978) 318-8147

State: ME **Zip:** 04401 **Country:** USA

☐ **P.O. required for payment?** *If yes, include:* 240166

8. Invoicing company: STRATEGIC ENVIRONMENTAL SERVICES INC

3. Mailing Address: 696 Virginia Road

City: Concord

State: MA **Zip:** 01742 **Country:** USA

9. Invoicing Address : 362 PUTNAM HILL ROAD

City: SUTTON

State: MA **Zip:** 01590 **Country:** USA

4. Technical Contact: Erin Kirby

10. Customer Contact: Cindy Pepin

5. Phone: (978) 318-8147 **Email:** Erin.Kirby@usace.army.mil

11. Phone: (603) 421-6391 **Email:** cpepin@strategic-es.com

6. Generator Status: ○ SQG ○ LQG ○ VSQG/CESQG ◉ Not Applicable

7. EPA ID #: N/A **NAICS CODE:** 924120 **State ID #:**

B. WASTE/MATERIAL STREAM

1. Common Name: PFAS Impacted IDW Solids (Soils and Poly Debris)

2. Generating Process: See profile form - continuation (Generating Process) for full description

3. Source Code: G19 **Form Code:** W301

C. SHIPPING/PACKAGING INFORMATION

1. DOT Hazardous Materials? ○ Yes ◉ No **Proper Shipping Name:** Material Not Regulated By D.O.T.

2. Additional Description:

3. RQ: ○ Yes ◉ No **RQ Reason:** **RQ Threshold:** **UN/NA#:**

Packing Group: **ERG#:** **Hazard Class:**

4. DOT Special Permit? ○ Yes ◉ No **Permit #:**

5. 24-Hour Emergency Phone: (508) 757-7782 **6. DOT Inhalation Hazard?** ○ Yes ◉ No

7. Container Type: ☐ Bulk ☐ Totes ☐ Pallet ☐ Boxes ☑ Drums ☐ Cylinder **Container size:** 55 Gallon Drum

☐ Lab Pack *(If 40 CFR 264.316/49 CFR 173.12(b) Lab Pack Inventory lists required)*

☐ Combination Containers *(e.g., inner containers)* **Describe:**

☐ Other, **Describe:**

8. Volume/Frequency: **Volume:** 15600 **Units:** Pounds

Frequency: ○ Year ○ Quarterly ○ Monthly ◉ 1 Time ○ Other, **Describe:**

D. PHYSICAL PROPERTIES (See Continuation for D.1)

1. Physical Description *(e.g. soil, water, PPE, debris, sorbent, etc. Include 100% of container content. If debris, provide dimensions & weight.)*

Description	Typical (%)	Min (%)	Max (%)
IDW Soils	100	0	100
Poly sheeting, used for decon stations	100	0	100
Sample ID DOW-SWC-01 TCLP data in SQ5109 CD	0	0	0.0

2. Odor: ◉ None ○ Slight ○ Strong **Odor type:** ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Other **Describe:**

3. Physical State: (at 70°F) ☑ Solid ☐ Dust/Powder ☑ Debris ☐ Sludge/Slurry ☐ Liquid ☐ Gas/Aerosol ☐ Varies

4. Color: BROWN:VARIES **5. Liquid phases:** ○ Single ○ Double Layer ○ Multi-layer ◉ N/A

6.Is it solid using the paint filter test? *(40 CFR Part 264.314(b))* ◉ Yes (Solid) ○ No (Not Solid)

Is there a possibility of incidental liquids from transportation? ○ Yes ◉ No

7. pH: (If solid, provide estimated pH if mixed 50:50 with water) ☐ <=2 ☐ 2.1 - 4.9 ☑ 5 - 10 ☐ 10.1 - 12.4 ☐ >=12.5

8. Flash Point: **°F** and/or ☐ <90 **°F** ☐ 90 - 139 **°F** ☑ 140 - 199 **°F** ☐ >=200 **°F** ☐ Does not flash ☐ Flammable solid

BTU/lb. Value: and/or ◉ <5000 BTU ○ >=5000 BTU

9. Are there any known handling/treatment issues involving this material? *(i.e. Describe whether the waste stream has ever been the direct or suspected cause of a fire or other reaction, and whether there are any specific controls you use to prevent any adverse reactions?)* ○ Yes ◉ No

E. CHARACTERIZATION & CHEMICAL COMPOSITION

1. Robstown Facility Customers - Waste/Material Type: ○ Industrial ○ Non-Industrial ○ N/A **TX State Code:**

Pennsylvania Residual Waste: ○ Yes ◉ No **PA State Code (s):**

2. State Waste Codes:	None									
3. RCRA Waste Codes:	None									

If None, is it exempt from the definition of "Solid Waste" or "Hazardous Waste"? ○ Yes ◉ No

4. If F006-F009, F012, or F019, are Cyanides used in the process? ○ Yes ◉ No (If yes, Total and Amenable CN (9010/9012) analysis required)

5. Knowledge is from: ☑ Lab analysis *(requires attachment)* ☐ SDS/MSDS *(requires attachment)* ☑ Process/generator knowledge

6. Chemical Composition *(include all applicable UHC's, TRI Section 313 chemicals, OSHA Hazardous Materials, PFAS Constituents, etc.)*

Constituent	Units	TCLP	Totals	Typical	Min	Max	UHC	Exceeds LDR
Barium	ug/L	◉	○	99.1			☐	☐
Perfluorooctanoic Acid (PFOA)	ppb	○	◉		0.17	0.38	☐	☐
Perfluorooctane sulfonic acid (PFOS)	ppb	○	◉		2.8	4.8	☐	☐
Perfluorohexanesulfonic acid (PFHxS)	ppb	○	◉	1	1	1	☐	☐
6:2 Fluorotelomer Sulfonic Acid (6:2 FTSA)	ppb	○	◉		<0.35	50	☐	☐
Perfluorohexanoic Acid (PFHxA)	ppb	○	◉		0.19	0.33	☐	☐
Perfluorobutanesulfonic acid (PFBS)	ppb	○	◉		<0.07	0.073	☐	☐
Perfluoropentane-1-sulfonic acid (PFPeS)	ppb	○	◉		<0.083	0.085	☐	☐

F. ADDITIONAL PROPERTIES

1. Explosive:	○ Yes ◉ No	**2. Reactive Sulfides :** **ppm**	○ Yes ◉ No
3. Shock Sensitive:	○ Yes ◉ No	**4. Reactive Cyanides:** **ppm**	○ Yes ◉ No
5. Radioactive:	○ Yes ◉ No	**6. Reactive Other:**	○ Yes ◉ No
		Describe:	
7. Medical/Infectious/Biohazard Waste:	○ Yes ◉ No	**8. Polychlorinated Biphenyls (PCB):**	○ Yes ◉ No
9. Dioxins and/or Furans:	○ Yes ◉ No	**10. Metal Fines/Powder/Paste:**	○ Yes ◉ No
11. Pyrophoric:	○ Yes ◉ No	**12. Temperature Controlled:**	○ Yes ◉ No
13. Thermally Unstable:	○ Yes ◉ No	**14. Biodegradable Sorbents:**	○ Yes ◉ No
15. Compressed Gas:	○ Yes ◉ No	**16. Used Oil:**	○ Yes ◉ No
17. Oxidizer:	○ Yes ◉ No	**18. Tires:**	○ Yes ◉ No
19. Organic Peroxide:	○ Yes ◉ No	**20. Beryllium:**	○ Yes ◉ No
21. Ammonia/Ammonia Compounds:	○ Yes ◉ No	**22. Per-and Polyfluoroalkyl Substances (PFAS):**	◉ Yes ○ No

23. Asbestos: ○ Yes ◉ **No**

24. Hazardous Secondary Material: ○ Yes ◉ No

25. Are pharmaceutical wastes profiled under this approval subject to a prescription? ○ Yes ○ No ◉ N/A

Form ID: 889518

G. REGULATORY INFORMATION

1. Volatile Organic Concentration: *(Per 40 CFR Part 264.1083 & 265.1084)* ◉ <500 ppmw ○ ≥500 ppmw

2. Has the material been treated after the initial point of generation? ○ Yes ◉ No

3. If RCRA Hazardous:

- ○ Wastewater WW=<1% TSS & TOC; 40 CFR Part 268.2
- ○ Non-wastewater TSS/TOC>WW
- ○ Alternative Treatment Standards for soil? > 50% soil; 40 CFR Part 268.49
- ○ Alternative Treatment Standards for debris? 40 CFR Part 268.2(g) & (h); >50% of waste is >2.5 inch size
  - ☐ I confirm debris cannot reasonably be separated from non-debris by simple physical or mechanical means
  - ☐ I confirm debris has not been mixed/diluted with non-debris as prohibited in 40 CFR Part 268.3
- ○ Waste meets LDR Treatment Standards

4. Treatment subcategory: *(if applicable)*

5. Is the site or waste/material, subject to NESHAP/MACT standard(s)? ○ Yes ◉ No

6. Is the waste/material RCRA Hazardous containing Benzene and originating at a petroleum refinery (SIC 2911), chemical manufacturing plant (SIC 2800 thru 2899) or Coke by-product recovery plant (SIC 3312)?

☐ Yes ☑ No *(If yes,complete the Benzene Waste Operations Supplement and if applicable the Thermal Supplement)*

H. GENERATOR'S CERTIFICATION

1. Is a specific facility or treatment technology requested? ○ Yes ◉ No

2. Requested Technology:

3. Thermal Processing: ○ Yes ◉ No

4. Other specific restrictions requested:

5. Requested Facility:	

Certificate Statement:

I certify that all information (including attachments) is complete, factual and is an accurate representation of the known and suspected hazards pertaining to waste/material described herein. I authorize Republic Services personnel to add supplemental information to the Waste/Material Profile Form, provided I am contacted and grant permission to do so. Republic Services may require re-submittal of the Waste/Material Profile Form if substantial changes are determined necessary. I authorize Republic Services personnel to obtain a sample from any waste/material shipment for purposes of verification and confirmation and understand that waste/material that does not conform to specifications described in this Waste/Material Profile Form may be rejected by Republic Services. I certify that I am familiar with the waste/material described herein through analysis and/or process knowledge and that all information provided is true, accurate, representative and complete and that this Waste/Material Profile Form was completed in accordance with the instructions provided.

If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste/material characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.

Signed on behalf of

Print Name:	Erin Kirby	**Signature:**	
Title:	Project Manager		
Date:		**Company:**	US Army Corps of Engineers-NE District

Form ID: 889518

WASTE/MATERIAL PROFILE FORM - CONTINUATION (Generating Process)

B. WASTE/MATERIAL STREAM

2. Generating Process: Investigation derived wastes (IDW) from soil investigation in an area adjacent to a Formerly Used Defense Site (FUDS), a formerly active military airfield. During prior investigations, volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), PCBs and metals were detected. Note that PCBs were never detected at concentrations above 10 mg/kg in soil samples at the site and metals were suspected as a potential contaminant due to the identification of yellow paint on surfaces during site reconnaissance. Metals have not been detected in site soils above site background levels.

REPUBLIC SERVICES

Form ID : 889518

WASTE/MATERIAL PROFILE FORM - CONTINUATION (Physical Description)

D. PHYSICAL PROPERTIES

1. Physical Description :

Description	Typical (%)	Min (%)	Max (%)
Sample DOW-SWC-01, DOW-PFAS-1012 PFAS in SQ5564	0	0	0.0

MABBETT & ASSOCIATES INC

FORMER DOW AFB

SQ5109

Ms. Leslie Dimond
207-874-2400

KATAHDIN ANALYTICAL SERVICES
600 TECHNOLOGY WAY
SCARBOROUGH, ME 04074

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SAMPLE DATA PACKAGE

NARRATIVE
KATAHDIN ANALYTICAL SERVICES
MABBETT & ASSOCIATES INC.
FORMER DOW AFB
SQ5109

Sample Receipt

The following sample was received on September 21, 2023 and was logged in under Katahdin Analytical Services work order number SQ5109 for a hardcopy due date of October 19, 2023.

KATAHDIN	MABBETT
Sample No.	Sample Identification
SQ5109-1	DOW-SWC-01

The sample was logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAP standards unless otherwise noted in this narrative or in the Report of Analysis.

We certify that the test results provided in this report are accredited under the laboratory's ISO/IEC 17025:2017 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation L2223.

Analytes which are reported but not listed on our ANAB scope of accreditation will be "^" flagged and the following language will be included in the case narrative for all DoD compliant work: "^" Indicates this analyte is not included on Katahdin Analytical Services DoD-ELAP Scope of Accreditation.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Heather Manz**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The sample of Work Order SQ5109 was analyzed in accordance with Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, EPA publication SW-846, Third Edition, Final Updates I (1993), II (1995), IIA (1994), IIB (1995), III (1997), IIIA (1999), IIIB (2005), IV (2008), V (2015) and VI (2019), and/or for the specific methods listed below or on the Report of Analysis.

8260C TCLP Analysis

Method 1311 uses a sample aliquot of 25g for TCLP extraction of volatile compounds. Katahdin utilized approximately a 10g sample aliquot for this analysis.

8151A TCLP Analysis

There were no protocol deviations or observations noted by the organics laboratory staff for this analysis.

8081B TCLP Analysis

The closing CV (file 1QJ00051) had low responses for the target analytes endrin, 4,4'-DDT, and methoxychlor on both channels that resulted in %Ds that were outside of the DoD QSM acceptance limits of ±20%. The low responses are likely due to interference from samples that were analyzed preceding this CV. Since the opening CV was acceptable and subsequent instrument maintenance resulted in an acceptable CV that confirmed interference, the associated samples were not reanalyzed.

The TCLP blank WG343221-6, associated with sample SQ5109-1RE, was extracted and analyzed on a different day than the sample. Therefore, the report includes a Report of Analysis (ROA) for the TCLP blank but no supporting data. The supporting data for the sample and its associated extracted QC are included in the report.

8270D TCLP Analysis

Note: The Form VII has a column for %D that is set to 20%. The DoD QSM criterion for an opening CV is 20%D and a closing CV is 50%D. All of the compounds in the CV's were evaluated to either 20% criteria for opening CV's or 50% criteria for closing CV's.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of Katahdin Work Order SQ5109 were prepared and analyzed for metals in accordance with Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, EPA publication SW-846, Third Edition, Final Updates I (1993), II (1995), IIA (1994), IIB (1995), III (1997), IIIA (1999), IIIB (2005), IV (2008), V (2015), and VI (2019). Office of Solid Waste and Emergency Response, U.S. EPA.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Numbers SQ5109-1 were digested for ICP analysis on 9/28/2023 (QC Batch QI28ICW2) in accordance with USEPA Method 3010A.

ICP analyses of Katahdin Work Order SQ5109 sample digestates were performed using a Thermo iCAP 6500 ICP spectrometer in accordance with USEPA Method 6010C. All samples were analyzed within holding times and all analytical run QC criteria were met.

TCLP Extraction (EPA Method 1311)

Katahdin sample numbers SQ5109 are solid-matrix samples that were subjected to TCLP extraction on 09/27/2023 in accordance with USEPA Method 1311. The TCLP fluid blank associated with these samples is identified as PBT1813A. The measured barium concentration (0.0575 mg/L), in the TCLP fluid blank PBT1813A, is above the laboratory's reporting limit. However, because the concentrations of barium in

the TCLP blank and TCLP extracts are well below the regulatory limit, reanalysis was not required. This sample was prepped with duplicate matrix-spiked aliquots prior to digestion.

Analysis of Mercury by Cold Vapor Atomic Absorption (CVAA)

Aqueous-matrix Katahdin Sample Numbers SQ5109-1 was digested for mercury analysis on 09/28/2023 (QC Batch QI28HGW1) in accordance with USEPA Method 7470A.

Mercury analyses of the Katahdin Work Order SQ5109 sample digestates were performed using a Teledyne M7600 automated mercury analyzer in accordance with USEPA Method 7470A. All analytical run QC criteria were met and all samples were analyzed within holding time.

Matrix QC Results

All matrix QC results were within project acceptance criteria.

Reporting of Metals Results

Per client request, analytical results for client samples on Form I and preparation blanks on Form IIIP have been reported using the laboratory's limits of detection (LOD). All results were evaluated down to the laboratory's method detection limits (MDLs). Results that fall between the MDL and the LOQ are flagged with "J" in the C-qualifier column, and the measured concentration appears in the concentration column. Results that are less than the MDL are flagged with "U" in the C-qualifier column, and the LOD is listed in the concentration column. These LOQs, MDLs and LODs have been adjusted for each sample based on the sample amounts used in preparation and analysis.

Analytical results on Forms VA, VD, VII, and IX for client samples, matrix QC samples (duplicates and matrix spikes), and laboratory control samples have been reported down to the laboratory's method detection limits (MDLs). Analytical results that are below the MDLs are flagged with "U" in the C-qualifier column, and the adjusted LOD is listed in the concentration column.

Analytical results for instrument run QC samples (ICVs, ICBs, etc.) have been reported down to the laboratory's instrument detection limits (IDLs).

IDLs, LODs, MDLs, and LOQs are listed on Form 10 of the accompanying data package.

Wet Chemistry Analysis

The sample of Work Order SQ5109 was analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for reactive cyanide, reactive sulfide, pH, and ignitability were performed according to Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, EPA publication SW-846, Third Edition, Final Updates I (1993), II (1995), IIA (1994), IIB (1995), III (1997), IIIA (1999), IIIB (2005), IV (2008), V (2015) and VI (2019).

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Limit of Quantitation (LOQ)

are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U LOD", where "LOD" is the numerical value of the Limit of Detection.

All analyses were performed within analytical holding times and all quality control criteria were met.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Quality Assurance Officer, or their designee, as verified by the following signature.

Leslie Dimond ***Nov 20, 2023***

Leslie Dimond
Quality Assurance Officer

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin Analytical Services, LLC. **Sample Receipt Condition Report**

Client: Mabbett	KAS PM: HHM	Sampled By: Client
Project:	KIMS Entry By: JCB	Delivered By: Client
KAS Work Order#: SQ5108-5110	KIMS Review By: HHM	Received By: EP
	Labeled By: JCB	
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 9/21/23 1635

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		/			
2. Chain of Custody present in cooler?	/				
3. Chain of Custody signed by client?	/				
4. Chain of Custody matches samples?	/				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	/				Temp (°C): 2.3 — Thermometer ID: IR-1
Samples received at <6 °C w/o freezing?	/				Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?	/				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	/				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				/	Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?	/				
Soil/Sediment:					
Received in airtight container?	/				
Received in methanol?	/				
Methanol covering soil?	/				
D.I. Water - Received within 48 hour HT?	/			-	
7. Trip Blank present in cooler?	/				
8. Proper sample containers and volume?			X		Below.
9. Samples within hold time upon receipt?	/				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2			X		EB Metals pres @ login HNO_3 = ~~MR3702~~ MR3701
Sulfide - >9				/	
Cyanide – pH >12				/	
11. Bottleware Prepped on:					

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Limited EB volume - only ~400 mL for PAH - SQ5110-1

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client	Contact	Phone #	Fax #
Mabbett & Associates Inc.	David Schanzle	(781)275-6050	( )

Address: 105 Central St., Suite 4100 | City: Stoneham | State: MA | Zip Code: 02180

Purchase Order # | Proj. Name / No.: R2022057/Dow Fuds RJ | Katahdin Quote #: A03142301

Bill (if different than above) | Address

Sampler (Print / Sign): Michael Bloom / Michael Bloom | Copies To: DPS

LAB USE ONLY | WORK ORDER #: SQ5109 | KATAHDIN PROJECT NUMBER

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

★	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	ANALYSIS AND CONTAINER TYPE PRESERVATIVES: TCLP - ZHE / 1311, SW8260C (Filt. ☐Y ☐N)	TCLP SVOA / 1311, SW8270 (Filt. ☐Y ☐N)	TCLP Pesticide SW8081 (Filt. ☐Y ☐N)	TCLP Herbicides SW8151 (Filt. ☐Y ☐N)	TCLP Metals SW 6010/SW7470 (Filt. ☐Y ☐N)	pH SW9045 (Filt. ☐Y ☐N)	Ignitability, Reactivity - Sulfide & Cyanide SW7.3.3.2 (Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)
	DOW-SWC-01	9/21/23 0930	Soil	5	✓	✓	✓	✓	✓	✓	✓			
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COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
	9/21/23 16:35				
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody (ln01)

Sep. 27, 2023
02:37 PM

Login Number: SQ5109

Account: MABBETT001
Mabbett & Associates Inc

Project: MABBETT-DOWAFB

Primary Report Address:
Helen Douglas
Mabbett & Associates, Inc.
105 Central Street
Suite 4100
Stonham, MA 02180-1260
USA
douglas@mabbett.com

Primary Invoice Address:
Accounts Payable
Mabbett & Associates Inc
105 Central Street
Suite 4100
Stoneham,MA 02180

accountspayable@mabbett.com

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming: MABBETT-DOWAFB

Login Information

ANALYSIS INSTRUCTIONS	:	DOD, ND to LOD w/ J flags. Use 2-4X detection limits.
CHECK NO.	:	
CLIENT PO#	:	D01ME0004 02, R2022057.000
CLIENT PROJECT MANAGE	:	Stephen Vetere
CONTRACT	:	W912WJ-19-D-0005
COOLER TEMPERATURE	:	2.3
DELIVERY SERVICES	:	Client
EDD FORMAT	:	WESTMDLPQLLOD-XLS
ISM INSTRUCTIONS	:	
LOGIN INITIALS	:	JCB
PM	:	HHM
PROJECT NAME	:	Former Dow AFB
QC LEVEL	:	IV
REPORT INSTRUCTIONS	:	No grainsize or IDW in FUDS. Email login, noncon, & final reports to schanzle@mabbett.com & douglas@mabbett.com.
SDG ID	:	
SDG STATUS	:	
TEMPLATE	:	
VERBAL TAT	:	



3:03 pm, Sep 27, 2023

Run Reports: Logindetail

Login Number: SQ5109

Account: MABBETT001

Mabbett & Associates Inc

Project: MABBETT-DOWAFB

Quote/Incoming: MABBETT-DOWAFB

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Verbal Due Date	Mailed
SQ5109-1	DOW-SWC-01	21-SEP-23 09:30	21-SEP-23		19-OCT-23		

Sample Comments:

Matrix		*Product*	*Hold Date (shortest)*	*Notes*	*Bottle Type*
Service	S	REPORTING			
Solid	S	SW1010-IGNITABILITY	05-OCT-23		4oz Glass
Solid	S	SW1311-EXT	05-OCT-23		8oz Glass
Solid	S	SW1311-EXT-HERB	05-OCT-23		
Solid	S	SW1311-EXT-PEST	05-OCT-23		
Solid	S	SW1311-EXT-SVOA			4oz Glass
Solid	S	SW1311-EXT-VOA	05-OCT-23		4oz Glass
Aqueous	S	SW3010-PREP-TCLP	19-MAR-24		250mL Plastic+HNO3
Solid	S	SW7.3.3-REAC-CN-LOD	05-OCT-23		8oz Glass
Solid	S	SW7.3.4-REAC-SLF-LOD	28-SEP-23		8oz Glass
Solid	S	SW9045D-PH SOIL	23-SEP-23	SHORT	4oz Glass
Aqueous	S	TCLP-ARSENIC	19-MAR-24		250mL Plastic+HNO3
Aqueous	S	TCLP-BARIUM	19-MAR-24		250mL Plastic+HNO3
Aqueous	S	TCLP-CADMIUM	19-MAR-24		250mL Plastic+HNO3
Aqueous	S	TCLP-CHROMIUM	19-MAR-24		250mL Plastic+HNO3
Aqueous	S	TCLP-LEAD	19-MAR-24		250mL Plastic+HNO3
Aqueous	S	TCLP-MERCURY	19-OCT-23		250mL Plastic+HNO3
Aqueous	S	TCLP-SELENIUM	19-MAR-24		250mL Plastic+HNO3
Aqueous	S	TCLP-SILVER	19-MAR-24		250mL Plastic+HNO3
Aqueous	S	TCLP-SW8081-LOD	05-OCT-23		1L N-Amber Glass
Aqueous	S	TCLP-SW8151-LOD	05-OCT-23		1L N-Amber Glass
Aqueous	S	TCLP-SW8260-LOD	05-OCT-23		40 mL Vial
Aqueous	S	TCLP-SW8270-LOD	05-OCT-23		1L N-Amber Glass
Service	S	WASTE-DISPOSAL			

Total Samples: 1 ***Total Analyses: 24***

3:03 pm, Sep 27, 2023

Run Reports: Logindetail

SAMPLE DATA SUMMARY PACKAGE

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL, "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery or percent RPD (relative percent difference) was outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

And/or

J Used for Dual Column analytes when there is a greater than 40% difference for detected concentrations between the two GC/HPLC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

I Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration (ICAL).

D Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration Verification (ICV).

C Indicates that the flagged compound did not meet DoD criteria in the corresponding opening Calibration Verification (CV).

V Indicates that the flagged compound did not meet DoD criteria in the corresponding closing Calibration Verification (CV).

L/LL Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M/MM Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike (MS) and/or Matrix Spike Duplicate MSD) prepared and/or analyzed concurrently with the native sample.

H Indicates the flagged compound was detected on the primary column but was not detected on the confirmation column therefore the compound is not reported as a positive detection. (SW846 8330A/B only)

METALS SAMPLE FLAGGING

FLAG	SPECIFIED MEANING
E	The reported value is estimated because of the presence of interference (as indicated by serial dilution).
N	The pre-digestion spiked sample recovery is not within control limits.
*	The duplicate sample analysis relative percent difference (RPD) is not within control limits.
B	Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.
A	The post-digestion spiked sample recovery is not within control limits.
•	Analytical run QC sample (e.g. ICV, CCV, ICB, CCB, ICSA, ICSAB) not within control limits.
U	The analyte was not detected above the specified level. This level may be the Limit of Quantitation (LOQ) (previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client. Note: All results reported as “U” MDL have a 50% rate for false negatives compared to those results reported as “U” PQL/LOQ or “U” LOD, where the rate of false negatives is <1%.
J	The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ) (previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).
Q	One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery or CCV).

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 Please refer to cover letter or narrative for further information.

H_ Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

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Report of Analytical Results

SDG: SQ5109
Lab ID: SQ5109-1DL
Client ID: DOW-SWC-01
Matrix: AQ
Lab File ID: S6678.D

Sample Date: 21-SEP-23
Extract Date: 28-SEP-23
Extracted By: CR
Extraction Method: 5030/1311
Lab Prep Batch: WG343210

Report Date: 13-OCT-23
Analysis Date: 28-SEP-23
Analyst: CR
Analysis Method: SW846 8260C
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	15	ug/L	20	1	20.	7.4	15.
Carbon Tetrachloride	U	10	ug/L	20	1	20.	5.0	10.
Chlorobenzene	U	10	ug/L	20	1	20.	5.0	10.
Chloroform	U	15	ug/L	20	1	20.	7.4	15.
1,2-Dichloroethane	U	10	ug/L	20	1	20.	5.0	10.
1,1-Dichloroethene	U	15	ug/L	20	1	20.	7.4	15.
2-Butanone	U	60	ug/L	20	5	100	30.	60.
Tetrachloroethene	U	20	ug/L	20	2	40.	10.	20.
Trichloroethene	U	15	ug/L	20	1	20.	7.4	15.
Vinyl Chloride	U	20	ug/L	20	2	40.	10.	20.
1,2-Dichloroethane-D4		100.	%					
Toluene-D8		99.8	%					
p-Bromofluorobenzene		99.0	%					
Dibromofluoromethane		97.0	%					

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Report of Analytical Results

SDG: SQ5109
Lab ID: SQ5109-1
Client ID: DOW-SWC-01
Matrix: AQ
Lab File ID: U1653.D

Sample Date: 21-SEP-23
Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: 3510C/1311
Lab Prep Batch: WG343378

Report Date: 17-NOV-23
Analysis Date: 19-OCT-23
Analyst: DT
Analysis Method: SW846 8270D
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pyridine	U	38	ug/L	1	10	50.	18.	38.
1,4-Dichlorobenzene	U	38	ug/L	1	10	50.	18.	38.
2-Methylphenol	U	55	ug/L	1	15	75.	28.	55.
3&4-Methylphenol	U	75	ug/L	1	20	100	38.	75.
Hexachloroethane	U	38	ug/L	1	10	50.	18.	38.
Nitrobenzene	U	38	ug/L	1	10	50.	18.	38.
Hexachlorobutadiene	U	38	ug/L	1	10	50.	18.	38.
2,4,6-Trichlorophenol	U	38	ug/L	1	10	50.	18.	38.
2,4,5-Trichlorophenol	U	100	ug/L	1	25	120	50.	100
2,4-Dinitrotoluene	U	38	ug/L	1	10	50.	18.	38.
Hexachlorobenzene	U	38	ug/L	1	10	50.	18.	38.
Pentachlorophenol	U	100	ug/L	1	25	120	50.	100
2-Fluorophenol		45.8	%					
Phenol-D6		30.9	%					
Nitrobenzene-D5		91.7	%					
2-Fluorobiphenyl		98.8	%					
2,4,6-Tribromophenol		93.0	%					
Terphenyl-D14		99.5	%					

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Report of Analytical Results

SDG: SQ5109
Lab ID: SQ5109-1RE
Client ID: DOW-SWC-01
Matrix: AQ
Lab File ID: 1QJ00043.D

Sample Date: 21-SEP-23
Extract Date: 04-OCT-23
Extracted By: AD
Extraction Method: 3510C/1311
Lab Prep Batch: WG343476

Report Date: 01-NOV-23
Analysis Date: 06-OCT-23
Analyst: AD
Analysis Method: SW846 8081B
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
gamma-BHC	U	0.12	ug/L	1	.05	0.25	0.060	0.12
Heptachlor	U	0.12	ug/L	1	.05	0.25	0.060	0.12
Heptachlor Epoxide	U	0.12	ug/L	1	.05	0.25	0.060	0.12
Endrin	U	0.25	ug/L	1	.1	0.50	0.12	0.25
Methoxychlor	U	1.2	ug/L	1	.5	2.5	0.60	1.2
Technical Chlordane	U	1.2	ug/L	1	.5	2.5	0.60	1.2
Toxaphene	U	2.5	ug/L	1	1	5.0	1.2	2.5
Tetrachloro-M-Xylene		74.2	%					
Decachlorobiphenyl		74.0	%					

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ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5109
Lab ID: SQ5109-1
Client ID: DOW-SWC-01
Matrix: AQ
Lab File ID: 8QJ00289.D

Sample Date: 21-SEP-23
Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: 3510C/1311
Lab Prep Batch: WG343382

Report Date: 19-OCT-23
Analysis Date: 11-OCT-23
Analyst: SR
Analysis Method: SW846 8151A
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
2,4-D	U	7.5	ug/L	1	3	15.	3.8	7.5
Silvex	U	7.5	ug/L	1	3	15.	3.8	7.5
2,4-Dichlorophenylacetic Acid		110.	%					

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** DOW-SWC-01

Matrix: WATER **SDG Name:** SQ5109

Percent Solids: 0.00 **Lab Sample ID:** SQ5109-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	MDL	LOD
7440-38-2	ARSENIC, TCLP	25	U		P	1	40	13	25
7440-39-3	BARIUM, TCLP	99.1		B	P	1	25	7.5	15
7440-43-9	CADMIUM, TCLP	15	U		P	1	25	7.5	15
7440-47-3	CHROMIUM, TCLP	20	U		P	1	50	10	20
7439-92-1	LEAD, TCLP	20	U		P	1	25	10	20
7439-97-6	MERCURY, TCLP	0.10	U		CV	1	0.20	0.050	0.10
7782-49-2	SELENIUM, TCLP	35	U		P	1	50	18	35
7440-22-4	SILVER, TCLP	20	U		P	1	50	10	20

Comments:

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Lab Sample ID: SQ5109-1
Client ID: DOW-SWC-01
SDG: SQ5109
Report Date: 17-OCT-23

Matrix	Date Sampled	Date Received
SL	21-SEP-23 09:30	21-SEP-23

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Cyanide, Reactive	U10. mg/Kg	20.	5.0	10.	SW846 7.3.3	WG343425	02-OCT-23 15:40	SW846 7.3.4	28-SEP-23	
Ignitability	>71. Deg. C	71.	71.	N/A	SW846 1010A MOD	WG343570	05-OCT-23 11:46	N/A	N/A	
Sulfide, Reactive	U40 mg/Kg	50	20	40	SW846 7.3.4	WG343276	28-SEP-23 15:19	SW846 7.3.4	28-SEP-23	
pH(Soil)	7.9 pH	0.10	0.10	0.10	SW846 9045D	WG343679	09-OCT-23 12:41	SW846 9045D	09-OCT-23	

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TCLP VOLATILE DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **SDG:** SQ5109 **Matrix:** AQ

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
DOW-SWC-01	SQ5109-1DL		99.0		97.0		100.		99.8	
Laboratory Control S	WG343210-1		99.2		91.2		86.4		98.6	
Method Blank	WG343210-2		97.9		93.5		91.4		99.1	
Laboratory Control S	WG343210-6		100.		90.6		85.4		99.6	
TCLP Blank	WG343210-7		97.7		93.2		92.7		99.8	

Abbr.	Surrogate Compound	QC Limits
BFB	p-Bromofluorobenzene	85-114
DBF	Dibromofluoromethane	80-119
DCA	1,2-Dichloroethane-D4	81-118
TOL	Toluene-D8	89-112

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Form 4
Method Blank Summary

Lab File ID : S6667.D
Instrument ID : GCMS-S
Heated Purge : No
Prep Temperature (C) : N/A

SDG : SQ5109
Lab Sample ID : WG343210-2
Date Analyzed : 28-SEP-23
Time Analyzed : 11:22

This Method Blank applies to the following samples and QC samples:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	
Laboratory Control S	WG343210-1	S6664.D	09/28/23	10:02	
Laboratory Control S	WG343210-6	S6665.D	09/28/23	10:29	
TCLP Blank	WG343210-7	S6668.D	09/28/23	11:49	
DOW-SWC-01	SQ5109-1DL	S6678.D	09/28/23	16:18	

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Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Lab File ID : SB895A.D
Instrument ID : GCMS-S

SDG : SQ5109
Date Analyzed : 21-SEP-23
Time Analyzed : 16:01
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	20.8		
75	30.0 - 60.0% of mass 95	56.7		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.3		
173	Less than 2.0% of mass 174	0.2	0.23	1
174	Greater than 50.0% of mass 95	71.8		
175	5.0 - 9.0% of mass 174	5.4	7.51	1
176	95.0 - 101.0% of mass 174	71.4	99.49	1
177	5.0 - 9.0% of mass 176	4.6	6.43	2

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

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG342876-4	S6548.D	09/21/23	16:50
Initial Calibration	WG342876-3	S6549.D	09/21/23	17:17
Initial Calibration	WG342876-8	S6550.D	09/21/23	17:44
Initial Calibration	WG342876-2	S6551.D	09/21/23	18:10
Initial Calibration	WG342876-1	S6552.D	09/21/23	18:37
Initial Calibration	WG342876-6	S6553.D	09/21/23	19:04
Initial Calibration	WG342876-5	S6554.D	09/21/23	19:31
Initial Calibration	WG342876-7	S6555.D	09/21/23	19:58

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Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Lab File ID : SB896A.D
Instrument ID : GCMS-S

SDG : SQ5109
Date Analyzed : 22-SEP-23
Time Analyzed : 09:00
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	17.8		
75	30.0 - 60.0% of mass 95	51.0		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	8.2		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	75.3		
175	5.0 - 9.0% of mass 174	5.2	6.87	1
176	95.0 - 101.0% of mass 174	72.1	95.76	1
177	5.0 - 9.0% of mass 176	4.4	6.04	2

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

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Independent Source	WG342943-8	S6562A.D	09/22/23	10:13

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Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Lab File ID : SB900A.D
Instrument ID : GCMS-S

SDG : SQ5109
Date Analyzed : 28-SEP-23
Time Analyzed : 09:01
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	18.4		
75	30.0 - 60.0% of mass 95	50.6		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.0		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	73.9		
175	5.0 - 9.0% of mass 174	5.1	6.88	1
176	95.0 - 101.0% of mass 174	71.7	96.98	1
177	5.0 - 9.0% of mass 176	4.9	6.77	2

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

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG343210-4	S6663.D	09/28/23	09:23
Laboratory Control S	WG343210-1	S6664.D	09/28/23	10:02
Laboratory Control S	WG343210-6	S6665.D	09/28/23	10:29
Method Blank	WG343210-2	S6667.D	09/28/23	11:22
TCLP Blank	WG343210-7	S6668.D	09/28/23	11:49
DOW-SWC-01	SQ5109-1DL	S6678.D	09/28/23	16:18
Continuing Calibrati	WG343210-5	S6689.D	09/28/23	21:14

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Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Lab ID : WG342876-4
Lab File ID : S6548.D

SDG: SQ5109
Analytical Date: 09/21/23 16:50
Instrument ID: GCMS-S

		PENTAFLUOROBENZENE		1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5	
		Area #	RT #	Area #	RT #	Area #	RT #
	Std .	473435	6.89	807349	7.61	744248	11.26
	Upper Limit	946870	7.05	1614698	7.78	1488496	11.43
	Lower Limit	236717.5	6.72	403674.5	7.45	372124	11.10
Client Sample ID	Lab Sample ID						
Continuing Calibrati	WG343210-4	526484	6.89	836851	7.61	776682	11.27
Laboratory Control S	WG343210-1	536241	6.89	859891	7.61	788472	11.27
Laboratory Control S	WG343210-6	529230	6.89	842597	7.61	789005	11.27
Method Blank	WG343210-2	489514	6.89	800414	7.61	744330	11.27
TCLP Blank	WG343210-7	477131	6.89	777778	7.61	727888	11.27
DOW-SWC-01	SQ5109-1DL	408240	6.89	684940	7.61	641672	11.27
Continuing Calibrati	WG343210-5	377706	6.88	611772	7.61	577416	11.26

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 10 seconds of internal standard RT
RT Lower Limit = - 10 seconds of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
SDG: SQ5109
Lab ID : WG342876-4
Analytical Date: 09/21/23 16:50
Lab File ID : S6548.D
Instrument ID: GCMS-S

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	399456		13.93	
	Upper Limit	798912		14.10	
	Lower Limit	199728		13.77	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG343210-4	424730		13.94	
Laboratory Control S	WG343210-1	431192		13.94	
Laboratory Control S	WG343210-6	425504		13.94	
Method Blank	WG343210-2	391820		13.94	
TCLP Blank	WG343210-7	377167		13.94	
DOW-SWC-01	SQ5109-1DL	330258		13.94	
Continuing Calibrati	WG343210-5	322708		13.93	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 10 seconds of internal standard RT
RT Lower Limit = - 10 seconds of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL, "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery or percent RPD (relative percent difference) was outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

And/or

J Used for Dual Column analytes when there is a greater than 40% difference for detected concentrations between the two GC/HPLC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

I Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration (ICAL).

D Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration Verification (ICV).

C Indicates that the flagged compound did not meet DoD criteria in the corresponding opening Calibration Verification (CV).

V Indicates that the flagged compound did not meet DoD criteria in the corresponding closing Calibration Verification (CV).

L/LL Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M/MM Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike (MS) and/or Matrix Spike Duplicate MSD) prepared and/or analyzed concurrently with the native sample.

H Indicates the flagged compound was detected on the primary column but was not detected on the confirmation column therefore the compound is not reported as a positive detection. (SW846 8330A/B only)

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5109
Lab ID: SQ5109-1DL
Client ID: DOW-SWC-01
Matrix: AQ
Lab File ID: S6678.D

Sample Date: 21-SEP-23
Extract Date: 28-SEP-23
Extracted By: CR
Extraction Method: 5030/1311
Lab Prep Batch: WG343210

Report Date: 13-OCT-23
Analysis Date: 28-SEP-23
Analyst: CR
Analysis Method: SW846 8260C
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	15	ug/L	20	1	20.	7.4	15.
Carbon Tetrachloride	U	10	ug/L	20	1	20.	5.0	10.
Chlorobenzene	U	10	ug/L	20	1	20.	5.0	10.
Chloroform	U	15	ug/L	20	1	20.	7.4	15.
1,2-Dichloroethane	U	10	ug/L	20	1	20.	5.0	10.
1,1-Dichloroethene	U	15	ug/L	20	1	20.	7.4	15.
2-Butanone	U	60	ug/L	20	5	100	30.	60.
Tetrachloroethene	U	20	ug/L	20	2	40.	10.	20.
Trichloroethene	U	15	ug/L	20	1	20.	7.4	15.
Vinyl Chloride	U	20	ug/L	20	2	40.	10.	20.
1,2-Dichloroethane-D4		100.	%					
Toluene-D8		99.8	%					
p-Bromofluorobenzene		99.0	%					
Dibromofluoromethane		97.0	%					

600 Technology Way
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Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6678.D
Report Date: 13-Oct-2023 15:16

Katahdin Analytical Services

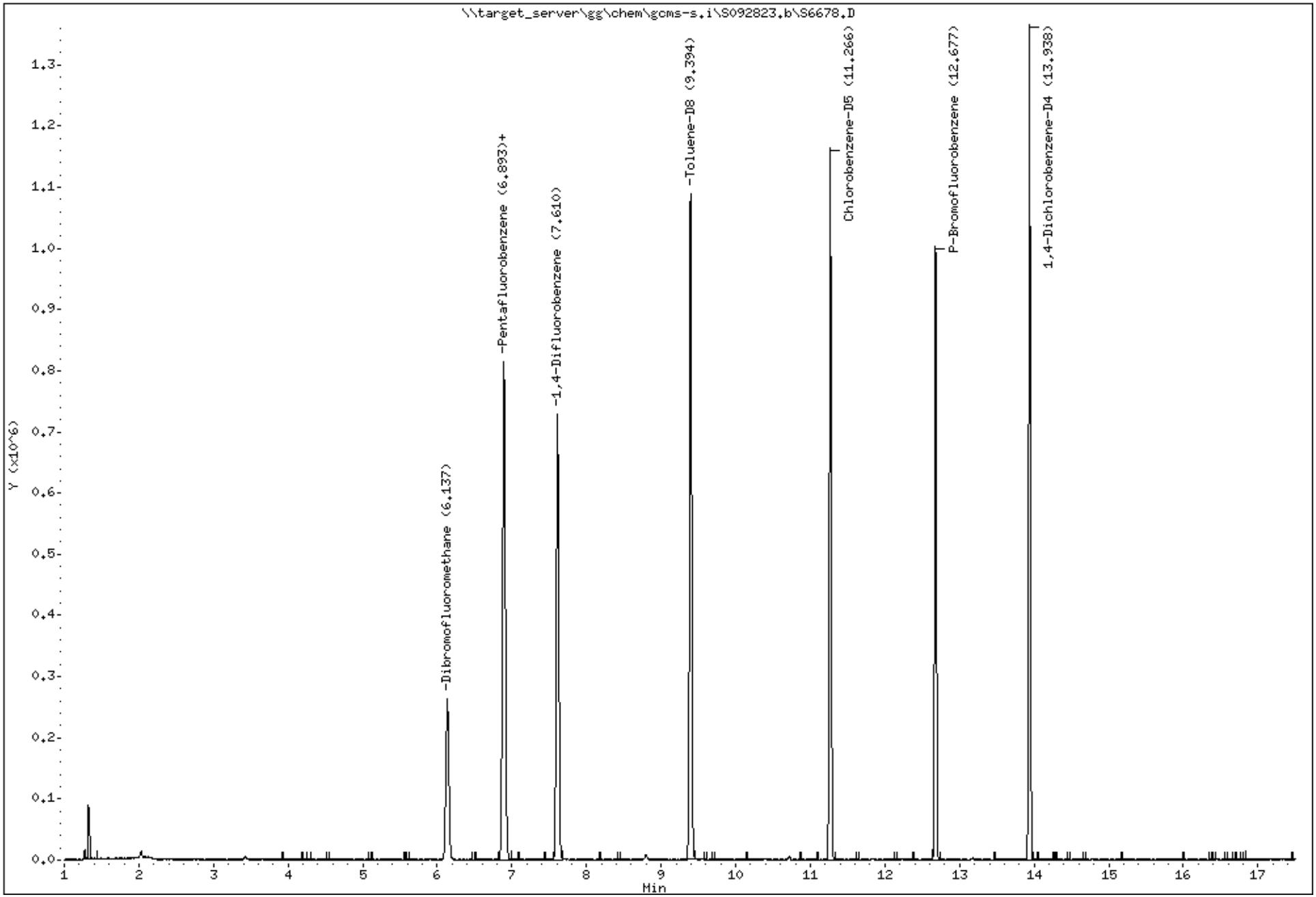
Data file : \\target_server\gg\chem\gcms-s.i\S092823.b\S6678.D
Lab Smp Id: SQ5109-1DL
Inj Date : 28-SEP-2023 16:18
Operator : CR   Inst ID: gcms-s.i
Smp Info : SQ5109-1DL
Misc Info : WG343210,WG342876-4
Comment   : 5030/1311
Method   : \\target_server\gg\chem\gcms-s.i\S092823.b\S826(09)23.m
Meth Date : 11-Oct-2023 15:10 croy   Quant Type: ISTD
Cal Date : 21-SEP-2023 16:50   Cal File: S6548.D
Als bottle: 16
Dil Factor: 20.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: ORGANICS2

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 35 Dibromofluoromethane	113	6.137	6.134	(0.890)	220109	48.4990	48.5	
* 41 Pentafluorobenzene	168	6.892	6.887	(1.000)	408240	50.0000		
$ 42 1,2-Dichloroethane-D4	65	6.896	6.896	(1.000)	337435	50.0307	50.0	
* 48 1,4-Difluorobenzene	114	7.613	7.613	(1.000)	684940	50.0000		
$ 56 Toluene-D8	98	9.394	9.388	(1.234)	800605	49.9050	49.9	
* 67 Chlorobenzene-D5	117	11.268	11.263	(1.000)	641672	50.0000		
$ 76 P-Bromofluorobenzene	95	12.677	12.671	(1.665)	328574	49.5094	49.5	
* 91 1,4-Dichlorobenzene-D4	152	13.937	13.934	(1.000)	330258	50.0000		

Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6678.D
Date : 28-SEP-2023 16:18
Client ID:
Instrument: gcms-s.i
Sample Info: SQ5109-1DL



Katahdin Analytical Services SQ5109 Page 35 of 681

Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5109

Instrument ID: GCMS-S **Column ID:**

Lab File IDs : S6552.D S6551.D S6549.D S6548.D S6554.D S6553.D S6555.D S6550.D

Calibration Date(s): 21-SEP-23 16:50, 21-SEP-23 19:58

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Curve				%RSD or R^2		
	1.0000	5.0000	20.0000	50.0000	100.0000	150.0000	75.0000	10.0000	Type	b	m1	m2	Result	Limit	
Vinyl chloride	0.56713	0.67025	0.56480	0.57449	0.52239	0.57297	0.50825	0.54620	AVG		0.56581		8.61180	15	O
1,1-Dichloroethene	0.46277	0.49933	0.42279	0.43560	0.42806	0.44608	0.42996	0.43558	AVG		0.44502		5.66706	15	O
Chloroform	1.09538	1.20768	1.07857	1.07422	1.02247	1.06622	1.03123	1.08253	AVG		1.08229		5.22862	15	O
Carbon Tetrachloride	0.42035	0.49581	0.47395	0.49601	0.46524	0.49248	0.44359	0.43434	AVG		0.46522		6.36509	15	O
2-Butanone	0.17911	0.18339	0.21151	0.19827	0.19234	0.18931	0.19184	0.17233	AVG		0.18976		6.34424	15	O
Benzene	1.12860	1.43275	1.22908	1.21535	1.17520	1.18300	1.17617	1.21508	AVG		1.21940		7.53151	15	O
1,2-Dichloroethane	0.60492	0.59377	0.56174	0.57046	0.52148	0.53791	0.51245	0.55035	AVG		0.55664		5.88262	15	O
Trichloroethene	0.34081	0.41116	0.33878	0.34787	0.32504	0.35597	0.32080	0.34015	AVG		0.34757		8.07700	15	O
Tetrachloroethene	0.20897	0.31937	0.27102	0.27556	0.26909	0.27421	0.26510	0.26845	AVG		0.26897		11.09120	15	O
Chlorobenzene	0.92183	1.06172	0.93240	0.91851	0.88838	0.90830	0.88684	0.92004	AVG		0.92975		5.99107	15	O
Dibromofluoromethane	0.55513	0.55509	0.55315	0.55219	0.56053	0.56815	0.55833	0.54424	AVG		0.55585		1.24668	15	
1,2-Dichloroethane-D4	0.85893	0.82799	0.82802	0.83535	0.80226	0.84511	0.78900	0.82176	AVG		0.82605		2.70528	15	
Toluene-D8	1.17559	1.17111	1.17527	1.16665	1.16928	1.17912	1.16721	1.16454	AVG		1.17109		0.43668	15	
P-Bromofluorobenzene	0.47429	0.48916	0.48941	0.48688	0.48368	0.49533	0.47449	0.48249	AVG		0.48447		1.51691	15	

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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Data File: \\target_server\gg\chem\gcms-s.i\S092223.b\S6562A.D
Report Date: 05-Oct-2023 10:29

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa02236
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: WG342943-8
Level: LOW Operator: JSS
Data Type: MS DATA SampleType: LCS
SpikeList File: IND_CHECK.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\target_server\gg\chem\gcms-s.i\S092223.b\S826(09)23.m
Misc Info: WG342943,WG342876-4

SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.0	71.5	142.95*	80-120
2	Chloromethane	50.0	54.0	108.08	80-120
3	Vinyl chloride	50.0	52.3	104.69	80-120
4	Bromomethane	50.0	52.2	104.46	80-120
5	Chloroethane	50.0	47.4	94.86	80-120
6	Trichlorofluoromet	50.0	54.0	107.99	80-120
7	Diethyl Ether	50.0	50.7	101.40	80-120
20	Tertiary-butyl alc	250	272	108.65	80-120
8	1,1-Dichloroethene	50.0	53.5	106.97	80-120
9	Carbon Disulfide	50.0	75.6	151.24*	80-120
10	Freon-113	50.0	52.6	105.13	80-120
11	Iodomethane	50.0	72.6	145.12*	80-120
12	Acrolein	250	280	112.06	80-120
14	Methylene Chloride	50.0	52.7	105.44	80-120
15	Acetone	50.0	64.5	128.99*	80-120
45	Isobutyl Alcohol	1000	1000	100.53	80-120
16	trans-1,2-Dichloro	50.0	52.5	105.02	80-120
13	Allyl Chloride	50.0	54.3	108.66	80-120
18	Methyl tert-butyl	50.0	58.2	116.48	80-120
19	Acetonitrile	500	495	99.01	80-120
21	Di-isopropyl ether	50.0	50.7	101.38	80-120
22	Chloroprene	50.0	50.1	100.22	80-120
39	Propionitrile	500	518	103.51	80-120
40	Methacrylonitrile	500	513	102.64	80-120
23	1,1-Dichloroethane	50.0	50.5	101.04	80-120
24	Acrylonitrile	250	264	105.57	80-120
25	Ethyl tertiary-but	50.0	52.9	105.80	80-120
26	Vinyl Acetate	50.0	66.6	133.28*	80-120
27	cis-1,2-Dichloroet	50.0	52.9	105.73	80-120
M 104	1,2-Dichloroethyle	100	105	105.37	80-120
52	Methyl Methacrylat	50.0	48.4	96.87	80-120
28	2,2-Dichloropropan	50.0	62.5	125.03*	80-120
30	Bromochloromethane	50.0	57.7	115.42	80-120
31	Chloroform	50.0	48.8	97.56	80-120
32	Carbon Tetrachlori	50.0	51.6	103.14	80-120
33	Tetrahydrofuran	50.0	65.8	131.61*	80-120
34	1,1,1-Trichloroeth	50.0	48.4	96.72	80-120
36	1,1-Dichloropropen	50.0	50.0	100.11	80-120
37	2-Butanone	50.0	58.6	117.17	80-120
38	Benzene	50.0	50.1	100.15	80-120

Data File: \\target_server\gg\chem\gcms-s.i\S092223.b\S6562A.D
Report Date: 05-Oct-2023 10:29

	SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	29 Cyclohexane	50.0	59.4	118.70	80-120
	62 Ethyl Methacrylate	50.0	48.8	97.66	80-120
	43 Tertiary-amyl meth	50.0	52.3	104.67	80-120
	44 1,2-Dichloroethane	50.0	46.4	92.76	80-120
	47 Trichloroethene	50.0	46.8	93.65	80-120
	49 Dibromomethane	50.0	50.8	101.55	80-120
	50 1,2-Dichloropropan	50.0	49.3	98.66	80-120
	51 Bromodichlorometha	50.0	49.8	99.61	80-120
	55 cis-1,3-dichloropr	50.0	57.5	114.94	80-120
	53 1,4-Dioxane	1000	1120	111.91	80-120
	54 2-Chloroethylvinyl	50.0	263	525.55*	80-120
	57 Toluene	50.0	49.4	98.84	80-120
	59 4-methyl-2-pentano	50.0	51.6	103.25	80-120
	58 Tetrachloroethene	50.0	52.0	103.93	80-120
	60 trans-1,3-Dichloro	50.0	59.2	118.48	80-120
	61 1,1,2-Trichloroeth	50.0	51.0	101.95	80-120
	63 Dibromochlorometha	50.0	51.8	103.56	80-120
	64 1,3-Dichloropropan	50.0	49.4	98.90	80-120
	65 1,2-Dibromoethane	50.0	52.3	104.62	80-120
	66 2-Hexanone	50.0	51.5	103.00	80-120
	68 Chlorobenzene	50.0	50.5	100.98	80-120
	102 1-Chlorohexane	50.0	0.000	0.00*	80-120
	69 Ethylbenzene	50.0	50.7	101.45	80-120
	71 1,1,1,2-Tetrachlor	50.0	50.0	99.94	80-120
M	105 Xylenes (total)	150	157	104.43	80-120
	70 m+p-Xylenes	100	102	102.30	80-120
	72 o-Xylene	50.0	54.3	108.68	80-120
	73 Styrene	50.0	54.4	108.73	80-120
	74 Bromoform	50.0	52.7	105.42	80-120
	75 Isopropylbenzene	50.0	50.4	100.78	80-120
	78 cis-1,4-Dichloro-2	50.0	55.3	110.65	80-120
	84 trans-1,4-Dichloro	50.0	56.8	113.64	80-120
	77 Bromobenzene	50.0	51.2	102.51	80-120
	79 N-Propylbenzene	50.0	50.4	100.90	80-120
	80 1,1,2,2-Tetrachlor	50.0	51.1	102.16	80-120
	83 1,3,5-Trimethylben	50.0	50.9	101.77	80-120
	81 2-Chlorotoluene	50.0	50.9	101.79	80-120
	82 1,2,3-Trichloropro	50.0	47.8	95.55	80-120
	85 4-Chlorotoluene	50.0	50.6	101.31	80-120
	86 tert-Butylbenzene	50.0	52.1	104.17	80-120
	103 Pentachloroethane	50.0	0.000	*	80-120
	87 1,2,4-Trimethylben	50.0	52.7	105.49	80-120
	89 P-Isopropyltoluene	50.0	53.4	106.82	80-120
	90 1,3-Dichlorobenzen	50.0	51.1	102.23	80-120
	92 1,4-Dichlorobenzen	50.0	48.6	97.24	80-120
	94 N-Butylbenzene	50.0	52.1	104.28	80-120
	88 sec-Butylbenzene	50.0	53.4	106.80	80-120
	95 1,2-Dichlorobenzen	50.0	51.5	103.09	80-120
	96 1,2-Dibromo-3-Chlo	50.0	53.1	106.14	80-120
	97 1,3,5-Trichloroben	50.0	53.4	106.76	80-120
	98 Hexachlorobutadien	50.0	50.9	101.75	80-120
	99 1,2,4-Trichloroben	50.0	53.8	107.70	80-120
	93 1,2,3-Trimethylben	50.0	50.5	101.04	80-120
	100 Naphthalene	50.0	51.6	103.29	80-120

Data File: \\target_server\gg\chem\gcms-s.i\S092223.b\S6562A.D
Report Date: 05-Oct-2023 10:29

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
101 1,2,3-Trichloroben	50.0	53.0	106.10	80-120
17 Methyl Acetate	50.0	47.9	95.76	80-120
46 Methylcyclohexane	50.0	53.3	106.68	80-120
M 106 Total Alkylbenzene	350	365	104.32	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 35 Dibromofluorometha	50.0	50.3	100.59	68-128
$ 42 1,2-Dichloroethane	50.0	46.9	93.81	67-135
$ 56 Toluene-D8	50.0	49.9	99.88	65-128
$ 76 P-Bromofluorobenze	50.0	48.5	96.92	56-133

Data File: \\target_server\gg\chem\gcms-s.i\S092223.b\S6562A.D
Report Date: 05-Oct-2023 10:29

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S092223.b\S6562A.D
Lab Smp Id: WG342943-8
Inj Date : 22-SEP-2023 10:13
Operator : JSS   Inst ID: gcms-s.i
Smp Info : WG342943-8
Misc Info : WG342943,WG342876-4
Comment   : SW846 5030C
Method   : \\target_server\gg\chem\gcms-s.i\S092223.b\S826(09)23.m
Meth Date : 23-Sep-2023 08:59 jsampson   Quant Type: ISTD
Cal Date : 21-SEP-2023 16:50   Cal File: S6548.D
Als bottle: 2   QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOA-WS

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.459	1.459	(0.212)	389956	71.4756	71.5(R)	
2	Chloromethane	50	1.635	1.639	(0.237)	346354	54.0411	54.0	
3	Vinyl chloride	62	1.706	1.710	(0.248)	334114	52.3436	52.3	
4	Bromomethane	94	1.999	1.999	(0.290)	169431	52.2316	52.2	
5	Chloroethane	64	2.111	2.118	(0.306)	181056	47.4279	47.4	
6	Trichlorofluoromethane	101	2.250	2.253	(0.327)	585316	53.9937	54.0	
7	Diethyl Ether	59	2.555	2.559	(0.371)	235486	50.7017	50.7	
8	1,1-Dichloroethene	96	2.761	2.761	(0.401)	268516	53.4847	53.5	
9	Carbon Disulfide	76	2.786	2.790	(0.405)	816016	75.6205	75.6(R)	
10	Freon-113	151	2.806	2.810	(0.407)	208782	52.5670	52.6	
11	Iodomethane	142	2.905	2.916	(0.422)	295829	72.5577	72.6(R)	
12	Acrolein	56	3.121	3.125	(0.453)	143894	280.138	280	
13	Allyl Chloride	41	3.288	3.292	(0.477)	371611	54.3284	54.3	
14	Methylene Chloride	84	3.417	3.417	(0.496)	305163	52.7201	52.7	
15	Acetone	43	3.471	3.472	(0.504)	99284	64.4969	64.5(R)	
16	trans-1,2-Dichloroethene	96	3.616	3.620	(0.525)	299929	52.5093	52.5	
17	Methyl Acetate	43	3.642	3.642	(0.529)	194915	47.8813	47.9	
18	Methyl tert-butyl ether	73	3.767	3.774	(0.547)	901566	58.2392	58.2	
19	Acetonitrile	41	4.076	4.080	(0.592)	308933	495.027	495	
20	Tertiary-butyl alcohol	59	3.902	3.912	(0.566)	112315	271.632	272	
21	Di-isopropyl ether	45	4.327	4.333	(0.628)	786748	50.6924	50.7	
22	Chloroprene	53	4.449	4.453	(0.646)	472132	50.1117	50.1	
23	1,1-Dichloroethane	63	4.481	4.488	(0.650)	570678	50.5193	50.5	

Data File: \\target_server\gg\chem\gcms-s.i\S092223.b\S6562A.D
Report Date: 05-Oct-2023 10:29

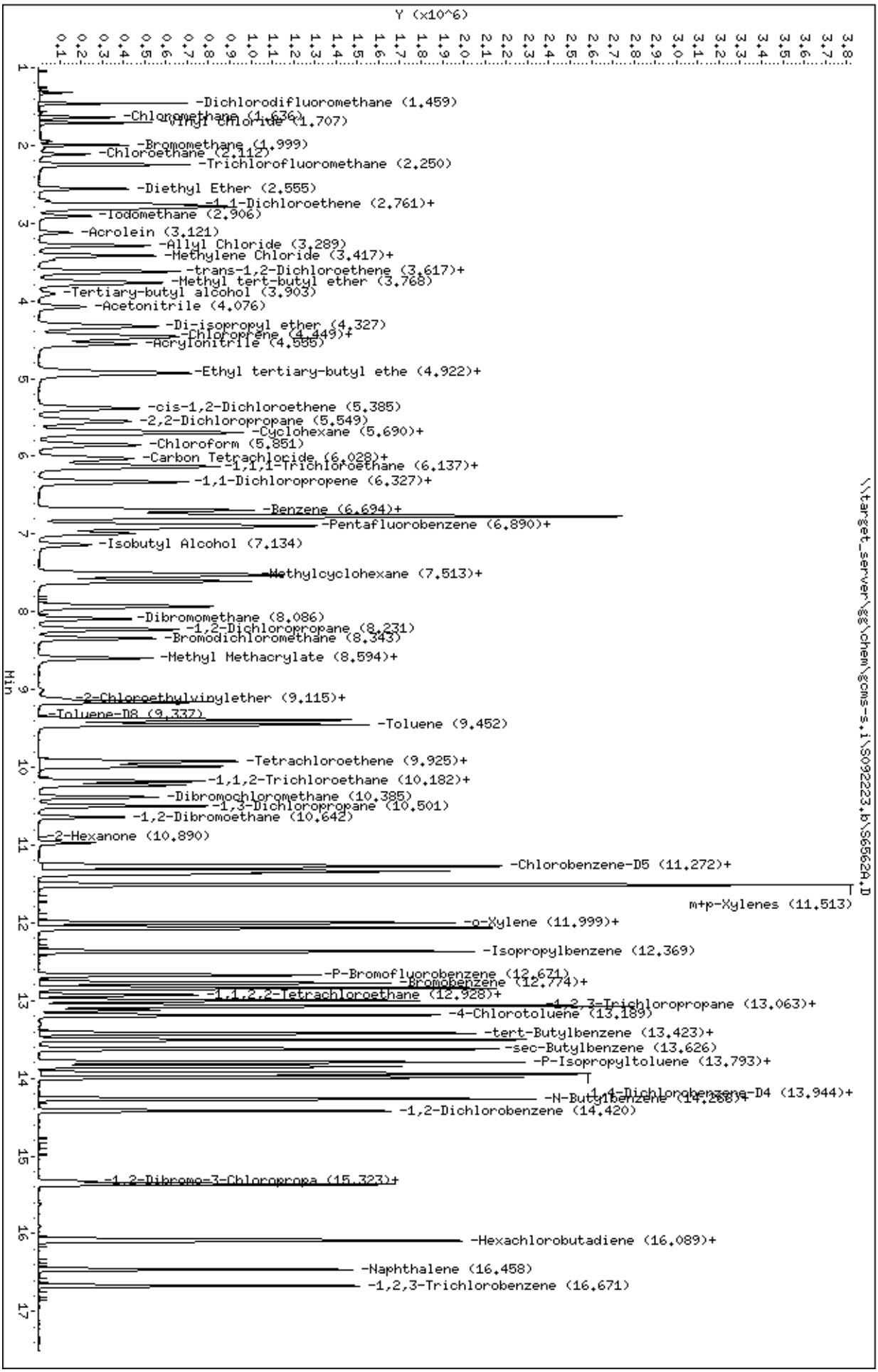
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	24 Acrylonitrile	52	4.555	4.559	(0.661)	430417	263.921	264	
	25 Ethyl tertiary-butyl ether	59	4.921	4.925	(0.714)	814403	52.9018	52.9	
	26 Vinyl Acetate	43	4.934	4.935	(0.649)	686921	66.6391	66.6(R)	
	27 cis-1,2-Dichloroethene	96	5.384	5.385	(0.782)	323782	52.8638	52.9	
	28 2,2-Dichloropropane	77	5.548	5.552	(0.805)	521359	62.5133	62.5(R)	
	29 Cyclohexane	56	5.690	5.690	(0.826)	499622	59.3515	59.4	
	30 Bromochloromethane	128	5.696	5.703	(0.827)	152992	57.7099	57.7	
	31 Chloroform	83	5.851	5.854	(0.849)	595608	48.7818	48.8	
	32 Carbon Tetrachloride	117	6.028	6.031	(0.792)	473035	51.5705	51.6	
	33 Tetrahydrofuran	42	6.069	6.063	(0.881)	88177	65.8067	65.8(R)	
	34 1,1,1-Trichloroethane	97	6.137	6.141	(0.891)	557561	48.3595	48.4	
$	35 Dibromofluoromethane	113	6.127	6.134	(0.889)	315390	50.2953	50.3	
	36 1,1-Dichloropropene	75	6.327	6.337	(0.832)	454209	50.0575	50.0	
	37 2-Butanone	43	6.330	6.324	(0.919)	125415	58.5839	58.6	
	38 Benzene	78	6.693	6.697	(0.880)	1203984	50.0773	50.1	
	39 Propionitrile	54	6.732	6.735	(0.977)	384107	517.556	518	
	40 Methacrylonitrile	41	6.770	6.774	(0.983)	1714122	513.201	513	
*	41 Pentafluorobenzene	168	6.889	6.887	(1.000)	564067	50.0000		
$	42 1,2-Dichloroethane-D4	65	6.889	6.896	(1.000)	437093	46.9035	46.9	
	43 Tertiary-amyl methyl ether	73	6.915	6.922	(1.004)	724693	52.3354	52.3	
	44 1,2-Dichloroethane	62	6.989	6.996	(0.919)	509016	46.3797	46.4	
	45 Isobutyl Alcohol	43	7.134	7.141	(1.035)	191705	1005.28	1000	
	46 Methylcyclohexane	83	7.513	7.510	(1.091)	497855	53.3413	53.3	
	47 Trichloroethene	95	7.535	7.542	(0.991)	320894	46.8255	46.8	
*	48 1,4-Difluorobenzene	114	7.606	7.613	(1.000)	985832	50.0000		
	49 Dibromomethane	93	8.085	8.092	(1.063)	204361	50.7733	50.8	
	50 1,2-Dichloropropane	63	8.230	8.227	(1.082)	298686	49.3305	49.3	
	51 Bromodichloromethane	83	8.343	8.343	(1.097)	451263	49.8031	49.8	
	52 Methyl Methacrylate	41	8.593	8.597	(1.130)	249431	48.4370	48.4	
	53 1,4-Dioxane	88	8.603	8.603	(1.131)	70786	1119.13	1120	
	54 2-Chloroethylvinylether	63	9.114	9.115	(1.198)	65668	262.775	263(AR)	
	55 cis-1,3-dichloropropene	75	9.156	9.160	(1.204)	544444	57.4711	57.5	
$	56 Toluene-D8	98	9.391	9.388	(1.235)	1153169	49.9422	49.9	
	57 Toluene	91	9.452	9.452	(1.243)	1300352	49.4221	49.4	
	58 Tetrachloroethene	164	9.921	9.922	(0.881)	254150	51.9637	52.0	
	59 4-methyl-2-pentanone	43	9.950	9.954	(1.308)	256165	51.6232	51.6	
	60 trans-1,3-Dichloropropene	75	9.989	9.992	(1.313)	534907	59.2403	59.2	
	61 1,1,2-Trichloroethane	97	10.182	10.179	(1.339)	282935	50.9760	51.0	
	62 Ethyl Methacrylate	69	10.227	10.234	(1.344)	399765	48.8308	48.8	
	63 Dibromochloromethane	129	10.384	10.385	(0.922)	340924	51.7801	51.8	
	64 1,3-Dichloropropane	76	10.500	10.497	(0.932)	532305	49.4522	49.4	
	65 1,2-Dibromoethane	107	10.641	10.642	(1.399)	306942	52.3082	52.3	
	66 2-Hexanone	43	10.973	10.970	(0.974)	179526	51.5014	51.5	
*	67 Chlorobenzene-D5	117	11.262	11.263	(1.000)	909188	50.0000		
	68 Chlorobenzene	112	11.281	11.282	(1.002)	853572	50.4881	50.5	
	69 Ethylbenzene	106	11.336	11.336	(1.007)	461755	50.7251	50.7	
	70 m+p-Xylenes	106	11.513	11.513	(1.022)	1145679	102.303	102	
	71 1,1,1,2-Tetrachloroethane	131	11.368	11.372	(1.009)	318606	49.9692	50.0	
	72 o-Xylene	106	12.002	12.002	(1.066)	550267	54.3387	54.3	
	73 Styrene	104	12.063	12.066	(1.071)	898227	54.3646	54.4	
	74 Bromoform	173	12.076	12.073	(1.072)	237332	52.7096	52.7	
	75 Isopropylbenzene	105	12.368	12.369	(0.888)	1433262	50.3895	50.4	
$	76 P-Bromofluorobenzene	95	12.670	12.671	(1.666)	462895	48.4604	48.5	
	77 Bromobenzene	156	12.776	12.777	(0.917)	359135	51.2546	51.2	

Data File: \\target_server\gg\chem\gcms-s.i\S092223.b\S6562A.D
Report Date: 05-Oct-2023 10:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 cis-1,4-Dichloro-2-Butene	53	12.764	12.767	(0.916)	131976	55.3237	55.3	
	79 N-Propylbenzene	91	12.841	12.841	(0.922)	1762810	50.4503	50.4	
	80 1,1,2,2-Tetrachloroethane	83	12.928	12.931	(0.928)	374470	51.0816	51.1	
	81 2-Chlorotoluene	91	12.998	12.999	(0.933)	1077674	50.8971	50.9	
	82 1,2,3-Trichloropropane	75	13.063	13.063	(0.937)	331877	47.7745	47.8	
	83 1,3,5-Trimethylbenzene	105	13.072	13.070	(0.938)	1251794	50.8861	50.9	
	84 trans-1,4-Dichloro-2-Butene	53	13.124	13.121	(0.942)	126802	56.8219	56.8	
	85 4-Chlorotoluene	91	13.188	13.189	(0.946)	1130862	50.6572	50.6	
	86 tert-Butylbenzene	119	13.420	13.423	(0.963)	1086430	52.0853	52.1	
	87 1,2,4-Trimethylbenzene	105	13.503	13.504	(0.969)	1294560	52.7461	52.7	
	88 sec-Butylbenzene	105	13.625	13.626	(0.978)	1575195	53.3998	53.4	
	89 P-Isopropyltoluene	119	13.792	13.793	(0.990)	1365992	53.4089	53.4	
	90 1,3-Dichlorobenzene	146	13.847	13.848	(0.994)	684671	51.1141	51.1	
*	91 1,4-Dichlorobenzene-D4	152	13.934	13.934	(1.000)	485716	50.0000		
	92 1,4-Dichlorobenzene	146	13.950	13.951	(1.001)	676804	48.6207	48.6	
	93 1,2,3-Trimethylbenzene	105	13.989	13.989	(1.004)	1306865	50.5204	50.5	
	94 N-Butylbenzene	91	14.265	14.266	(1.024)	1282143	52.1390	52.1	
	95 1,2-Dichlorobenzene	146	14.419	14.420	(1.035)	654198	51.5426	51.5	
	96 1,2-Dibromo-3-Chloropropane	157	15.323	15.327	(1.100)	69881	53.0698	53.1	
	97 1,3,5-Trichlorobenzene	180	15.365	15.362	(1.103)	523476	53.3815	53.4	
	98 Hexachlorobutadiene	225	16.075	16.073	(1.154)	243215	50.8756	50.9	
	99 1,2,4-Trichlorobenzene	180	16.091	16.091	(1.155)	487286	53.8519	53.8	
	100 Naphthalene	128	16.461	16.462	(1.181)	1114970	51.6443	51.6	
	101 1,2,3-Trichlorobenzene	180	16.670	16.671	(1.196)	452918	53.0476	53.0	
	102 1-Chlorohexane	91	14.265	14.266	(1.267)	1282143		(aR)	
M	104 1,2-Dichloroethylene (total)	96				623711	105.373	105	
M	105 Xylenes (total)	106				1695946	156.641	157	
M	106 Total Alkylbenzenes	100				9618924	365.115	365	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.


Data File: \\target_server\gg\chem\gcms-s.i\S092223.b\S6562A.D
Date : 22-SEP-2023 10:13
Client ID:
Sample Info: WG342943-8
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-s.i
Operator: JSS
Column diameter: 0.18
Y (x10^6)
Min
\\target_server\gg\chem\gcms-s.i\S092223.b\S6562A.D
-Dichlorodifluoromethane (1.459)
-Chloromethane (1.636)
-Vinyl Chloride (1.707)
-Bromomethane (1.999)
-Chloroethane (2.112)
-Trichlorofluoromethane (2.250)
-Diethyl Ether (2.555)
-1,1-Dichloroethene (2.761)+
-Iodomethane (2.906)
-Acrolein (3.121)
-Allyl Chloride (3.289)
-Methylene Chloride (3.417)+
-trans-1,2-Dichloroethene (3.617)+
-Methyl tert-butyl ether (3.768)
-Tertiary-butyl alcohol (3.903)
-Acetonitrile (4.076)
-Di-isopropyl ether (4.327)
-Chloroprene (4.449)+
-Acrylonitrile (4.555)
-Ethyl tertiary-butyl ethe (4.922)+
-cis-1,2-Dichloroethene (5.385)
-2,2-Dichloropropane (5.549)
-Cyclohexane (5.690)+
-Chloroform (5.851)
-Carbon Tetrachloride (6.028)+
-1,1,1-Trichloroethane (6.137)+
-1,1-Dichloropropene (6.327)+
-Benzene (6.694)+
-Pentafluorobenzene (6.890)+
-Isobutyl Alcohol (7.134)
-Methylcyclohexane (7.513)+
-Dibromomethane (8.086)
-1,2-Dichloropropane (8.231)
-Bromodichloromethane (8.343)
-Methyl Methacrylate (8.594)+
-2-Chloroethylvinylether (9.115)+
-Toluene-D8 (9.337)
-Toluene (9.452)
-Tetrachloroethene (9.925)+
-1,1,2-Trichloroethane (10.182)+
-Dibromochloromethane (10.385)
-1,3-Dichloropropane (10.501)
-1,2-Dibromoethane (10.642)
-2-Hexanone (10.890)
-Chlorobenzene-D5 (11.272)+
m+p-Xylenes (11.513)
-o-Xylene (11.999)+
-Isopropylbenzene (12.369)
-P-Bromofluorobenzene (12.671)
-Bromobenzene (12.774)+
-1,1,2,2-Tetrachloroethane (12.928)+
-1,2,3-Trichloropropane (13.063)+
-4-Chlorotoluene (13.189)
-tert-Butylbenzene (13.423)+
-sec-Butylbenzene (13.626)
-P-Isopropyltoluene (13.793)+
-1,4-Dichlorobenzene-D4 (13.944)+
-N-Butylbenzene (14.268)+
-1,2-Dichlorobenzene (14.420)
-1,2-Dibromo-3-Chloropropa (15.323)+
-Hexachlorobutadiene (16.089)+
-Naphthalene (16.458)
-1,2,3-Trichlorobenzene (16.671)

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6548.D
Report Date: 05-Oct-2023 10:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S092123.b\S6548.D
Lab Smp Id: WG342876-4
Inj Date : 21-SEP-2023 16:50
Operator : JSS   Inst ID: gcms-s.i
Smp Info : WG342876-4
Misc Info :
Comment   : SW846 5030C
Method   : \\target_server\gg\chem\gcms-s.i\S092123.b\S826(09)23.m
Meth Date : 22-Sep-2023 08:46 croy   Quant Type: ISTD
Cal Date : 21-SEP-2023 16:50   Cal File: S6548.D
Als bottle: 2   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

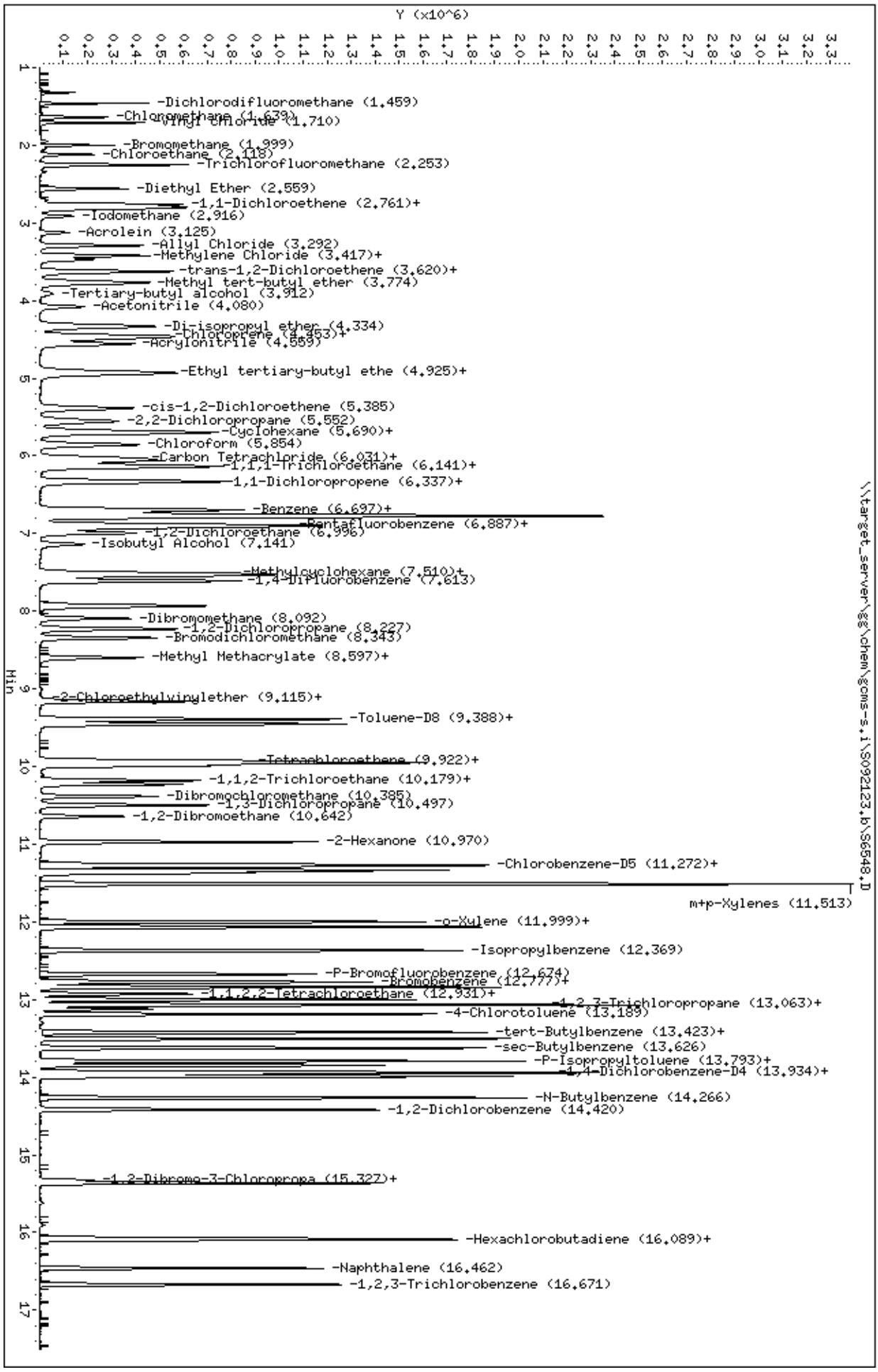
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.459	1.459	(0.212)	246091	50.0000	53.7	
2	Chloromethane	50	1.639	1.639	(0.238)	265009	50.0000	49.3	
3	Vinyl chloride	62	1.709	1.710	(0.248)	271986	50.0000	50.8	
4	Bromomethane	94	1.999	1.999	(0.290)	120779	50.0000	38.4	
5	Chloroethane	64	2.118	2.118	(0.308)	162977	50.0000	50.9	
6	Trichlorofluoromethane	101	2.253	2.253	(0.327)	481666	50.0000	52.9	
7	Diethyl Ether	59	2.558	2.559	(0.372)	197641	50.0000	50.7	
8	1,1-Dichloroethene	96	2.761	2.761	(0.401)	206226	50.0000	48.9	
9	Carbon Disulfide	76	2.790	2.790	(0.405)	453607	50.0000	50.1	
10	Freon-113	151	2.809	2.810	(0.408)	168117	50.0000	50.4	
11	Iodomethane	142	2.915	2.916	(0.423)	160593	50.0000	57.6	
12	Acrolein	56	3.124	3.125	(0.454)	113758	250.000	264	
13	Allyl Chloride	41	3.291	3.292	(0.478)	284836	50.0000	49.6	
14	Methylene Chloride	84	3.417	3.417	(0.496)	242868	50.0000	43.0	
15	Acetone	43	3.471	3.472	(0.504)	331358	250.000	256	
16	trans-1,2-Dichloroethene	96	3.619	3.620	(0.526)	234136	50.0000	48.8	
17	Methyl Acetate	43	3.642	3.642	(0.529)	169788	50.0000	49.7	
18	Methyl tert-butyl ether	73	3.774	3.774	(0.548)	690198	50.0000	53.1	
19	Acetonitrile	41	4.079	4.080	(0.592)	254248	500.000	485	
20	Tertiary-butyl alcohol	59	3.912	3.912	(0.568)	79129	250.000	228	
21	Di-isopropyl ether	45	4.333	4.333	(0.629)	670846	50.0000	51.5	
22	Chloroprene	53	4.452	4.453	(0.647)	428831	50.0000	54.2	
23	1,1-Dichloroethane	63	4.487	4.488	(0.652)	476281	50.0000	50.2	
24	Acrylonitrile	52	4.558	4.559	(0.662)	359823	250.000	263	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25 Ethyl tertiary-butyl ether	59	4.925	4.925	(0.715)	687171	50.0000	53.2	
	26 Vinyl Acetate	43	4.934	4.935	(0.648)	480253	50.0000	56.9	
	27 cis-1,2-Dichloroethene	96	5.384	5.385	(0.782)	254282	50.0000	49.5	
	28 2,2-Dichloropropane	77	5.552	5.552	(0.806)	364020	50.0000	52.0	
	29 Cyclohexane	56	5.690	5.690	(0.826)	371180	50.0000	52.5	
	30 Bromochloromethane	128	5.703	5.703	(0.828)	112684	50.0000	50.6	
	31 Chloroform	83	5.854	5.854	(0.850)	508574	50.0000	49.6	
	32 Carbon Tetrachloride	117	6.031	6.031	(0.792)	400451	50.0000	53.3	
	33 Tetrahydrofuran	42	6.063	6.063	(0.880)	298662	250.000	266	
	34 1,1,1-Trichloroethane	97	6.140	6.141	(0.892)	501737	50.0000	51.8	
$	35 Dibromofluoromethane	113	6.134	6.134	(0.891)	261425	50.0000	49.7	
	36 1,1-Dichloropropene	75	6.336	6.337	(0.832)	380429	50.0000	51.2	
	37 2-Butanone	43	6.323	6.324	(0.918)	469343	250.000	261	
	38 Benzene	78	6.696	6.697	(0.880)	981209	50.0000	49.8	
	39 Propionitrile	54	6.735	6.735	(0.978)	314858	500.000	505	
	40 Methacrylonitrile	41	6.773	6.774	(0.984)	1492373	500.000	532	
*	41 Pentafluorobenzene	168	6.886	6.887	(1.000)	473435	50.0000		
$	42 1,2-Dichloroethane-D4	65	6.896	6.896	(1.001)	395485	50.0000	50.6	
	43 Tertiary-amyl methyl ether	73	6.921	6.922	(1.005)	608863	50.0000	52.4	
	44 1,2-Dichloroethane	62	6.995	6.996	(0.919)	460561	50.0000	51.2	
	45 Isobutyl Alcohol	43	7.140	7.141	(1.037)	142320	1000.00	906	
	46 Methylcyclohexane	83	7.510	7.510	(1.091)	420322	50.0000	53.6	
	47 Trichloroethene	95	7.542	7.542	(0.991)	280850	50.0000	50.0	
*	48 1,4-Difluorobenzene	114	7.613	7.613	(1.000)	807349	50.0000		
	49 Dibromomethane	93	8.092	8.092	(1.063)	169834	50.0000	51.5	
	50 1,2-Dichloropropane	63	8.227	8.227	(1.081)	249082	50.0000	50.2	
	51 Bromodichloromethane	83	8.343	8.343	(1.096)	390985	50.0000	52.7	
	52 Methyl Methacrylate	41	8.597	8.597	(1.129)	210913	50.0000	57.0	
	53 1,4-Dioxane	88	8.603	8.603	(1.130)	43913	1000.00	848	
	54 2-Chloroethylvinylether	63	9.114	9.115	(1.197)	6608	50.0000	32.3	
	55 cis-1,3-dichloropropene	75	9.159	9.160	(1.203)	422458	50.0000	54.4	
$	56 Toluene-D8	98	9.388	9.388	(1.233)	941897	50.0000	49.8	
	57 Toluene	91	9.452	9.452	(1.242)	1072676	50.0000	49.8	
	58 Tetrachloroethene	164	9.921	9.922	(0.881)	205083	50.0000	51.2	
	59 4-methyl-2-pentanone	43	9.953	9.954	(1.307)	1091237	250.000	284	
	60 trans-1,3-Dichloropropene	75	9.992	9.992	(1.313)	406674	50.0000	55.0	
	61 1,1,2-Trichloroethane	97	10.178	10.179	(1.337)	233750	50.0000	51.4	
	62 Ethyl Methacrylate	69	10.233	10.234	(1.344)	334325	50.0000	57.7	
	63 Dibromochloromethane	129	10.384	10.385	(0.922)	289297	50.0000	53.7	
	64 1,3-Dichloropropane	76	10.497	10.497	(0.932)	458806	50.0000	52.1	
	65 1,2-Dibromoethane	107	10.641	10.642	(1.398)	251807	50.0000	52.4	
	66 2-Hexanone	43	10.969	10.970	(0.974)	765973	250.000	287	
*	67 Chlorobenzene-D5	117	11.262	11.263	(1.000)	744248	50.0000		
	68 Chlorobenzene	112	11.281	11.282	(1.002)	683598	50.0000	49.4	
	69 Ethylbenzene	106	11.336	11.336	(1.007)	379877	50.0000	51.0	
	70 m+p-Xylenes	106	11.513	11.513	(1.022)	944691	100.000	103	
	71 1,1,1,2-Tetrachloroethane	131	11.371	11.372	(1.010)	274679	50.0000	52.6	
	72 o-Xylene	106	12.002	12.002	(1.066)	439631	50.0000	53.0	
	73 Styrene	104	12.066	12.066	(1.071)	745268	50.0000	55.1	
	74 Bromoform	173	12.072	12.073	(1.072)	184636	50.0000	56.4	
	75 Isopropylbenzene	105	12.368	12.369	(0.888)	1238999	50.0000	53.0	
$	76 P-Bromofluorobenzene	95	12.670	12.671	(1.664)	393084	50.0000	50.2	
	77 Bromobenzene	156	12.776	12.777	(0.917)	289730	50.0000	50.3	
	78 cis-1,4-Dichloro-2-Butene	53	12.767	12.767	(0.916)	107123	50.0000	54.6	

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6548.D
Report Date: 05-Oct-2023 10:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	79 N-Propylbenzene	91	12.841	12.841	(0.922)	1511303	50.0000	52.6	
	80 1,1,2,2-Tetrachloroethane	83	12.931	12.931	(0.928)	312759	50.0000	51.9	
	81 2-Chlorotoluene	91	12.998	12.999	(0.933)	909505	50.0000	52.2	
	82 1,2,3-Trichloropropane	75	13.063	13.063	(0.937)	297069	50.0000	52.0	
	83 1,3,5-Trimethylbenzene	105	13.069	13.070	(0.938)	1096944	50.0000	54.2	
	84 trans-1,4-Dichloro-2-Butene	53	13.120	13.121	(0.942)	104889	50.0000	57.2	
	85 4-Chlorotoluene	91	13.188	13.189	(0.946)	969213	50.0000	52.8	
	86 tert-Butylbenzene	119	13.423	13.423	(0.963)	904907	50.0000	52.8	
	87 1,2,4-Trimethylbenzene	105	13.503	13.504	(0.969)	1090141	50.0000	54.0	
	88 sec-Butylbenzene	105	13.625	13.626	(0.978)	1299481	50.0000	53.6	
	89 P-Isopropyltoluene	119	13.792	13.793	(0.990)	1145779	50.0000	54.5	
	90 1,3-Dichlorobenzene	146	13.847	13.848	(0.994)	554740	50.0000	50.4	
*	91 1,4-Dichlorobenzene-D4	152	13.934	13.934	(1.000)	399456	50.0000		
	92 1,4-Dichlorobenzene	146	13.950	13.951	(1.001)	570210	50.0000	49.8	
	93 1,2,3-Trimethylbenzene	105	13.989	13.989	(1.004)	1131327	50.0000	53.2	
	94 N-Butylbenzene	91	14.265	14.266	(1.024)	1118397	50.0000	55.3	
	95 1,2-Dichlorobenzene	146	14.419	14.420	(1.035)	529335	50.0000	50.7	
	96 1,2-Dibromo-3-Chloropropane	157	15.326	15.327	(1.100)	55938	50.0000	51.6	
	97 1,3,5-Trichlorobenzene	180	15.362	15.362	(1.102)	416226	50.0000	51.6	
	98 Hexachlorobutadiene	225	16.072	16.073	(1.153)	204139	50.0000	51.9	
	99 1,2,4-Trichlorobenzene	180	16.091	16.091	(1.155)	392844	50.0000	52.8	
	100 Naphthalene	128	16.461	16.462	(1.181)	859144	50.0000	53.8	
	101 1,2,3-Trichlorobenzene	180	16.670	16.671	(1.196)	369785	50.0000	52.7	
M	104 1,2-Dichloroethylene (total)	96				488418	50.0000	98.3	
M	105 Xylenes (total)	106				1384322	150.000	156	
M	106 Total Alkylbenzenes	100				8166952	50.0000	377	


Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6548.D
Date : 21-SEP-2023 16:50
Client ID:
Sample Info: WG342876-4
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-s.i
Operator: JSS
Column diameter: 0.18
\\target_server\gg\chem\gcms-s.i\S092123.b\S6548.D
Y (x10^6)
Min
-Dichlorodifluoromethane (1.459)
-Chloromethane (1.639)
-Vinyl Chloride (1.710)
-Bromomethane (1.999)
-Chloroethane (2.118)
-Trichlorofluoromethane (2.253)
-Diethyl Ether (2.559)
-1,1-Dichloroethene (2.761)+
-Iodomethane (2.916)
-Acrolein (3.125)
-Allyl Chloride (3.292)
-Methylene Chloride (3.417)+
-trans-1,2-Dichloroethene (3.620)+
-Methyl tert-butyl ether (3.774)
-Tertiary-butyl alcohol (3.912)
-Acetonitrile (4.080)
-Di-isopropyl ether (4.334)
-Chloroprene (4.463)+
-Acrylonitrile (4.559)
-Ethyl tertiary-butyl ethe (4.925)+
-cis-1,2-Dichloroethene (5.385)
-2,2-Dichloropropane (5.552)
-Cyclohexane (5.690)+
-Chloroform (5.854)
-Carbon Tetrachloride (6.031)+
-1,1,1-Trichlordethane (6.141)+
-1,1-Dichloropropene (6.337)+
-Benzene (6.697)+
-Pentafluorobenzene (6.887)+
-1,2-Dichloroethane (6.996)
-Isobutyl Alcohol (7.141)
-Methylcyclohexane (7.510)+
-1,4-Difluorobenzene (7.613)
-Dibromomethane (8.092)
-1,2-Dichloropropane (8.227)
-Bromodichloromethane (8.343)
-Methyl Methacrylate (8.597)+
-2-Chloroethylvinylether (9.115)+
-Toluene-D8 (9.388)+
-Tetrachloroethene (9.922)+
-1,1,2-Trichloroethane (10.179)+
-Dibromochloromethane (10.385)
-1,3-Dichloropropane (10.497)
-1,2-Dibromoethane (10.642)
-2-Hexanone (10.970)
-Chlorobenzene-D5 (11.272)+
m+p-Xylenes (11.513)
-o-Xylene (11.999)+
-Isopropylbenzene (12.369)
-P-Bromofluorobenzene (12.674)
-Bromobenzene (12.777)+
-1,1,2,2-Tetrachloroethane (12.931)+
-1,2,3-Trichloropropane (13.063)+
-4-Chlorotoluene (13.189)
-tert-Butylbenzene (13.423)+
-sec-Butylbenzene (13.626)
-P-Isopropyltoluene (13.793)+
-1,4-Dichlorobenzene-D4 (13.934)+
-N-Butylbenzene (14.266)
-1,2-Dichlorobenzene (14.420)
-1,2-Dibromo-3-Chloropropa (15.327)+
-Hexachlorobutadiene (16.089)+
-Naphthalene (16.462)
-1,2,3-Trichlorobenzene (16.671)

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6549.D
Report Date: 05-Oct-2023 10:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S092123.b\S6549.D
Lab Smp Id: WG342876-3
Inj Date : 21-SEP-2023 17:17
Operator : JSS   Inst ID: gcms-s.i
Smp Info : WG342876-3
Misc Info :
Comment   : SW846 5030C
Method   : \\target_server\gg\chem\gcms-s.i\S092123.b\S826(09)23.m
Meth Date : 22-Sep-2023 08:46 croy   Quant Type: ISTD
Cal Date : 21-SEP-2023 17:17   Cal File: S6549.D
Als bottle: 3   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.459	1.459	(0.212)	99038	20.0000	20.4	
2	Chloromethane	50	1.639	1.639	(0.238)	111709	20.0000	19.5	
3	Vinyl chloride	62	1.709	1.710	(0.248)	113674	20.0000	20.0	
4	Bromomethane	94	1.999	1.999	(0.290)	61589	20.0000	18.4	
5	Chloroethane	64	2.121	2.118	(0.308)	67653	20.0000	19.9	
6	Trichlorofluoromethane	101	2.253	2.253	(0.327)	196161	20.0000	20.3	
7	Diethyl Ether	59	2.561	2.559	(0.372)	84505	20.0000	20.4	
8	1,1-Dichloroethene	96	2.764	2.761	(0.401)	85093	20.0000	19.0	
9	Carbon Disulfide	76	2.790	2.790	(0.405)	188073	20.0000	19.6	
10	Freon-113	151	2.815	2.810	(0.409)	69776	20.0000	19.7	
11	Iodomethane	142	2.912	2.916	(0.423)	60600	20.0000	20.5	
12	Acrolein	56	3.124	3.125	(0.453)	48944	100.000	107	
13	Allyl Chloride	41	3.295	3.292	(0.478)	126452	20.0000	20.7	
14	Methylene Chloride	84	3.420	3.417	(0.496)	109386	20.0000	18.2	
15	Acetone	43	3.478	3.472	(0.505)	156317	100.000	114	
16	trans-1,2-Dichloroethene	96	3.626	3.620	(0.526)	101395	20.0000	19.9	
17	Methyl Acetate	43	3.648	3.642	(0.529)	75655	20.0000	20.9	
18	Methyl tert-butyl ether	73	3.774	3.774	(0.548)	280638	20.0000	20.3	
19	Acetonitrile	41	4.082	4.080	(0.592)	122492	200.000	220	
20	Tertiary-butyl alcohol	59	3.918	3.912	(0.569)	44334	100.000	120	
21	Di-isopropyl ether	45	4.333	4.333	(0.629)	285431	20.0000	20.6	
22	Chloroprene	53	4.462	4.453	(0.647)	168756	20.0000	20.2	
23	1,1-Dichloroethane	63	4.484	4.488	(0.651)	198698	20.0000	19.7	
24	Acrylonitrile	52	4.555	4.559	(0.661)	158333	100.000	109	

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6549.D
Report Date: 05-Oct-2023 10:28

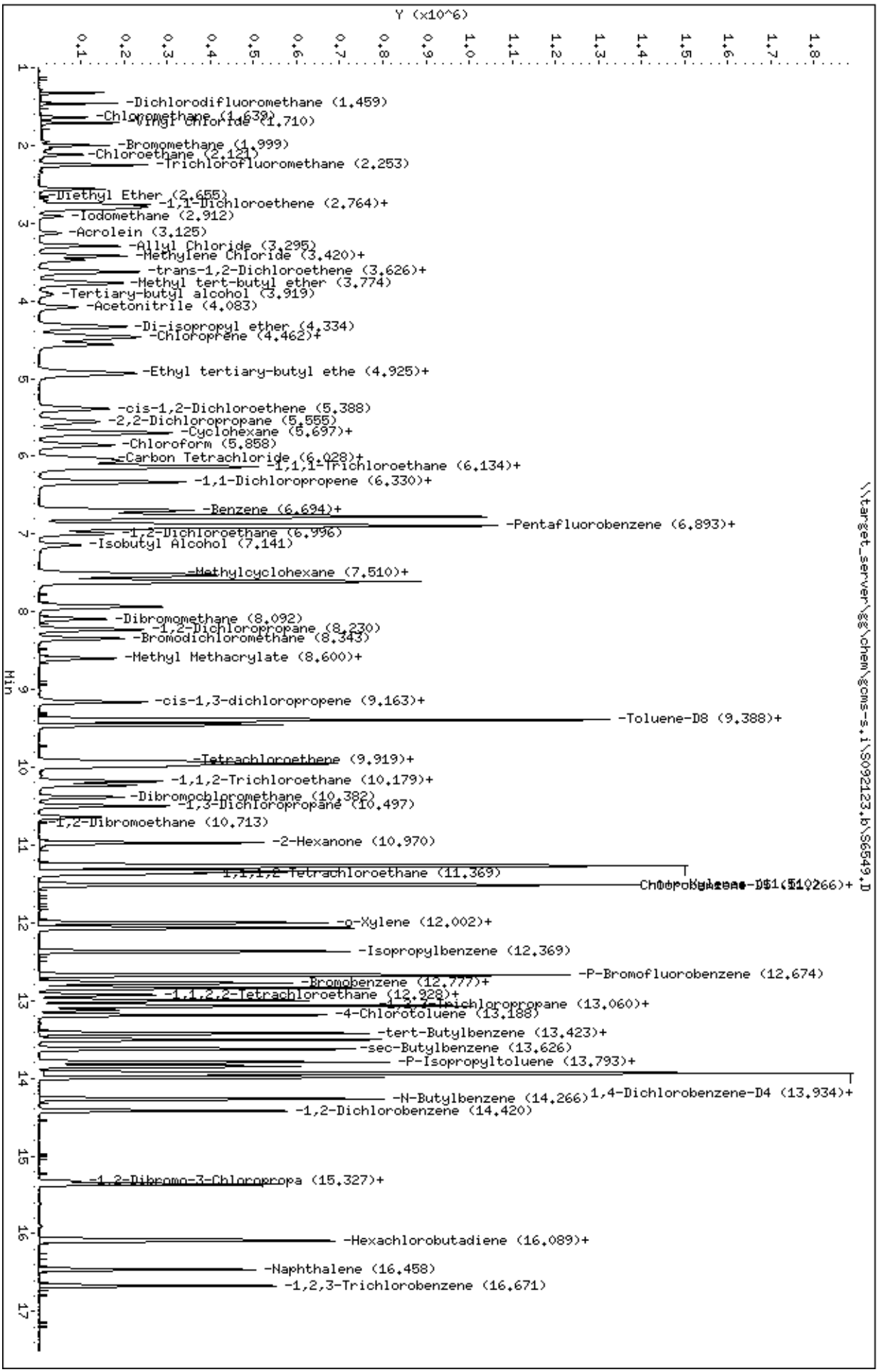
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25 Ethyl tertiary-butyl ether	59	4.925	4.925	(0.715)	277757	20.0000	20.2	
	26 Vinyl Acetate	43	4.944	4.935	(0.650)	180013	20.0000	20.3	
	27 cis-1,2-Dichloroethene	96	5.388	5.385	(0.782)	108604	20.0000	19.9	
	28 2,2-Dichloropropane	77	5.555	5.552	(0.806)	151324	20.0000	20.3	
	29 Cyclohexane	56	5.696	5.690	(0.826)	150569	20.0000	20.0	
	30 Bromochloromethane	128	5.703	5.703	(0.827)	47914	20.0000	20.3	
	31 Chloroform	83	5.857	5.854	(0.850)	217078	20.0000	19.9	
	32 Carbon Tetrachloride	117	6.028	6.031	(0.792)	161293	20.0000	20.4	
	33 Tetrahydrofuran	42	6.069	6.063	(0.881)	133992	100.000	112	
	34 1,1,1-Trichloroethane	97	6.134	6.141	(0.890)	205854	20.0000	20.0	
$	35 Dibromofluoromethane	113	6.134	6.134	(0.890)	278326	50.0000	49.8	
	36 1,1-Dichloropropene	75	6.330	6.337	(0.832)	158285	20.0000	20.2	
	37 2-Butanone	43	6.327	6.324	(0.918)	212848	100.000	111	
	38 Benzene	78	6.693	6.697	(0.880)	418278	20.0000	20.2	
	39 Propionitrile	54	6.745	6.735	(0.979)	148894	200.000	225	
	40 Methacrylonitrile	41	6.773	6.774	(0.983)	660552	200.000	222	
*	41 Pentafluorobenzene	168	6.892	6.887	(1.000)	503161	50.0000		
$	42 1,2-Dichloroethane-D4	65	6.896	6.896	(1.000)	416628	50.0000	50.1	
	43 Tertiary-amyl methyl ether	73	6.918	6.922	(1.004)	246207	20.0000	19.9	
	44 1,2-Dichloroethane	62	6.995	6.996	(0.920)	191171	20.0000	20.2	
	45 Isobutyl Alcohol	43	7.140	7.141	(1.036)	77187	400.000	460	
	46 Methylcyclohexane	83	7.510	7.510	(1.090)	167654	20.0000	20.1	
	47 Trichloroethene	95	7.542	7.542	(0.992)	115294	20.0000	19.5	
*	48 1,4-Difluorobenzene	114	7.606	7.613	(1.000)	850796	50.0000		
	49 Dibromomethane	93	8.092	8.092	(1.064)	72211	20.0000	20.8	
	50 1,2-Dichloropropane	63	8.230	8.227	(1.082)	105437	20.0000	20.2	
	51 Bromodichloromethane	83	8.343	8.343	(1.097)	160696	20.0000	20.5	
	52 Methyl Methacrylate	41	8.600	8.597	(1.131)	82366	20.0000	21.1	
	53 1,4-Dioxane	88	8.606	8.603	(1.131)	28356	400.000	519	
	54 2-Chloroethylvinylether	63	9.121	9.115	(1.199)	6910	20.0000	8.27(H)	
	55 cis-1,3-dichloropropene	75	9.162	9.160	(1.205)	167623	20.0000	20.5	
$	56 Toluene-D8	98	9.388	9.388	(1.234)	999912	50.0000	50.2	
	57 Toluene	91	9.452	9.452	(1.243)	456013	20.0000	20.1	
	58 Tetrachloroethene	164	9.918	9.922	(0.881)	85518	20.0000	20.1	
	59 4-methyl-2-pentanone	43	9.953	9.954	(1.309)	465151	100.000	115	
	60 trans-1,3-Dichloropropene	75	9.992	9.992	(1.314)	163409	20.0000	21.0	
	61 1,1,2-Trichloroethane	97	10.178	10.179	(1.338)	98614	20.0000	20.6	
	62 Ethyl Methacrylate	69	10.230	10.234	(1.345)	130854	20.0000	21.4	
	63 Dibromochloromethane	129	10.381	10.385	(0.922)	115602	20.0000	20.2	
	64 1,3-Dichloropropane	76	10.497	10.497	(0.932)	192591	20.0000	20.6	
	65 1,2-Dibromoethane	107	10.638	10.642	(1.399)	105355	20.0000	20.8	
	66 2-Hexanone	43	10.969	10.970	(0.974)	332083	100.000	118	
*	67 Chlorobenzene-D5	117	11.262	11.263	(1.000)	788842	50.0000		
	68 Chlorobenzene	112	11.281	11.282	(1.002)	294207	20.0000	20.0	
	69 Ethylbenzene	106	11.336	11.336	(1.007)	158311	20.0000	20.0	
	70 m+p-Xylenes	106	11.513	11.513	(1.022)	390511	40.0000	40.2	
	71 1,1,1,2-Tetrachloroethane	131	11.368	11.372	(1.009)	113273	20.0000	20.5	
	72 o-Xylene	106	11.998	12.002	(1.065)	179616	20.0000	20.4	
	73 Styrene	104	12.066	12.066	(1.071)	298273	20.0000	20.9	
	74 Bromoform	173	12.072	12.073	(1.072)	71576	20.0000	20.6	
	75 Isopropylbenzene	105	12.365	12.369	(0.887)	499122	20.0000	20.5	
$	76 P-Bromofluorobenzene	95	12.674	12.671	(1.666)	416387	50.0000	50.5	
	77 Bromobenzene	156	12.776	12.777	(0.917)	122318	20.0000	20.3	
	78 cis-1,4-Dichloro-2-Butene	53	12.767	12.767	(0.916)	44764	20.0000	21.9	

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6549.D
Report Date: 05-Oct-2023 10:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	79 N-Propylbenzene	91	12.841	12.841	(0.922)	615313	20.0000	20.5	
	80 1,1,2,2-Tetrachloroethane	83	12.928	12.931	(0.928)	135812	20.0000	21.6	
	81 2-Chlorotoluene	91	12.998	12.999	(0.933)	369783	20.0000	20.3	
	82 1,2,3-Trichloropropane	75	13.059	13.063	(0.937)	129532	20.0000	21.7	
	83 1,3,5-Trimethylbenzene	105	13.069	13.070	(0.938)	441359	20.0000	20.9	
	84 trans-1,4-Dichloro-2-Butene	53	13.120	13.121	(0.942)	43007	20.0000	22.5	
	85 4-Chlorotoluene	91	13.188	13.189	(0.946)	397058	20.0000	20.7	
	86 tert-Butylbenzene	119	13.423	13.423	(0.963)	369354	20.0000	20.6	
	87 1,2,4-Trimethylbenzene	105	13.503	13.504	(0.969)	439997	20.0000	20.9	
	88 sec-Butylbenzene	105	13.625	13.626	(0.978)	521023	20.0000	20.6	
	89 P-Isopropyltoluene	119	13.792	13.793	(0.990)	453905	20.0000	20.7	
	90 1,3-Dichlorobenzene	146	13.847	13.848	(0.994)	235832	20.0000	20.5	
*	91 1,4-Dichlorobenzene-D4	152	13.934	13.934	(1.000)	417049	50.0000		
	92 1,4-Dichlorobenzene	146	13.950	13.951	(1.001)	239595	20.0000	20.1	
	93 1,2,3-Trimethylbenzene	105	13.989	13.989	(1.004)	459497	20.0000	20.7	
	94 N-Butylbenzene	91	14.265	14.266	(1.024)	437682	20.0000	20.7	
	95 1,2-Dichlorobenzene	146	14.419	14.420	(1.035)	222092	20.0000	20.4	
	96 1,2-Dibromo-3-Chloropropane	157	15.326	15.327	(1.100)	23003	20.0000	20.4	
	97 1,3,5-Trichlorobenzene	180	15.362	15.362	(1.102)	169420	20.0000	20.1	
	98 Hexachlorobutadiene	225	16.075	16.073	(1.154)	81832	20.0000	20.0	
	99 1,2,4-Trichlorobenzene	180	16.091	16.091	(1.155)	153096	20.0000	19.7	
	100 Naphthalene	128	16.461	16.462	(1.181)	369478	20.0000	22.2	
	101 1,2,3-Trichlorobenzene	180	16.670	16.671	(1.196)	153371	20.0000	20.9	
M	104 1,2-Dichloroethylene (total)	96				209999	20.0000	39.8	
M	105 Xylenes (total)	106				570127	60.0000	60.6	
M	106 Total Alkylbenzenes	100				3278633	20.0000	145	

QC Flag Legend

H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6549.D
Date : 21-SEP-2023 17:17
Client ID:
Sample Info: WG342876-3
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-s.i
Operator: JSS
Column diameter: 0.18
\\target_server\gg\chem\gcms-s.i\S092123.b\S6549.D
Y (x10^6)
Min
-Dichlorodifluoromethane (1.459)
-Chloromethane (1.639)
-Vinyl Chloride (1.710)
-Bromomethane (1.999)
-Chloroethane (2.121)
-Trichlorofluoromethane (2.253)
-Diethyl Ether (2.655)
-1,1-Dichloroethene (2.764)+
-Iodomethane (2.912)
-Acrolein (3.125)
-Allyl Chloride (3.295)
-Methylene Chloride (3.420)+
-trans-1,2-Dichloroethene (3.626)+
-Methyl tert-butyl ether (3.774)
-Tertiary-butyl alcohol (3.919)
-Acetonitrile (4.083)
-Di-isopropyl ether (4.334)
-Chloroprene (4.462)+
-Ethyl tertiary-butyl ethe (4.925)+
-cis-1,2-Dichloroethene (5.388)
-2,2-Dichloropropane (5.555)
-Cyclohexane (5.697)+
-Chloroform (5.858)
-Carbon Tetrachloride (6.028)+
-1,1,1-Trichloroethane (6.134)+
-1,1-Dichloropropene (6.330)+
-Benzene (6.694)+
-Pentafluorobenzene (6.893)+
-1,2-Dichloroethane (6.996)
-Isobutyl Alcohol (7.141)
-Methylcyclohexane (7.510)+
-Dibromomethane (8.092)
-1,2-Dichloropropane (8.230)
-Bromodichloromethane (8.343)
-Methyl Methacrylate (8.600)+
-cis-1,3-dichloropropene (9.163)+
-Toluene-D8 (9.388)+
-Tetrachloroethene (9.919)+
-1,1,2-Trichloroethane (10.179)+
-Dibromochloromethane (10.382)
-1,3-Dichloropropane (10.497)
-1,2-Dibromoethane (10.713)
-2-Hexanone (10.970)
1,1,1,2-Tetrachloroethane (11.369)
-o-Xylene (12.002)+
-Isopropylbenzene (12.369)
-P-Bromofluorobenzene (12.674)
-Bromobenzene (12.777)+
-1,1,2,2-Tetrachloroethane (12.928)+
-4-Chlorotoluene (13.188)
-tert-Butylbenzene (13.423)+
-sec-Butylbenzene (13.626)
-P-Isopropyltoluene (13.793)+
1,4-Dichlorobenzene-D4 (13.934)+
-N-Butylbenzene (14.266)
-1,2-Dichlorobenzene (14.420)
-1,2-Dibromo-3-Chloropropa (15.327)+
-Hexachlorobutadiene (16.089)+
-Naphthalene (16.458)
-1,2,3-Trichlorobenzene (16.671)

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6550.D
Report Date: 05-Oct-2023 10:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S092123.b\S6550.D
Lab Smp Id: WG342876-8
Inj Date : 21-SEP-2023 17:44
Operator : JSS   Inst ID: gcms-s.i
Smp Info : WG342876-8
Misc Info :
Comment   : SW846 5030C
Method   : \\target_server\gg\chem\gcms-s.i\S092123.b\S826(09)23.m
Meth Date : 22-Sep-2023 08:46 croy   Quant Type: ISTD
Cal Date : 21-SEP-2023 17:44   Cal File: S6550.D
Als bottle: 4   Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

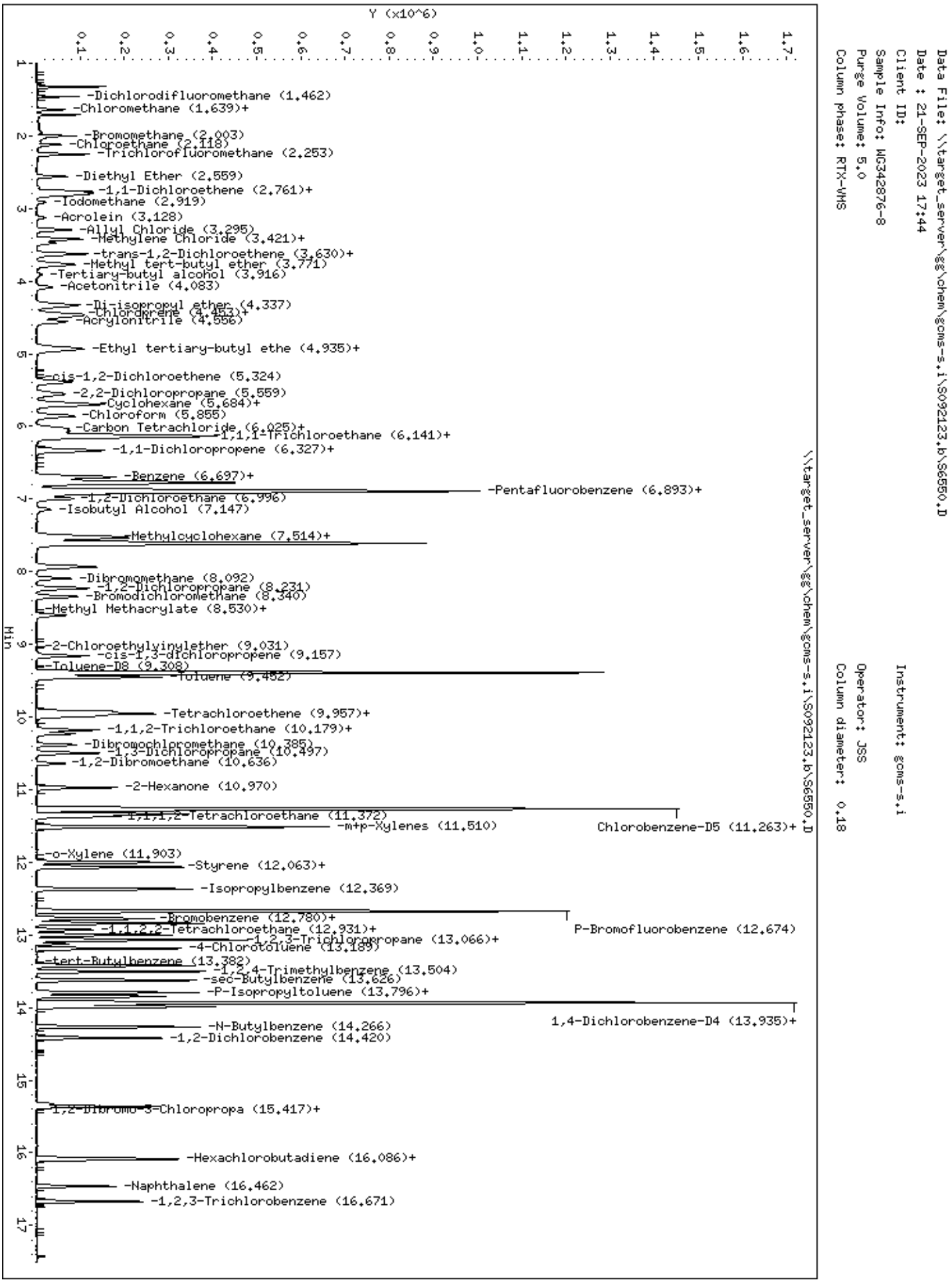
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.462	1.459	(0.212)	48184	10.0000	10.1	
2	Chloromethane	50	1.639	1.639	(0.238)	56025	10.0000	9.96	
3	Vinyl chloride	62	1.710	1.710	(0.248)	54060	10.0000	9.67	
4	Bromomethane	94	2.002	1.999	(0.291)	30652	10.0000	9.34	
5	Chloroethane	64	2.118	2.118	(0.307)	35201	10.0000	10.5	
6	Trichlorofluoromethane	101	2.253	2.253	(0.327)	95393	10.0000	10.0	
7	Diethyl Ether	59	2.558	2.559	(0.371)	39110	10.0000	9.58	
8	1,1-Dichloroethene	96	2.761	2.761	(0.401)	43111	10.0000	9.79	
9	Carbon Disulfide	76	2.787	2.790	(0.404)	92091	10.0000	9.73	
10	Freon-113	151	2.809	2.810	(0.408)	35937	10.0000	10.3	
11	Iodomethane	142	2.918	2.916	(0.423)	23179	10.0000	8.00	
12	Acrolein	56	3.127	3.125	(0.454)	19454	50.0000	43.2	
13	Allyl Chloride	41	3.295	3.292	(0.478)	53898	10.0000	8.98	
14	Methylene Chloride	84	3.420	3.417	(0.496)	56337	10.0000	9.54	
15	Acetone	43	3.471	3.472	(0.504)	62591	50.0000	46.4	
16	trans-1,2-Dichloroethene	96	3.629	3.620	(0.527)	49247	10.0000	9.83	
17	Methyl Acetate	43	3.652	3.642	(0.530)	32491	10.0000	9.10	
18	Methyl tert-butyl ether	73	3.771	3.774	(0.547)	124857	10.0000	9.19	
19	Acetonitrile	41	4.082	4.080	(0.592)	52616	100.000	96.1	
20	Tertiary-butyl alcohol	59	3.915	3.912	(0.568)	15399	50.0000	42.5	
21	Di-isopropyl ether	45	4.336	4.333	(0.629)	132597	10.0000	9.73	
22	Chloroprene	53	4.452	4.453	(0.646)	79459	10.0000	9.63	
23	1,1-Dichloroethane	63	4.484	4.488	(0.651)	99326	10.0000	10.0	
24	Acrylonitrile	52	4.555	4.559	(0.661)	67319	50.0000	47.1	

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6550.D
Report Date: 05-Oct-2023 10:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25 Ethyl tertiary-butyl ether	59	4.934	4.925	(0.716)	129482	10.0000	9.59	
	26 Vinyl Acetate	43	4.934	4.935	(0.648)	80768	10.0000	9.15	
	27 cis-1,2-Dichloroethene	96	5.391	5.385	(0.782)	52835	10.0000	9.82	
	28 2,2-Dichloropropane	77	5.558	5.552	(0.806)	72229	10.0000	9.87	
	29 Cyclohexane	56	5.684	5.690	(0.825)	71315	10.0000	9.65	
	30 Bromochloromethane	128	5.693	5.703	(0.826)	24978	10.0000	10.7	
	31 Chloroform	83	5.854	5.854	(0.849)	107143	10.0000	9.99	
	32 Carbon Tetrachloride	117	6.024	6.031	(0.792)	73437	10.0000	9.33	
	33 Tetrahydrofuran	42	6.063	6.063	(0.880)	50974	50.0000	43.4	
	34 1,1,1-Trichloroethane	97	6.140	6.141	(0.891)	98409	10.0000	9.73	
$	35 Dibromofluoromethane	113	6.137	6.134	(0.890)	269328	50.0000	49.0	
	36 1,1-Dichloropropene	75	6.333	6.337	(0.832)	75345	10.0000	9.69	
	37 2-Butanone	43	6.330	6.324	(0.918)	85280	50.0000	45.4	
	38 Benzene	78	6.696	6.697	(0.880)	205440	10.0000	9.96	
	39 Propionitrile	54	6.735	6.735	(0.977)	61410	100.000	94.4	
	40 Methacrylonitrile	41	6.774	6.774	(0.983)	284557	100.000	97.1	
*	41 Pentafluorobenzene	168	6.893	6.887	(1.000)	494874	50.0000		
$	42 1,2-Dichloroethane-D4	65	6.899	6.896	(1.001)	406667	50.0000	49.8	
	43 Tertiary-amyl methyl ether	73	6.922	6.922	(1.004)	113482	10.0000	9.34	
	44 1,2-Dichloroethane	62	6.995	6.996	(0.919)	93051	10.0000	9.89	
	45 Isobutyl Alcohol	43	7.147	7.141	(1.037)	25214	200.000	153	
	46 Methylcyclohexane	83	7.513	7.510	(1.090)	79426	10.0000	9.69	
	47 Trichloroethene	95	7.539	7.542	(0.991)	57511	10.0000	9.78	
*	48 1,4-Difluorobenzene	114	7.610	7.613	(1.000)	845377	50.0000		
	49 Dibromomethane	93	8.092	8.092	(1.063)	34649	10.0000	10.0	
	50 1,2-Dichloropropane	63	8.230	8.227	(1.082)	52729	10.0000	10.2	
	51 Bromodichloromethane	83	8.339	8.343	(1.096)	77675	10.0000	9.99	
	52 Methyl Methacrylate	41	8.590	8.597	(1.129)	33530	10.0000	8.65	
	53 1,4-Dioxane	88	8.603	8.603	(1.131)	9903	200.000	182	
	54 2-Chloroethylvinylether	63	9.118	9.115	(1.198)	1747	10.0000	3.23	
	55 cis-1,3-dichloropropene	75	9.156	9.160	(1.203)	75677	10.0000	9.32	
$	56 Toluene-D8	98	9.388	9.388	(1.234)	984476	50.0000	49.7	
	57 Toluene	91	9.452	9.452	(1.242)	220318	10.0000	9.76	
	58 Tetrachloroethene	164	9.921	9.922	(0.881)	42269	10.0000	9.98	
	59 4-methyl-2-pentanone	43	9.957	9.954	(1.308)	181530	50.0000	45.2	
	60 trans-1,3-Dichloropropene	75	9.989	9.992	(1.313)	73488	10.0000	9.49	
	61 1,1,2-Trichloroethane	97	10.179	10.179	(1.338)	46542	10.0000	9.78	
	62 Ethyl Methacrylate	69	10.233	10.234	(1.345)	50294	10.0000	8.28	
	63 Dibromochloromethane	129	10.384	10.385	(0.922)	53266	10.0000	9.34	
	64 1,3-Dichloropropane	76	10.497	10.497	(0.932)	92107	10.0000	9.88	
	65 1,2-Dibromoethane	107	10.635	10.642	(1.398)	48239	10.0000	9.59	
	66 2-Hexanone	43	10.970	10.970	(0.974)	123032	50.0000	43.5	
*	67 Chlorobenzene-D5	117	11.259	11.263	(1.000)	787267	50.0000		
	68 Chlorobenzene	112	11.281	11.282	(1.002)	144864	10.0000	9.89	
	69 Ethylbenzene	106	11.333	11.336	(1.007)	76994	10.0000	9.76	
	70 m+p-Xylenes	106	11.513	11.513	(1.023)	188879	20.0000	19.5	
	71 1,1,1,2-Tetrachloroethane	131	11.372	11.372	(1.010)	53833	10.0000	9.75	
	72 o-Xylene	106	11.998	12.002	(1.066)	84188	10.0000	9.60	
	73 Styrene	104	12.063	12.066	(1.071)	137875	10.0000	9.64	
	74 Bromoform	173	12.072	12.073	(1.072)	31562	10.0000	9.12	
	75 Isopropylbenzene	105	12.368	12.369	(0.888)	245472	10.0000	10.2	
$	76 P-Bromofluorobenzene	95	12.674	12.671	(1.665)	407887	50.0000	49.8	
	77 Bromobenzene	156	12.780	12.777	(0.917)	59456	10.0000	9.99	
	78 cis-1,4-Dichloro-2-Butene	53	12.767	12.767	(0.916)	17376	10.0000	8.58	

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6550.D
Report Date: 05-Oct-2023 10:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	79 N-Propylbenzene	91	12.841	12.841	(0.922)	298345	10.0000	10.0	
	80 1,1,2,2-Tetrachloroethane	83	12.931	12.931	(0.928)	61571	10.0000	9.89	
	81 2-Chlorotoluene	91	13.002	12.999	(0.933)	181802	10.0000	10.1	
	82 1,2,3-Trichloropropane	75	13.066	13.063	(0.938)	57508	10.0000	9.74	
	83 1,3,5-Trimethylbenzene	105	13.072	13.070	(0.938)	208584	10.0000	9.98	
	84 trans-1,4-Dichloro-2-Butene	53	13.124	13.121	(0.942)	16919	10.0000	8.93	
	85 4-Chlorotoluene	91	13.188	13.189	(0.946)	191814	10.0000	10.1	
	86 tert-Butylbenzene	119	13.423	13.423	(0.963)	175019	10.0000	9.87	
	87 1,2,4-Trimethylbenzene	105	13.503	13.504	(0.969)	211211	10.0000	10.1	
	88 sec-Butylbenzene	105	13.625	13.626	(0.978)	252848	10.0000	10.1	
	89 P-Isopropyltoluene	119	13.796	13.793	(0.990)	213029	10.0000	9.81	
	90 1,3-Dichlorobenzene	146	13.847	13.848	(0.994)	115205	10.0000	10.1	
*	91 1,4-Dichlorobenzene-D4	152	13.934	13.934	(1.000)	412765	50.0000		
	92 1,4-Dichlorobenzene	146	13.950	13.951	(1.001)	118718	10.0000	10.0	
	93 1,2,3-Trimethylbenzene	105	13.989	13.989	(1.004)	220236	10.0000	10.0	
	94 N-Butylbenzene	91	14.265	14.266	(1.024)	206341	10.0000	9.88	
	95 1,2-Dichlorobenzene	146	14.420	14.420	(1.035)	107972	10.0000	10.0	
	96 1,2-Dibromo-3-Chloropropane	157	15.330	15.327	(1.100)	9677	10.0000	8.65	
	97 1,3,5-Trichlorobenzene	180	15.365	15.362	(1.103)	80777	10.0000	9.69	
	98 Hexachlorobutadiene	225	16.075	16.073	(1.154)	39082	10.0000	9.63	
	99 1,2,4-Trichlorobenzene	180	16.092	16.091	(1.155)	71815	10.0000	9.34	
	100 Naphthalene	128	16.461	16.462	(1.181)	134761	10.0000	8.18	
	101 1,2,3-Trichlorobenzene	180	16.670	16.671	(1.196)	68852	10.0000	9.50	
M	104 1,2-Dichloroethylene (total)	96				102082	10.0000	19.6	
M	105 Xylenes (total)	106				273067	30.0000	29.1	
M	106 Total Alkylbenzenes	100				1565377	10.0000	69.8	


Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6550.D
Date : 21-SEP-2023 17:44
Client ID:
Sample Info: WG342876-8
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-s.i
Operator: JSS
Column diameter: 0.18
\\target_server\gg\chem\gcms-s.i\S092123.b\S6550.D
Y (x10^6)
Min
-Dichlorodifluoromethane (1.462)
-Chloromethane (1.639)+
-Bromomethane (2.003)
-Chloroethane (2.118)
-Trichlorofluoromethane (2.253)
-Diethyl Ether (2.559)
-1,1-Dichloroethene (2.761)+
-Iodomethane (2.919)
-Acrolein (3.128)
-Allyl Chloride (3.295)
-Methylene Chloride (3.421)+
-trans-1,2-Dichloroethene (3.630)+
-Methyl tert-butyl ether (3.771)
-Tertiary-butyl alcohol (3.916)
-Acetonitrile (4.083)
-Di-isopropyl ether (4.337)
-Chloroprene (4.453)+
-Acrylonitrile (4.556)
-Ethyl tertiary-butyl ethe (4.935)+
-cis-1,2-Dichloroethene (5.324)
-2,2-Dichloropropane (5.559)
-Cyclohexane (5.684)+
-Chloroform (5.855)
-Carbon Tetrachloride (6.025)+
-1,1,1-Trichloroethane (6.141)+
-1,1-Dichloropropene (6.327)+
-Benzene (6.697)+
-Pentafluorobenzene (6.893)+
-1,2-Dichloroethane (6.996)
-Isobutyl Alcohol (7.147)
-Methylcyclohexane (7.514)+
-Dibromomethane (8.092)
-1,2-Dichloropropane (8.231)
-Bromodichloromethane (8.340)
-Methyl Methacrylate (8.530)+
-2-Chloroethylvinylether (9.031)
-cis-1,3-dichloropropene (9.157)
-Toluene-D8 (9.308)
-Toluene (9.482)
-Tetrachloroethene (9.957)+
-1,1,2-Trichloroethane (10.179)+
-Dibromochloromethane (10.385)
-1,3-Dichloropropane (10.497)
-1,2-Dibromoethane (10.636)
-2-Hexanone (10.970)
-1,1,1,2-Tetrachloroethane (11.372)
-m+p-Xylenes (11.510)
Chlorobenzene-D5 (11.263)+
-o-Xylene (11.903)
-Styrene (12.063)+
-Isopropylbenzene (12.369)
-Bromobenzene (12.780)+
P-Bromofluorobenzene (12.674)
-1,1,2,2-Tetrachloroethane (12.931)+
-1,2,3-Trichloropropane (13.066)+
-4-Chlorotoluene (13.189)
-tert-Butylbenzene (13.382)
-1,2,4-Trimethylbenzene (13.504)
-sec-Butylbenzene (13.626)
-P-Isopropyltoluene (13.796)+
1,4-Dichlorobenzene-D4 (13.935)+
-N-Butylbenzene (14.266)
-1,2-Dichlorobenzene (14.420)
1,2-Dibromo-3-Chloropropa (15.417)+
-Hexachlorobutadiene (16.086)+
-Naphthalene (16.462)
-1,2,3-Trichlorobenzene (16.671)

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6551.D
Report Date: 05-Oct-2023 10:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S092123.b\S6551.D
Lab Smp Id: WG342876-2
Inj Date : 21-SEP-2023 18:10
Operator : JSS   Inst ID: gcms-s.i
Smp Info : WG342876-2
Misc Info :
Comment   : SW846 5030C
Method   : \\target_server\gg\chem\gcms-s.i\S092123.b\S826(09)23.m
Meth Date : 22-Sep-2023 08:46 croy   Quant Type: ISTD
Cal Date : 21-SEP-2023 18:10   Cal File: S6551.D
Als bottle: 5   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.462	1.459	(0.212)	26301	5.00000	5.44	
2	Chloromethane	50	1.635	1.639	(0.237)	33711	5.00000	5.93	
3	Vinyl chloride	62	1.709	1.710	(0.248)	33513	5.00000	5.93	
4	Bromomethane	94	2.002	1.999	(0.291)	20697	5.00000	6.24	
5	Chloroethane	64	2.118	2.118	(0.307)	20942	5.00000	6.19	
6	Trichlorofluoromethane	101	2.253	2.253	(0.327)	51705	5.00000	5.38	
7	Diethyl Ether	59	2.558	2.559	(0.371)	19911	5.00000	4.83	
8	1,1-Dichloroethene	96	2.761	2.761	(0.401)	24967	5.00000	5.61	
9	Carbon Disulfide	76	2.790	2.790	(0.405)	55083	5.00000	5.76	
10	Freon-113	151	2.809	2.810	(0.408)	17637	5.00000	5.01	
11	Iodomethane	142	2.912	2.916	(0.423)	14101	5.00000	4.82	
12	Acrolein	56	3.127	3.125	(0.454)	10866	25.0000	23.9	
13	Allyl Chloride	41	3.295	3.292	(0.478)	32862	5.00000	5.42	
14	Methylene Chloride	84	3.417	3.417	(0.496)	35357	5.00000	5.92	
15	Acetone	43	3.471	3.472	(0.504)	34868	25.0000	25.6	
16	trans-1,2-Dichloroethene	96	3.626	3.620	(0.526)	30308	5.00000	5.99	
17	Methyl Acetate	43	3.645	3.642	(0.529)	18746	5.00000	5.20	
18	Methyl tert-butyl ether	73	3.774	3.774	(0.548)	64931	5.00000	4.73	
19	Acetonitrile	41	4.076	4.080	(0.592)	27981	50.0000	50.6	
20	Tertiary-butyl alcohol	59	3.915	3.912	(0.568)	8693	25.0000	23.7	
21	Di-isopropyl ether	45	4.330	4.333	(0.629)	64561	5.00000	4.69	
22	Chloroprene	53	4.455	4.453	(0.647)	42724	5.00000	5.12	
23	1,1-Dichloroethane	63	4.487	4.488	(0.651)	58059	5.00000	5.80	
24	Acrylonitrile	52	4.555	4.559	(0.661)	36938	25.0000	25.6	

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6551.D
Report Date: 05-Oct-2023 10:28

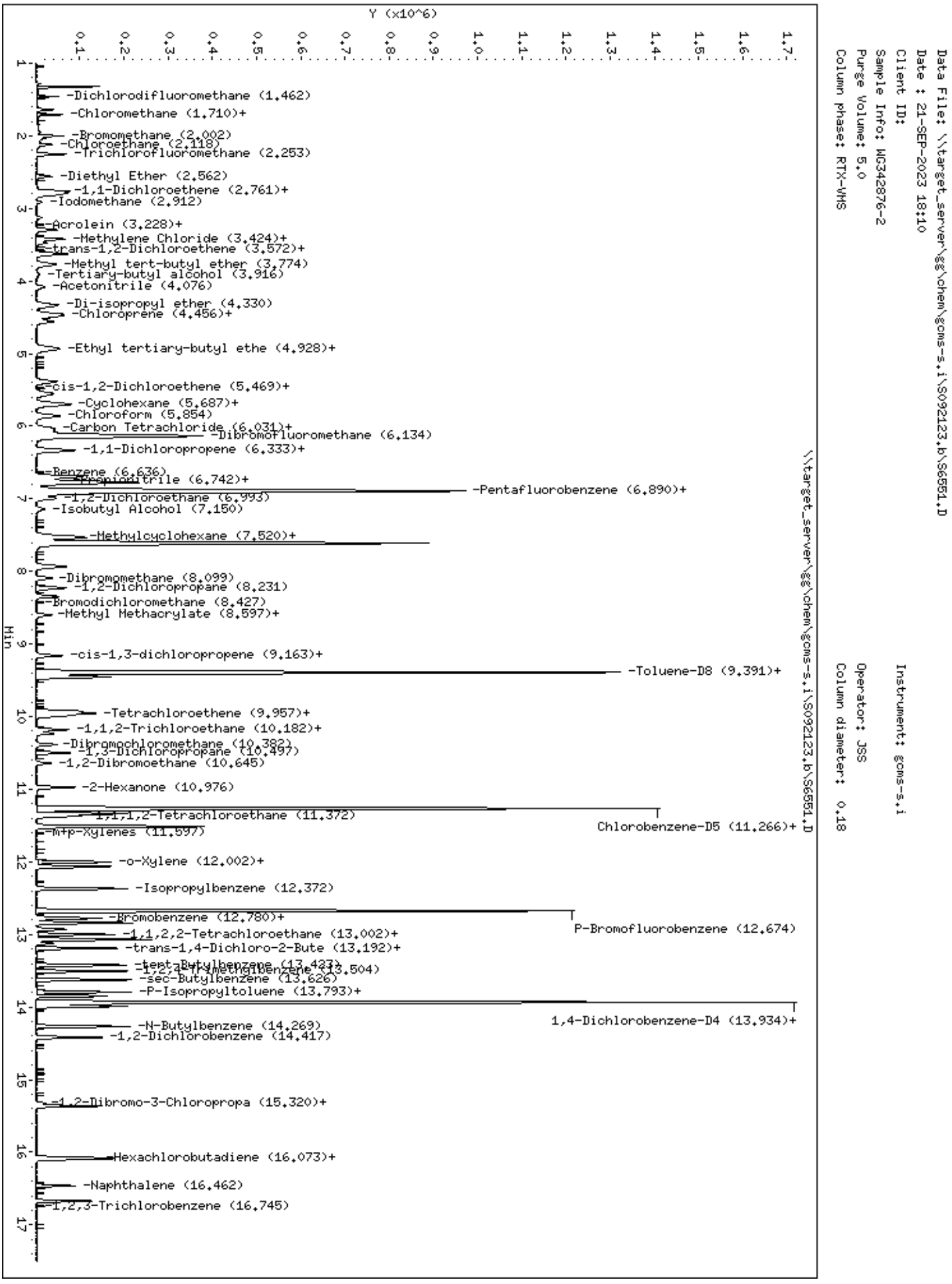
							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 Ethyl tertiary-butyl ether	59	4.928	4.925	(0.715)	61772	5.00000	4.53	
	26 Vinyl Acetate	43	4.944	4.935	(0.650)	43098	5.00000	4.87	
	27 cis-1,2-Dichloroethene	96	5.384	5.385	(0.782)	29009	5.00000	5.34	
	28 2,2-Dichloropropane	77	5.555	5.552	(0.806)	40765	5.00000	5.51	
	29 Cyclohexane	56	5.687	5.690	(0.825)	36303	5.00000	4.86	
	30 Bromochloromethane	128	5.696	5.703	(0.827)	12866	5.00000	5.47	
	31 Chloroform	83	5.854	5.854	(0.850)	60385	5.00000	5.57	
	32 Carbon Tetrachloride	117	6.031	6.031	(0.793)	42004	5.00000	5.32	
	33 Tetrahydrofuran	42	6.073	6.063	(0.881)	27518	25.0000	23.2	
	34 1,1,1-Trichloroethane	97	6.130	6.141	(0.890)	58012	5.00000	5.68	
$	35 Dibromofluoromethane	113	6.134	6.134	(0.890)	277553	50.0000	49.9	
	36 1,1-Dichloropropene	75	6.333	6.337	(0.833)	44830	5.00000	5.75	
	37 2-Butanone	43	6.330	6.324	(0.919)	45849	25.0000	24.2	
	38 Benzene	78	6.696	6.697	(0.880)	121381	5.00000	5.87	
	39 Propionitrile	54	6.741	6.735	(0.979)	32210	50.0000	49.0	
	40 Methacrylonitrile	41	6.770	6.774	(0.983)	146856	50.0000	49.6	
*	41 Pentafluorobenzene	168	6.889	6.887	(1.000)	500010	50.0000		
$	42 1,2-Dichloroethane-D4	65	6.899	6.896	(1.001)	414001	50.0000	50.2	
	43 Tertiary-amyl methyl ether	73	6.921	6.922	(1.005)	57246	5.00000	4.66	
	44 1,2-Dichloroethane	62	6.992	6.996	(0.919)	50303	5.00000	5.33	
	45 Isobutyl Alcohol	43	7.150	7.141	(1.038)	13973	100.000	84.0	
	46 Methylcyclohexane	83	7.519	7.510	(1.091)	37960	5.00000	4.58	
	47 Trichloroethene	95	7.539	7.542	(0.991)	34833	5.00000	5.91	
*	48 1,4-Difluorobenzene	114	7.606	7.613	(1.000)	847187	50.0000		
	49 Dibromomethane	93	8.098	8.092	(1.065)	17159	5.00000	4.96	
	50 1,2-Dichloropropane	63	8.230	8.227	(1.082)	27297	5.00000	5.25	
	51 Bromodichloromethane	83	8.336	8.343	(1.096)	40347	5.00000	5.18	
	52 Methyl Methacrylate	41	8.597	8.597	(1.130)	15836	5.00000	4.08	
	53 1,4-Dioxane	88	8.600	8.603	(1.131)	5186	100.000	95.4	
	54 2-Chloroethylvinylether	63	9.124	9.115	(1.200)	1271	5.00000	5.92(TH)	
	55 cis-1,3-dichloropropene	75	9.162	9.160	(1.205)	38920	5.00000	4.78	
$	56 Toluene-D8	98	9.391	9.388	(1.235)	992149	50.0000	50.0	
	57 Toluene	91	9.455	9.452	(1.243)	134148	5.00000	5.93	
	58 Tetrachloroethene	164	9.918	9.922	(0.880)	24953	5.00000	5.93	
	59 4-methyl-2-pentanone	43	9.957	9.954	(1.309)	92979	25.0000	23.1	
	60 trans-1,3-Dichloropropene	75	9.995	9.992	(1.314)	36517	5.00000	4.71	
	61 1,1,2-Trichloroethane	97	10.182	10.179	(1.339)	24584	5.00000	5.15	
	62 Ethyl Methacrylate	69	10.236	10.234	(1.346)	24389	5.00000	4.00	
	63 Dibromochloromethane	129	10.381	10.385	(0.922)	26499	5.00000	4.68	
	64 1,3-Dichloropropane	76	10.497	10.497	(0.932)	47138	5.00000	5.09	
	65 1,2-Dibromoethane	107	10.645	10.642	(1.399)	25313	5.00000	5.02	
	66 2-Hexanone	43	10.976	10.970	(0.974)	63642	25.0000	22.7	
*	67 Chlorobenzene-D5	117	11.265	11.263	(1.000)	781328	50.0000		
	68 Chlorobenzene	112	11.281	11.282	(1.001)	82955	5.00000	5.71	
	69 Ethylbenzene	106	11.339	11.336	(1.007)	45189	5.00000	5.77	
	70 m+p-Xylenes	106	11.516	11.513	(1.022)	111044	10.0000	11.5	
	71 1,1,1,2-Tetrachloroethane	131	11.371	11.372	(1.009)	27590	5.00000	5.03	
	72 o-Xylene	106	12.005	12.002	(1.066)	48005	5.00000	5.51	
	73 Styrene	104	12.059	12.066	(1.070)	69207	5.00000	4.88	
	74 Bromoform	173	12.076	12.073	(1.072)	16094	5.00000	4.68	
	75 Isopropylbenzene	105	12.371	12.369	(0.888)	139950	5.00000	5.77	
$	76 P-Bromofluorobenzene	95	12.674	12.671	(1.666)	414413	50.0000	50.5	
	77 Bromobenzene	156	12.780	12.777	(0.917)	31907	5.00000	5.34	
	78 cis-1,4-Dichloro-2-Butene	53	12.767	12.767	(0.916)	9910	5.00000	4.87	

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6551.D
Report Date: 05-Oct-2023 10:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	79 N-Propylbenzene	91	12.841	12.841	(0.922)	171087	5.00000	5.74	
	80 1,1,2,2-Tetrachloroethane	83	12.928	12.931	(0.928)	32301	5.00000	5.17	
	81 2-Chlorotoluene	91	12.998	12.999	(0.933)	102125	5.00000	5.65	
	82 1,2,3-Trichloropropane	75	13.066	13.063	(0.938)	30635	5.00000	5.17	
	83 1,3,5-Trimethylbenzene	105	13.072	13.070	(0.938)	117031	5.00000	5.58	
	84 trans-1,4-Dichloro-2-Butene	53	13.121	13.121	(0.942)	8557	5.00000	4.50	
	85 4-Chlorotoluene	91	13.191	13.189	(0.947)	105748	5.00000	5.55	
	86 tert-Butylbenzene	119	13.426	13.423	(0.964)	99741	5.00000	5.60	
	87 1,2,4-Trimethylbenzene	105	13.503	13.504	(0.969)	117018	5.00000	5.59	
	88 sec-Butylbenzene	105	13.625	13.626	(0.978)	145247	5.00000	5.77	
	89 P-Isopropyltoluene	119	13.793	13.793	(0.990)	120218	5.00000	5.51	
	90 1,3-Dichlorobenzene	146	13.850	13.848	(0.994)	63951	5.00000	5.60	
*	91 1,4-Dichlorobenzene-D4	152	13.934	13.934	(1.000)	414494	50.0000		
	92 1,4-Dichlorobenzene	146	13.947	13.951	(1.001)	65635	5.00000	5.53	
	93 1,2,3-Trimethylbenzene	105	13.992	13.989	(1.004)	118287	5.00000	5.36	
	94 N-Butylbenzene	91	14.265	14.266	(1.024)	114142	5.00000	5.44	
	95 1,2-Dichlorobenzene	146	14.416	14.420	(1.035)	57997	5.00000	5.36	
	96 1,2-Dibromo-3-Chloropropane	157	15.320	15.327	(1.099)	5060	5.00000	4.51	
	97 1,3,5-Trichlorobenzene	180	15.365	15.362	(1.103)	42495	5.00000	5.07	
	98 Hexachlorobutadiene	225	16.072	16.073	(1.153)	22717	5.00000	5.57	
	99 1,2,4-Trichlorobenzene	180	16.098	16.091	(1.155)	36677	5.00000	4.75	
	100 Naphthalene	128	16.464	16.462	(1.182)	66646	5.00000	4.03	
	101 1,2,3-Trichlorobenzene	180	16.667	16.671	(1.196)	35125	5.00000	4.82	
M	104 1,2-Dichloroethylene (total)	96				59317	5.00000	11.3	
M	105 Xylenes (total)	106				159049	15.0000	17.0	
M	106 Total Alkylbenzenes	100				884484	5.00000	39.2	

QC Flag Legend

T - Target compound detected outside RT window.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6551.D
Date : 21-SEP-2023 18:10
Client ID:
Sample Info: WG342876-2
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-s.i
Operator: JSS
Column diameter: 0.18
\\target_server\gg\chem\gcms-s.i\S092123.b\S6551.D
Y (x10^6)
Min
-Dichlorodifluoromethane (1.462)
-Chloromethane (1.710)+
-Bromomethane (2.002)
-Chloroethane (2.118)
-Trichlorofluoromethane (2.253)
-Diethyl Ether (2.562)
-1,1-Dichloroethene (2.761)+
-Iodomethane (2.912)
-Acrolein (3.228)+
-Methylene Chloride (3.424)+
-trans-1,2-Dichloroethene (3.572)+
-Methyl tert-butyl ether (3.774)
-Tertiary-butyl alcohol (3.916)
-Acetonitrile (4.076)
-Di-isopropyl ether (4.330)
-Chloroprene (4.456)+
-Ethyl tertiary-butyl ethe (4.928)+
-cis-1,2-Dichloroethene (5.469)+
-Cyclohexane (5.687)+
-Chloroform (5.854)
-Carbon Tetrachloride (6.031)+
-Dibromofluoromethane (6.134)
-1,1-Dichloropropene (6.333)+
-Benzene (6.636)
-Propionitrile (6.742)+
-Pentafluorobenzene (6.890)+
-1,2-Dichloroethane (6.993)
-Isobutyl Alcohol (7.150)
-Methylcyclohexane (7.520)+
-Dibromomethane (8.099)
-1,2-Dichloropropane (8.231)
-Bromodichloromethane (8.427)
-Methyl Methacrylate (8.597)+
-cis-1,3-dichloropropene (9.163)+
-Toluene-D8 (9.391)+
-Tetrachloroethene (9.957)+
-1,1,2-Trichloroethane (10.182)+
-Dibromochloromethane (10.382)
-1,3-Dichloropropane (10.497)
-1,2-Dibromoethane (10.645)
-2-Hexanone (10.976)
-1,1,1,2-Tetrachloroethane (11.372)
Chlorobenzene-D5 (11.266)+
-m+p-Xylenes (11.597)
-o-Xylene (12.002)+
-Isopropylbenzene (12.372)
-Bromobenzene (12.780)+
P-Bromofluorobenzene (12.674)
-1,1,2,2-Tetrachloroethane (13.002)+
-trans-1,4-Dichloro-2-Bute (13.192)+
-tert-Butylbenzene (13.427)
-1,2,4-Trimethylbenzene (13.504)
-sec-Butylbenzene (13.626)
-P-Isopropyltoluene (13.793)+
1,4-Dichlorobenzene-D4 (13.934)+
-N-Butylbenzene (14.269)
-1,2-Dichlorobenzene (14.417)
-1,2-Dibromo-3-Chloropropa (15.320)+
-Hexachlorobutadiene (16.073)+
-Naphthalene (16.462)
-1,2,3-Trichlorobenzene (16.745)

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6552.D
Report Date: 05-Oct-2023 10:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S092123.b\S6552.D
Lab Smp Id: WG342876-1
Inj Date : 21-SEP-2023 18:37
Operator : JSS   Inst ID: gcms-s.i
Smp Info : WG342876-1
Misc Info :
Comment   : SW846 5030C
Method   : \\target_server\gg\chem\gcms-s.i\S092123.b\S826(09)23.m
Meth Date : 22-Sep-2023 08:46 croy   Quant Type: ISTD
Cal Date : 21-SEP-2023 18:37   Cal File: S6552.D
Als bottle: 6   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.459	1.459	(0.212)	4412	1.00000	0.934(a)	
2	Chloromethane	50	1.636	1.639	(0.237)	5585	1.00000	1.01	
3	Vinyl chloride	62	1.706	1.710	(0.248)	5543	1.00000	1.00	
4	Bromomethane	94	2.002	1.999	(0.291)	4163	1.00000	1.28	
5	Chloroethane	64	2.121	2.118	(0.308)	3124	1.00000	0.945(a)	
6	Trichlorofluoromethane	101	2.253	2.253	(0.327)	8459	1.00000	0.900(a)	
7	Diethyl Ether	59	2.562	2.559	(0.372)	3817	1.00000	0.950(a)	
8	1,1-Dichloroethene	96	2.764	2.761	(0.401)	4523	1.00000	1.04	
9	Carbon Disulfide	76	2.790	2.790	(0.405)	8988	1.00000	0.963(a)	
10	Freon-113	151	2.819	2.810	(0.409)	3255	1.00000	0.946(a)	
11	Iodomethane	142	2.912	2.916	(0.423)	1281	1.00000	0.446(a)	
12	Acrolein	56	3.124	3.125	(0.454)	2048	5.00000	4.60(a)	
13	Allyl Chloride	41	3.282	3.292	(0.476)	4734	1.00000	0.799(a)	
14	Methylene Chloride	84	3.417	3.417	(0.496)	8866	1.00000	1.52(a)	
15	Acetone	43	3.478	3.472	(0.505)	7660	5.00000	5.75	
16	trans-1,2-Dichloroethene	96	3.619	3.620	(0.525)	4600	1.00000	0.930(a)	
17	Methyl Acetate	43	3.658	3.642	(0.531)	3565	1.00000	1.02	
18	Methyl tert-butyl ether	73	3.771	3.774	(0.547)	11375	1.00000	0.847(a)	
19	Acetonitrile	41	4.076	4.080	(0.592)	5694	10.0000	10.5(a)	
20	Tertiary-butyl alcohol	59	3.915	3.912	(0.568)	1660	5.00000	4.64(a)	
21	Di-isopropyl ether	45	4.336	4.333	(0.629)	11247	1.00000	0.836(a)	
22	Chloroprene	53	4.452	4.453	(0.646)	6415	1.00000	0.789(a)	
23	1,1-Dichloroethane	63	4.481	4.488	(0.650)	9262	1.00000	0.947(a)	
24	Acrylonitrile	52	4.565	4.559	(0.663)	6051	5.00000	4.29(a)	

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6552.D
Report Date: 05-Oct-2023 10:28

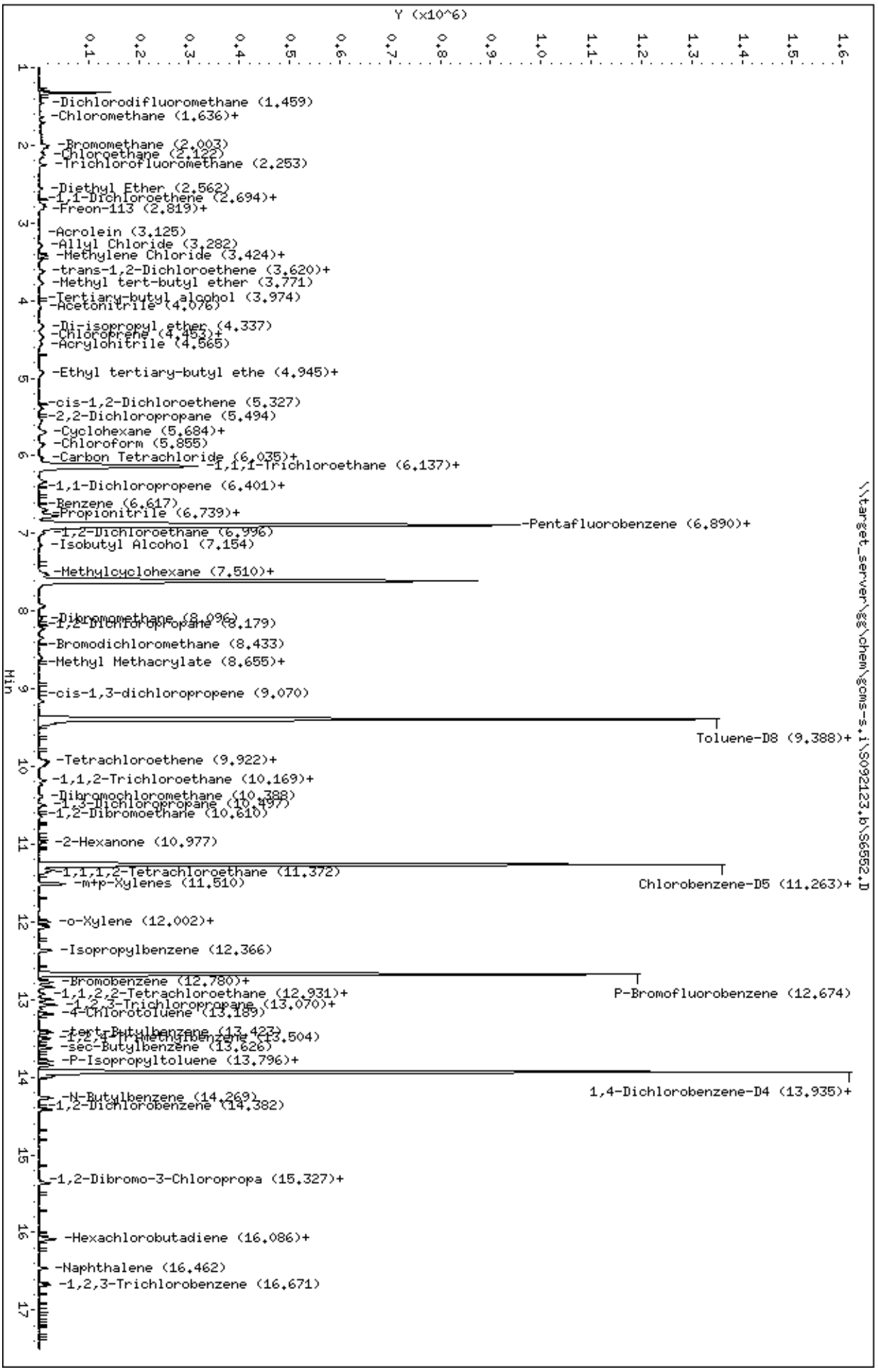
								AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25 Ethyl tertiary-butyl ether	59	4.944	4.925	(0.718)	10682	1.00000	0.802(a)	
	26 Vinyl Acetate	43	4.934	4.935	(0.648)	6842	1.00000	0.772(Ta)	
	27 cis-1,2-Dichloroethene	96	5.397	5.385	(0.783)	5038	1.00000	0.949(a)	
	28 2,2-Dichloropropane	77	5.549	5.552	(0.805)	6563	1.00000	0.908(a)	
	29 Cyclohexane	56	5.684	5.690	(0.825)	6544	1.00000	0.897(a)	
	30 Bromochloromethane	128	5.696	5.703	(0.827)	2085	1.00000	0.908(a)	
	31 Chloroform	83	5.854	5.854	(0.850)	10706	1.00000	1.01	
	32 Carbon Tetrachloride	117	6.034	6.031	(0.793)	7135	1.00000	0.902(a)	
	33 Tetrahydrofuran	42	6.086	6.063	(0.883)	4767	5.00000	4.12(a)	
	34 1,1,1-Trichloroethane	97	6.137	6.141	(0.891)	9215	1.00000	0.922(a)	
$	35 Dibromofluoromethane	113	6.131	6.134	(0.890)	271286	50.0000	49.9	
	36 1,1-Dichloropropene	75	6.333	6.337	(0.832)	7183	1.00000	0.920(a)	
	37 2-Butanone	43	6.340	6.324	(0.920)	8753	5.00000	4.72(a)	
	38 Benzene	78	6.700	6.697	(0.880)	19157	1.00000	0.926(a)	
	39 Propionitrile	54	6.738	6.735	(0.978)	6039	10.0000	9.40(a)	
	40 Methacrylonitrile	41	6.770	6.774	(0.983)	24786	10.0000	8.56(a)	
*	41 Pentafluorobenzene	168	6.889	6.887	(1.000)	488691	50.0000		
$	42 1,2-Dichloroethane-D4	65	6.896	6.896	(1.001)	419753	50.0000	52.0	
	43 Tertiary-amyl methyl ether	73	6.931	6.922	(1.006)	10277	1.00000	0.857(a)	
	44 1,2-Dichloroethane	62	6.995	6.996	(0.919)	10268	1.00000	1.09	
	45 Isobutyl Alcohol	43	7.153	7.141	(1.038)	3429	20.0000	21.0	
	46 Methylcyclohexane	83	7.510	7.510	(1.090)	6813	1.00000	0.842(a)	
	47 Trichloroethene	95	7.539	7.542	(0.991)	5785	1.00000	0.983(a)	
*	48 1,4-Difluorobenzene	114	7.610	7.613	(1.000)	848707	50.0000		
	49 Dibromomethane	93	8.092	8.092	(1.063)	3304	1.00000	0.954(a)	
	50 1,2-Dichloropropane	63	8.233	8.227	(1.082)	4977	1.00000	0.955(Ta)	
	51 Bromodichloromethane	83	8.346	8.343	(1.097)	6501	1.00000	0.833(a)	
	52 Methyl Methacrylate	41	8.597	8.597	(1.130)	2731	1.00000	0.702(a)	
	53 1,4-Dioxane	88	8.619	8.603	(1.133)	1083	20.0000	19.9(a)	
	55 cis-1,3-dichloropropene	75	9.163	9.160	(1.204)	6344	1.00000	0.778(a)	
$	56 Toluene-D8	98	9.388	9.388	(1.234)	997730	50.0000	50.2	
	57 Toluene	91	9.446	9.452	(1.241)	22277	1.00000	0.983(a)	
	58 Tetrachloroethene	164	9.921	9.922	(0.881)	3278	1.00000	0.777(a)	
	59 4-methyl-2-pentanone	43	9.947	9.954	(1.307)	13792	5.00000	3.42(a)	
	60 trans-1,3-Dichloropropene	75	9.995	9.992	(1.313)	6063	1.00000	0.780(a)	
	61 1,1,2-Trichloroethane	97	10.169	10.179	(1.336)	4479	1.00000	0.937(a)	
	62 Ethyl Methacrylate	69	10.240	10.234	(1.346)	3975	1.00000	0.652(a)	
	63 Dibromochloromethane	129	10.388	10.385	(0.922)	4862	1.00000	0.855(a)	
	64 1,3-Dichloropropane	76	10.497	10.497	(0.932)	8600	1.00000	0.925(a)	
	65 1,2-Dibromoethane	107	10.642	10.642	(1.398)	4440	1.00000	0.879(Ta)	
	66 2-Hexanone	43	10.976	10.970	(0.975)	9556	5.00000	3.40(a)	
*	67 Chlorobenzene-D5	117	11.262	11.263	(1.000)	784311	50.0000		
	68 Chlorobenzene	112	11.281	11.282	(1.002)	14460	1.00000	0.991(a)	
	69 Ethylbenzene	106	11.333	11.336	(1.006)	7104	1.00000	0.904(a)	
	70 m+p-Xylenes	106	11.510	11.513	(1.022)	16411	2.00000	1.70(a)	
	71 1,1,1,2-Tetrachloroethane	131	11.372	11.372	(1.010)	4749	1.00000	0.863(a)	
	72 o-Xylene	106	12.005	12.002	(1.066)	6492	1.00000	0.743(a)	
	73 Styrene	104	12.060	12.066	(1.071)	9571	1.00000	0.673(a)	
	74 Bromoform	173	12.072	12.073	(1.072)	2195	1.00000	0.636(a)	
	75 Isopropylbenzene	105	12.365	12.369	(0.887)	17948	1.00000	0.756(a)	
$	76 P-Bromofluorobenzene	95	12.674	12.671	(1.665)	402530	50.0000	48.9	
	77 Bromobenzene	156	12.780	12.777	(0.917)	5690	1.00000	0.972(a)	
	78 cis-1,4-Dichloro-2-Butene	53	12.764	12.767	(0.916)	1745	1.00000	0.876(a)	
	79 N-Propylbenzene	91	12.838	12.841	(0.921)	25072	1.00000	0.859(a)	

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6552.D
Report Date: 05-Oct-2023 10:28

							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	80 1,1,2,2-Tetrachloroethane	83	12.931	12.931	(0.928)	5714	1.00000	0.933(a)	
	81 2-Chlorotoluene	91	12.998	12.999	(0.933)	15090	1.00000	0.853(a)	
	82 1,2,3-Trichloropropane	75	13.069	13.063	(0.938)	5714	1.00000	0.984(a)	
	83 1,3,5-Trimethylbenzene	105	13.072	13.070	(0.938)	14448	1.00000	0.703(a)	
	84 trans-1,4-Dichloro-2-Butene	53	13.124	13.121	(0.942)	1378	1.00000	0.740(a)	
	85 4-Chlorotoluene	91	13.185	13.189	(0.946)	15567	1.00000	0.835(a)	
	86 tert-Butylbenzene	119	13.416	13.423	(0.963)	13277	1.00000	0.761(a)	
	87 1,2,4-Trimethylbenzene	105	13.503	13.504	(0.969)	14320	1.00000	0.698(a)	
	88 sec-Butylbenzene	105	13.629	13.626	(0.978)	17999	1.00000	0.730(a)	
	89 P-Isopropyltoluene	119	13.796	13.793	(0.990)	14390	1.00000	0.673(a)	
	90 1,3-Dichlorobenzene	146	13.851	13.848	(0.994)	10497	1.00000	0.938(a)	
*	91 1,4-Dichlorobenzene-D4	152	13.934	13.934	(1.000)	406017	50.0000		
	92 1,4-Dichlorobenzene	146	13.947	13.951	(1.001)	11782	1.00000	1.01	
	93 1,2,3-Trimethylbenzene	105	13.989	13.989	(1.004)	17959	1.00000	0.831(a)	
	94 N-Butylbenzene	91	14.269	14.266	(1.024)	14291	1.00000	0.695(a)	
	95 1,2-Dichlorobenzene	146	14.423	14.420	(1.035)	9821	1.00000	0.926(a)	
	96 1,2-Dibromo-3-Chloropropane	157	15.326	15.327	(1.100)	1037	1.00000	0.943(a)	
	97 1,3,5-Trichlorobenzene	180	15.365	15.362	(1.103)	7424	1.00000	0.905(a)	
	98 Hexachlorobutadiene	225	16.082	16.073	(1.154)	3591	1.00000	0.900(a)	
	99 1,2,4-Trichlorobenzene	180	16.088	16.091	(1.155)	6582	1.00000	0.870(a)	
	100 Naphthalene	128	16.461	16.462	(1.181)	12856	1.00000	0.793(a)	
	101 1,2,3-Trichlorobenzene	180	16.670	16.671	(1.196)	5927	1.00000	0.831(a)	
M	104 1,2-Dichloroethylene (total)	96				9638	1.00000	1.88(a)	
M	105 Xylenes (total)	106				22903	5.00000	2.44(a)	
M	106 Total Alkylbenzenes	100				113797	1.00000	5.12(a)	

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6552.D
Date : 21-SEP-2023 18:37
Client ID:
Sample Info: WG342876-1
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-s.i
Operator: JSS
Column diameter: 0.18
\\target_server\gg\chem\gcms-s.i\S092123.b\S6552.D
Y (x10^6)
Min
-Dichlorodifluoromethane (1.459)
-Chloromethane (1.636)+
-Bromomethane (2.003)
-Chloroethane (2.122)
-Trichlorofluoromethane (2.253)
-Diethyl Ether (2.562)
-1,1-Dichloroethene (2.694)+
-Freon-113 (2.819)+
-Acrolein (3.125)
-Allyl Chloride (3.282)
-Methylene Chloride (3.424)+
-trans-1,2-Dichloroethene (3.620)+
-Methyl tert-butyl ether (3.771)
-Tertiary-butyl alcohol (3.974)
-Acetonitrile (4.076)
-Di-isopropyl ether (4.337)
-Chloroprene (4.453)+
-Acrylonitrile (4.565)
-Ethyl tertiary-butyl ethe (4.945)+
-cis-1,2-Dichloroethene (5.327)
-2,2-Dichloropropane (5.494)
-Cyclohexane (5.684)+
-Chloroform (5.855)
-Carbon Tetrachloride (6.035)+
-1,1,1-Trichloroethane (6.137)+
-1,1-Dichloropropene (6.401)+
-Benzene (6.617)
-Propionitrile (6.739)+
-Pentafluorobenzene (6.890)+
-1,2-Dichloroethane (6.996)
-Isobutyl Alcohol (7.154)
-Methylcyclohexane (7.510)+
-Dibromomethane (8.096)
-1,2-Dichloropropane (8.179)
-Bromodichloromethane (8.433)
-Methyl Methacrylate (8.655)+
-cis-1,3-dichloropropene (9.070)
Toluene-D8 (9.388)+
-Tetrachloroethene (9.922)+
-1,1,2-Trichloroethane (10.169)+
-Dibromochloromethane (10.388)
-1,3-Dichloropropane (10.497)
-1,2-Dibromoethane (10.610)
-2-Hexanone (10.977)
-1,1,1,2-Tetrachloroethane (11.372)
-m+p-Xylenes (11.510)
Chlorobenzene-D5 (11.263)+
-o-Xylene (12.002)+
-Isopropylbenzene (12.366)
-Bromobenzene (12.780)+
-1,1,2,2-Tetrachloroethane (12.931)+
-1,2,3-Trichloropropane (13.070)+
-4-Chlorotoluene (13.189)
-tert-Butylbenzene (13.423)
-1,2,4-Trimethylbenzene (13.504)
-sec-Butylbenzene (13.626)
-P-Isopropyltoluene (13.796)+
P-Bromofluorobenzene (12.674)
-N-Butylbenzene (14.269)
-1,2-Dichlorobenzene (14.382)
1,4-Dichlorobenzene-D4 (13.935)+
-1,2-Dibromo-3-Chloropropa (15.327)+
-Hexachlorobutadiene (16.086)+
-Naphthalene (16.462)
-1,2,3-Trichlorobenzene (16.671)

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6553.D
Report Date: 05-Oct-2023 10:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S092123.b\S6553.D
Lab Smp Id: WG342876-6
Inj Date : 21-SEP-2023 19:04
Operator : JSS   Inst ID: gcms-s.i
Smp Info : WG342876-6
Misc Info :
Comment   : SW846 5030C
Method   : \\target_server\gg\chem\gcms-s.i\S092123.b\S826(09)23.m
Meth Date : 22-Sep-2023 08:46 croy   Quant Type: ISTD
Cal Date : 21-SEP-2023 19:04   Cal File: S6553.D
Als bottle: 7   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.459	1.459	(0.212)	739505	150.000	154(A)	
2	Chloromethane	50	1.636	1.639	(0.237)	836601	150.000	148	
3	Vinyl chloride	62	1.706	1.710	(0.248)	856129	150.000	152(A)	
4	Bromomethane	94	1.999	1.999	(0.290)	495778	150.000	150(A)	
5	Chloroethane	64	2.108	2.118	(0.306)	485122	150.000	144	
6	Trichlorofluoromethane	101	2.253	2.253	(0.327)	1496496	150.000	156(A)	
7	Diethyl Ether	59	2.558	2.559	(0.371)	630979	150.000	154(A)	
8	1,1-Dichloroethene	96	2.761	2.761	(0.401)	666533	150.000	150(A)	
9	Carbon Disulfide	76	2.790	2.790	(0.405)	1451302	150.000	152(A)	
10	Freon-113	151	2.812	2.810	(0.408)	544629	150.000	155(A)	
11	Iodomethane	142	2.909	2.916	(0.422)	557906	150.000	190(A)	
12	Acrolein	56	3.127	3.125	(0.454)	334251	750.000	737	
13	Allyl Chloride	41	3.295	3.292	(0.478)	994880	150.000	165(A)	
14	Methylene Chloride	84	3.423	3.417	(0.497)	772217	150.000	130	
15	Acetone	43	3.475	3.472	(0.504)	996072	750.000	734	
16	trans-1,2-Dichloroethene	96	3.623	3.620	(0.526)	750657	150.000	149	
17	Methyl Acetate	43	3.642	3.642	(0.529)	536727	150.000	149	
18	Methyl tert-butyl ether	73	3.767	3.774	(0.547)	2212343	150.000	162(A)	
19	Acetonitrile	41	4.082	4.080	(0.593)	756185	1500.00	1370	
20	Tertiary-butyl alcohol	59	3.918	3.912	(0.569)	254236	750.000	697	
21	Di-isopropyl ether	45	4.330	4.333	(0.629)	2220582	150.000	162(A)	
22	Chloroprene	53	4.452	4.453	(0.646)	1372231	150.000	165(A)	
23	1,1-Dichloroethane	63	4.484	4.488	(0.651)	1490388	150.000	149	
24	Acrylonitrile	52	4.561	4.559	(0.662)	1059219	750.000	736	

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6553.D
Report Date: 05-Oct-2023 10:28

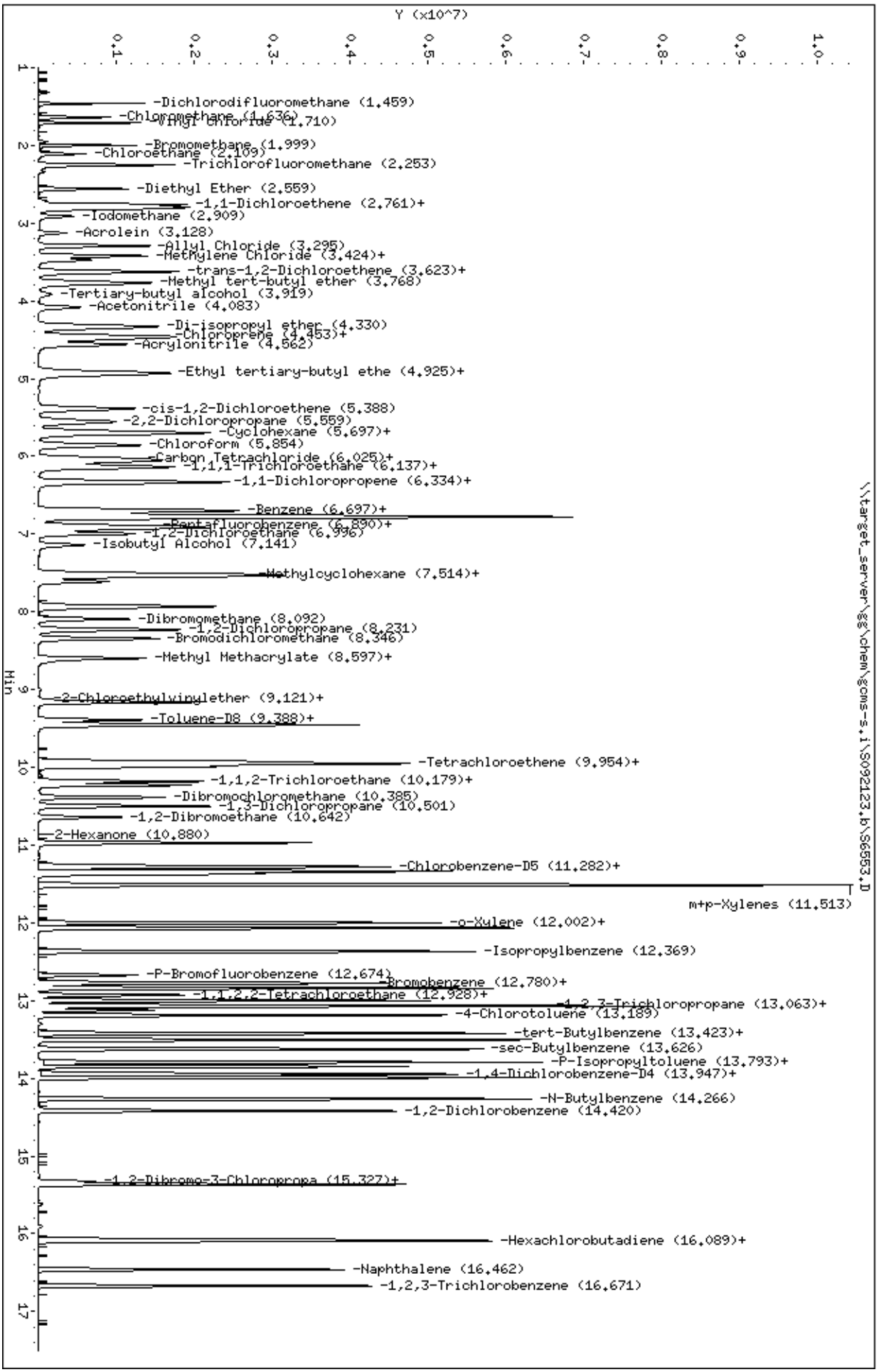
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25 Ethyl tertiary-butyl ether	59	4.925	4.925	(0.715)	2236640	150.000	165(A)	
	26 Vinyl Acetate	43	4.934	4.935	(0.648)	1252195	150.000	136	
	27 cis-1,2-Dichloroethene	96	5.388	5.385	(0.782)	823649	150.000	152(A)	
	28 2,2-Dichloropropane	77	5.558	5.552	(0.807)	1145559	150.000	156(A)	
	29 Cyclohexane	56	5.696	5.690	(0.827)	1192481	150.000	160(A)	
	30 Bromochloromethane	128	5.706	5.703	(0.828)	332966	150.000	142	
	31 Chloroform	83	5.854	5.854	(0.850)	1593143	150.000	148	
	32 Carbon Tetrachloride	117	6.024	6.031	(0.792)	1299364	150.000	159(A)	
	33 Tetrahydrofuran	42	6.060	6.063	(0.880)	911748	750.000	771(A)	
	34 1,1,1-Trichloroethane	97	6.137	6.141	(0.891)	1562101	150.000	153(A)	
$	35 Dibromofluoromethane	113	6.134	6.134	(0.890)	282978	50.0000	51.1	
	36 1,1-Dichloropropene	75	6.333	6.337	(0.832)	1225466	150.000	151(A)	
	37 2-Butanone	43	6.323	6.324	(0.918)	1414363	750.000	748	
	38 Benzene	78	6.696	6.697	(0.880)	3121201	150.000	146	
	39 Propionitrile	54	6.741	6.735	(0.979)	935253	1500.00	1430	
	40 Methacrylonitrile	41	6.777	6.774	(0.984)	4295169	1500.00	1460	
*	41 Pentafluorobenzene	168	6.889	6.887	(1.000)	498065	50.0000		
$	42 1,2-Dichloroethane-D4	65	6.896	6.896	(1.001)	420921	50.0000	51.2	
	43 Tertiary-amyl methyl ether	73	6.921	6.922	(1.005)	2006534	150.000	164(A)	
	44 1,2-Dichloroethane	62	6.995	6.996	(0.919)	1419221	150.000	145	
	45 Isobutyl Alcohol	43	7.140	7.141	(1.036)	470884	3000.00	2850	
	46 Methylcyclohexane	83	7.513	7.510	(1.091)	1358706	150.000	165(A)	
	47 Trichloroethene	95	7.539	7.542	(0.991)	939195	150.000	154(A)	
*	48 1,4-Difluorobenzene	114	7.610	7.613	(1.000)	879461	50.0000		
	49 Dibromomethane	93	8.092	8.092	(1.063)	544603	150.000	152(A)	
	50 1,2-Dichloropropane	63	8.230	8.227	(1.082)	811102	150.000	150(A)	
	51 Bromodichloromethane	83	8.346	8.343	(1.097)	1278018	150.000	158(A)	
	52 Methyl Methacrylate	41	8.597	8.597	(1.130)	687276	150.000	170(A)	
	53 1,4-Dioxane	88	8.606	8.603	(1.131)	138262	3000.00	2450	
	54 2-Chloroethylvinylether	63	9.121	9.115	(1.199)	31979	150.000	143	
	55 cis-1,3-dichloropropene	75	9.159	9.160	(1.204)	1399939	150.000	166(A)	
$	56 Toluene-D8	98	9.388	9.388	(1.234)	1036988	50.0000	50.3	
	57 Toluene	91	9.452	9.452	(1.242)	3392206	150.000	144	
	58 Tetrachloroethene	164	9.921	9.922	(0.881)	671555	150.000	153(A)	
	59 4-methyl-2-pentanone	43	9.954	9.954	(1.308)	3224268	750.000	772(A)	
	60 trans-1,3-Dichloropropene	75	9.992	9.992	(1.313)	1326589	150.000	165(A)	
	61 1,1,2-Trichloroethane	97	10.179	10.179	(1.338)	740394	150.000	150	
	62 Ethyl Methacrylate	69	10.230	10.234	(1.344)	1088507	150.000	172(A)	
	63 Dibromochloromethane	129	10.384	10.385	(0.922)	967663	150.000	164(A)	
	64 1,3-Dichloropropane	76	10.500	10.497	(0.932)	1453153	150.000	150(A)	
	65 1,2-Dibromoethane	107	10.642	10.642	(1.398)	807517	150.000	154(A)	
	66 2-Hexanone	43	10.970	10.970	(0.974)	2292618	750.000	782(A)	
*	67 Chlorobenzene-D5	117	11.265	11.263	(1.000)	816352	50.0000		
	68 Chlorobenzene	112	11.281	11.282	(1.001)	2224481	150.000	146	
	69 Ethylbenzene	106	11.336	11.336	(1.006)	1233960	150.000	151(A)	
	70 m+p-Xylenes	106	11.513	11.513	(1.022)	3062826	300.000	304(A)	
	71 1,1,1,2-Tetrachloroethane	131	11.371	11.372	(1.009)	902460	150.000	158(A)	
	72 o-Xylene	106	12.002	12.002	(1.065)	1445849	150.000	159(A)	
	73 Styrene	104	12.063	12.066	(1.071)	2455103	150.000	166(A)	
	74 Bromoform	173	12.072	12.073	(1.072)	613511	150.000	171(A)	
	75 Isopropylbenzene	105	12.371	12.369	(0.888)	3957301	150.000	150(A)	
$	76 P-Bromofluorobenzene	95	12.674	12.671	(1.665)	435621	50.0000	51.1	
	77 Bromobenzene	156	12.780	12.777	(0.917)	953103	150.000	147	
	78 cis-1,4-Dichloro-2-Butene	53	12.764	12.767	(0.916)	344123	150.000	156(A)	

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6553.D
Report Date: 05-Oct-2023 10:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	79 N-Propylbenzene	91	12.841	12.841	(0.922)	4716819	150.000	146	
	80 1,1,2,2-Tetrachloroethane	83	12.928	12.931	(0.928)	938078	150.000	138	
	81 2-Chlorotoluene	91	12.998	12.999	(0.933)	2908256	150.000	148	
	82 1,2,3-Trichloropropane	75	13.063	13.063	(0.937)	917154	150.000	142	
	83 1,3,5-Trimethylbenzene	105	13.072	13.070	(0.938)	3523262	150.000	155(A)	
	84 trans-1,4-Dichloro-2-Butene	53	13.124	13.121	(0.942)	328221	150.000	159(A)	
	85 4-Chlorotoluene	91	13.188	13.189	(0.946)	3065455	150.000	148	
	86 tert-Butylbenzene	119	13.423	13.423	(0.963)	2964110	150.000	153(A)	
	87 1,2,4-Trimethylbenzene	105	13.503	13.504	(0.969)	3501067	150.000	154(A)	
	88 sec-Butylbenzene	105	13.625	13.626	(0.978)	4144514	150.000	152(A)	
	89 P-Isopropyltoluene	119	13.793	13.793	(0.990)	3750002	150.000	158(A)	
	90 1,3-Dichlorobenzene	146	13.847	13.848	(0.994)	1810575	150.000	146	
*	91 1,4-Dichlorobenzene-D4	152	13.934	13.934	(1.000)	450218	50.0000		
	92 1,4-Dichlorobenzene	146	13.950	13.951	(1.001)	1864125	150.000	144	
	93 1,2,3-Trimethylbenzene	105	13.989	13.989	(1.004)	3587485	150.000	150	
	94 N-Butylbenzene	91	14.265	14.266	(1.024)	3572741	150.000	157(A)	
	95 1,2-Dichlorobenzene	146	14.420	14.420	(1.035)	1757139	150.000	149	
	96 1,2-Dibromo-3-Chloropropane	157	15.326	15.327	(1.100)	192670	150.000	158(A)	
	97 1,3,5-Trichlorobenzene	180	15.365	15.362	(1.103)	1416607	150.000	156(A)	
	98 Hexachlorobutadiene	225	16.075	16.073	(1.154)	678459	150.000	153(A)	
	99 1,2,4-Trichlorobenzene	180	16.092	16.091	(1.155)	1355432	150.000	162(A)	
	100 Naphthalene	128	16.461	16.462	(1.181)	2918948	150.000	162(A)	
	101 1,2,3-Trichlorobenzene	180	16.670	16.671	(1.196)	1232238	150.000	156(A)	
M	104 1,2-Dichloroethylene (total)	96				1574306	150.000	301	
M	105 Xylenes (total)	106				4508675	150.000	464	
M	106 Total Alkylbenzenes	100				26172515	150.000	1070	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.


Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6553.D
Date : 21-SEP-2023 19:04
Client ID:
Sample Info: WG342876-6
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-s.i
Operator: JSS
Column diameter: 0.18
\\target_server\gg\chem\gcms-s.i\S092123.b\S6553.D
Y (x10^7)
Min
-Dichlorodifluoromethane (1.459)
-Chloromethane (1.636)
-Vinyl Chloride (1.710)
-Bromomethane (1.999)
-Chloroethane (2.109)
-Trichlorofluoromethane (2.253)
-Diethyl Ether (2.559)
-1,1-Dichloroethene (2.761)+
-Iodomethane (2.909)
-Acrolein (3.128)
-Allyl Chloride (3.295)
-MetMylene Chloride (3.424)+
-trans-1,2-Dichloroethene (3.623)+
-Methyl tert-butyl ether (3.768)
-Tertiary-butyl alcohol (3.919)
-Acetonitrile (4.083)
-Di-isopropyl ether (4.330)
-Chloroprene (4.453)+
-Acrylonitrile (4.562)
-Ethyl tertiary-butyl ethe (4.925)+
-cis-1,2-Dichloroethene (5.388)
-2,2-Dichloropropane (5.559)
-Cyclohexane (5.697)+
-Chloroform (5.854)
-Carbon Tetrachloride (6.025)+
-1,1,1-Trichloroethane (6.137)+
-1,1-Dichloropropene (6.334)+
-Benzene (6.697)+
-Pentafluorobenzene (6.890)+
-1,2-Dichloroethane (6.996)
-Isobutyl Alcohol (7.141)
-Methylcyclohexane (7.514)+
-Dibromomethane (8.092)
-1,2-Dichloropropane (8.231)
-Bromodichloromethane (8.346)
-Methyl Methacrylate (8.597)+
-2-Chloroethylvinylether (9.121)+
-Toluene-D8 (9.388)+
-Tetrachloroethene (9.954)+
-1,1,2-Trichloroethane (10.179)+
-Dibromochloromethane (10.385)
-1,3-Dichloropropane (10.501)
-1,2-Dibromoethane (10.642)
-2-Hexanone (10.880)
-Chlorobenzene-D5 (11.282)+
m+p-Xylenes (11.513)
-o-Xylene (12.002)+
-Isopropylbenzene (12.369)
-P-Bromofluorobenzene (12.674)
-Bromobenzene (12.780)+
-1,1,2,2-Tetrachloroethane (12.928)+
-1,2,3-Trichloropropane (13.063)+
-4-Chlorotoluene (13.189)
-tert-Butylbenzene (13.423)+
-sec-Butylbenzene (13.626)
-P-Isopropyltoluene (13.793)+
-1,4-Dichlorobenzene-D4 (13.947)+
-N-Butylbenzene (14.266)
-1,2-Dichlorobenzene (14.420)
-1,2-Dibromo-3-Chloropropa (15.327)+
-Hexachlorobutadiene (16.089)+
-Naphthalene (16.462)
-1,2,3-Trichlorobenzene (16.671)

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6554.D
Report Date: 05-Oct-2023 10:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S092123.b\S6554.D
Lab Smp Id: WG342876-5
Inj Date : 21-SEP-2023 19:31
Operator : JSS   Inst ID: gcms-s.i
Smp Info : WG342876-5
Misc Info :
Comment   : SW846 5030C
Method   : \\target_server\gg\chem\gcms-s.i\S092123.b\S826(09)23.m
Meth Date : 22-Sep-2023 08:46 croy   Quant Type: ISTD
Cal Date : 21-SEP-2023 19:31   Cal File: S6554.D
Als bottle: 8   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.459	1.459	(0.212)	488120	100.000	93.5	
2	Chloromethane	50	1.636	1.639	(0.238)	569811	100.000	92.9	
3	Vinyl chloride	62	1.706	1.710	(0.248)	564066	100.000	92.5	
4	Bromomethane	94	1.999	1.999	(0.290)	334950	100.000	93.5	
5	Chloroethane	64	2.108	2.118	(0.306)	323457	100.000	88.5	
6	Trichlorofluoromethane	101	2.250	2.253	(0.327)	998609	100.000	96.2	
7	Diethyl Ether	59	2.555	2.559	(0.371)	456010	100.000	102	
8	1,1-Dichloroethene	96	2.761	2.761	(0.401)	462213	100.000	96.2	
9	Carbon Disulfide	76	2.787	2.790	(0.405)	999017	100.000	96.8	
10	Freon-113	151	2.806	2.810	(0.408)	379174	100.000	99.8	
11	Iodomethane	142	2.912	2.916	(0.423)	378166	100.000	119	
12	Acrolein	56	3.124	3.125	(0.454)	259896	500.000	529	
13	Allyl Chloride	41	3.291	3.292	(0.478)	706201	100.000	108	
14	Methylene Chloride	84	3.420	3.417	(0.497)	540114	100.000	83.8	
15	Acetone	43	3.472	3.472	(0.504)	664291	500.000	452	
16	trans-1,2-Dichloroethene	96	3.619	3.620	(0.526)	527782	100.000	96.5	
17	Methyl Acetate	43	3.642	3.642	(0.529)	391440	100.000	100	
18	Methyl tert-butyl ether	73	3.771	3.774	(0.548)	1570936	100.000	106	
19	Acetonitrile	41	4.079	4.080	(0.592)	594566	1000.00	995	
20	Tertiary-butyl alcohol	59	3.909	3.912	(0.568)	226084	500.000	572	
21	Di-isopropyl ether	45	4.333	4.333	(0.629)	1577614	100.000	106	
22	Chloroprene	53	4.455	4.453	(0.647)	925261	100.000	103	
23	1,1-Dichloroethane	63	4.484	4.488	(0.651)	1031904	100.000	95.4	
24	Acrylonitrile	52	4.555	4.559	(0.661)	793968	500.000	509	

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6554.D
Report Date: 05-Oct-2023 10:28

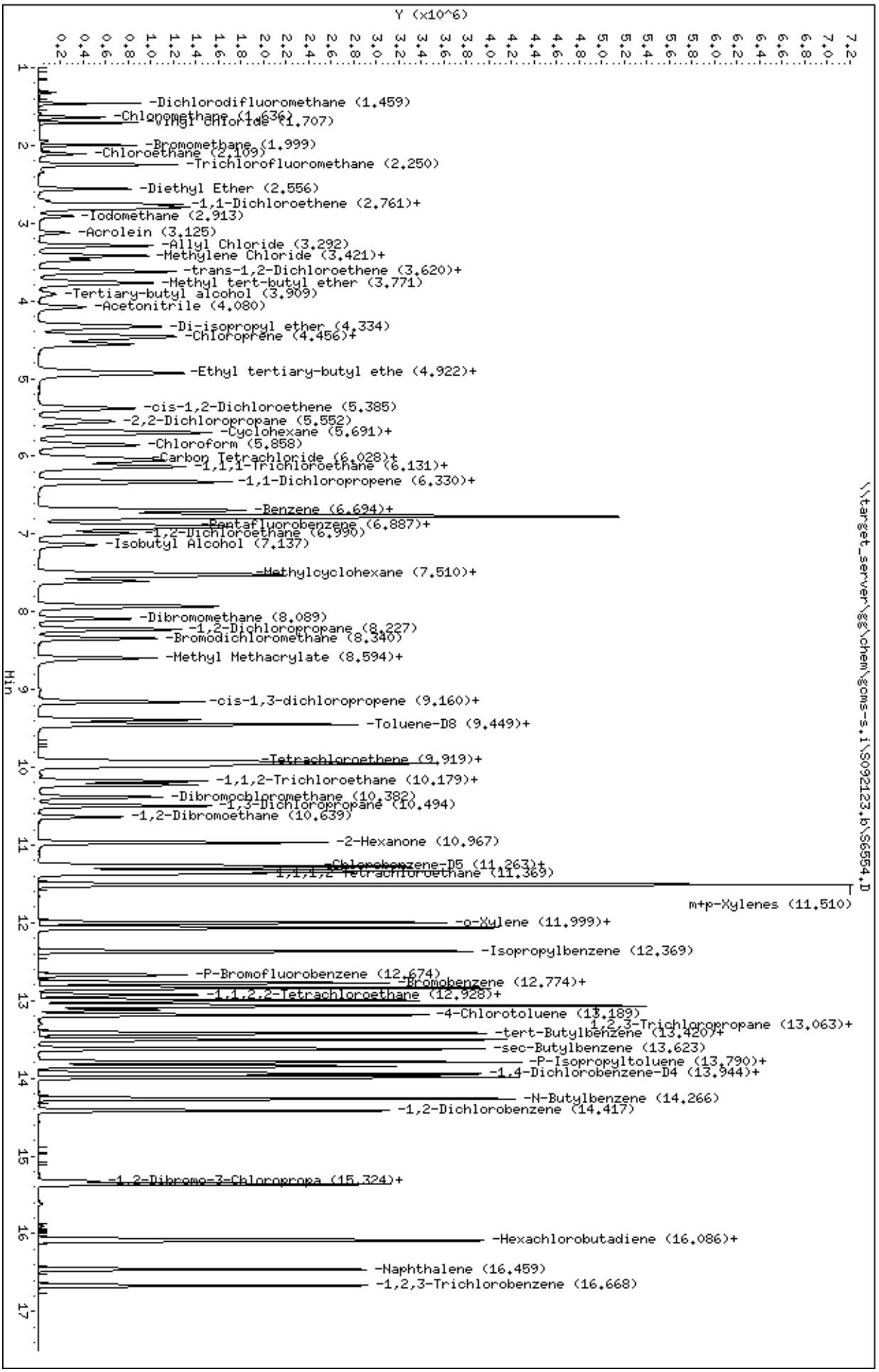
							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 Ethyl tertiary-butyl ether	59	4.922	4.925	(0.715)	1607970	100.000	109	
	26 Vinyl Acetate	43	4.931	4.935	(0.648)	1107889	100.000	113	
	27 cis-1,2-Dichloroethene	96	5.385	5.385	(0.782)	582232	100.000	99.2	
	28 2,2-Dichloropropane	77	5.552	5.552	(0.806)	776807	100.000	97.3	
	29 Cyclohexane	56	5.690	5.690	(0.826)	823188	100.000	102	
	30 Bromochloromethane	128	5.697	5.703	(0.827)	240918	100.000	94.9	
	31 Chloroform	83	5.857	5.854	(0.851)	1104038	100.000	94.5	
	32 Carbon Tetrachloride	117	6.028	6.031	(0.792)	874289	100.000	100	
	33 Tetrahydrofuran	42	6.063	6.063	(0.880)	695872	500.000	542	
	34 1,1,1-Trichloroethane	97	6.131	6.141	(0.890)	1061130	100.000	96.2	
$	35 Dibromofluoromethane	113	6.131	6.134	(0.890)	302625	50.0000	50.4	
	36 1,1-Dichloropropene	75	6.330	6.337	(0.832)	838195	100.000	96.9	
	37 2-Butanone	43	6.324	6.324	(0.918)	1038400	500.000	507	
	38 Benzene	78	6.693	6.697	(0.880)	2208436	100.000	96.4	
	39 Propionitrile	54	6.735	6.735	(0.978)	726680	1000.00	1020	
	40 Methacrylonitrile	41	6.774	6.774	(0.984)	3237928	1000.00	1010	
*	41 Pentafluorobenzene	168	6.886	6.887	(1.000)	539890	50.0000		
$	42 1,2-Dichloroethane-D4	65	6.893	6.896	(1.001)	433132	50.0000	48.6	
	43 Tertiary-amyl methyl ether	73	6.915	6.922	(1.004)	1430304	100.000	108	
	44 1,2-Dichloroethane	62	6.989	6.996	(0.919)	979962	100.000	93.7	
	45 Isobutyl Alcohol	43	7.137	7.141	(1.036)	419602	2000.00	2340	
	46 Methylcyclohexane	83	7.510	7.510	(1.091)	941757	100.000	105	
	47 Trichloroethene	95	7.539	7.542	(0.991)	610813	100.000	93.4	
*	48 1,4-Difluorobenzene	114	7.606	7.613	(1.000)	939604	50.0000		
	49 Dibromomethane	93	8.089	8.092	(1.063)	379700	100.000	99.0	
	50 1,2-Dichloropropane	63	8.227	8.227	(1.082)	567880	100.000	98.4	
	51 Bromodichloromethane	83	8.340	8.343	(1.096)	870220	100.000	101	
	52 Methyl Methacrylate	41	8.594	8.597	(1.130)	498967	100.000	116	
	53 1,4-Dioxane	88	8.600	8.603	(1.131)	134179	2000.00	2220	
	54 2-Chloroethylvinylether	63	9.118	9.115	(1.199)	23217	100.000	97.5(H)	
	55 cis-1,3-dichloropropene	75	9.159	9.160	(1.204)	965237	100.000	107	
$	56 Toluene-D8	98	9.388	9.388	(1.234)	1098657	50.0000	49.9	
	57 Toluene	91	9.449	9.452	(1.242)	2367810	100.000	94.4	
	58 Tetrachloroethene	164	9.918	9.922	(0.881)	465942	100.000	100	
	59 4-methyl-2-pentanone	43	9.950	9.954	(1.308)	2424547	500.000	543	
	60 trans-1,3-Dichloropropene	75	9.989	9.992	(1.313)	903324	100.000	105	
	61 1,1,2-Trichloroethane	97	10.179	10.179	(1.338)	526603	100.000	99.5	
	62 Ethyl Methacrylate	69	10.227	10.234	(1.344)	796813	100.000	118	
	63 Dibromochloromethane	129	10.381	10.385	(0.922)	664001	100.000	106	
	64 1,3-Dichloropropane	76	10.494	10.497	(0.932)	1027878	100.000	100	
	65 1,2-Dibromoethane	107	10.638	10.642	(1.399)	570515	100.000	102	
	66 2-Hexanone	43	10.966	10.970	(0.974)	1696203	500.000	546	
*	67 Chlorobenzene-D5	117	11.262	11.263	(1.000)	865785	50.0000		
	68 Chlorobenzene	112	11.282	11.282	(1.002)	1538290	100.000	95.5	
	69 Ethylbenzene	106	11.333	11.336	(1.006)	843987	100.000	97.3	
	70 m+p-Xylenes	106	11.510	11.513	(1.022)	2113109	200.000	198	
	71 1,1,1,2-Tetrachloroethane	131	11.368	11.372	(1.009)	622546	100.000	102	
	72 o-Xylene	106	11.999	12.002	(1.065)	998564	100.000	104	
	73 Styrene	104	12.063	12.066	(1.071)	1694742	100.000	108	
	74 Bromoform	173	12.072	12.073	(1.072)	426341	100.000	112	
	75 Isopropylbenzene	105	12.368	12.369	(0.888)	2728052	100.000	99.5	
$	76 P-Bromofluorobenzene	95	12.671	12.671	(1.666)	454464	50.0000	49.9	
	77 Bromobenzene	156	12.777	12.777	(0.917)	659890	100.000	97.6	
	78 cis-1,4-Dichloro-2-Butene	53	12.764	12.767	(0.916)	244124	100.000	106	

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6554.D
Report Date: 05-Oct-2023 10:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	79 N-Propylbenzene	91	12.838	12.841	(0.922)	3255314	100.000	96.6	
	80 1,1,2,2-Tetrachloroethane	83	12.928	12.931	(0.928)	709275	100.000	100	
	81 2-Chlorotoluene	91	12.995	12.999	(0.933)	2008364	100.000	98.3	
	82 1,2,3-Trichloropropane	75	13.063	13.063	(0.938)	645597	100.000	96.3	
	83 1,3,5-Trimethylbenzene	105	13.069	13.070	(0.938)	2408579	100.000	102	
	84 trans-1,4-Dichloro-2-Butene	53	13.121	13.121	(0.942)	236365	100.000	110	
	85 4-Chlorotoluene	91	13.188	13.189	(0.947)	2115085	100.000	98.2	
	86 tert-Butylbenzene	119	13.420	13.423	(0.963)	2043426	100.000	101	
	87 1,2,4-Trimethylbenzene	105	13.500	13.504	(0.969)	2401541	100.000	101	
	88 sec-Butylbenzene	105	13.622	13.626	(0.978)	2845043	100.000	100	
	89 P-Isopropyltoluene	119	13.789	13.793	(0.990)	2560860	100.000	104	
	90 1,3-Dichlorobenzene	146	13.844	13.848	(0.994)	1244714	100.000	96.3	
*	91 1,4-Dichlorobenzene-D4	152	13.931	13.934	(1.000)	468815	50.0000		
	92 1,4-Dichlorobenzene	146	13.950	13.951	(1.001)	1281038	100.000	95.4	
	93 1,2,3-Trimethylbenzene	105	13.989	13.989	(1.004)	2509588	100.000	100	
	94 N-Butylbenzene	91	14.265	14.266	(1.024)	2435881	100.000	103	
	95 1,2-Dichlorobenzene	146	14.416	14.420	(1.035)	1207601	100.000	98.6	
	96 1,2-Dibromo-3-Chloropropane	157	15.323	15.327	(1.100)	139891	100.000	110	
	97 1,3,5-Trichlorobenzene	180	15.362	15.362	(1.103)	969643	100.000	102	
	98 Hexachlorobutadiene	225	16.072	16.073	(1.154)	459342	100.000	99.6	
	99 1,2,4-Trichlorobenzene	180	16.092	16.091	(1.155)	928924	100.000	106	
	100 Naphthalene	128	16.458	16.462	(1.181)	2186122	100.000	117	
	101 1,2,3-Trichlorobenzene	180	16.667	16.671	(1.196)	869647	100.000	106	
M	104 1,2-Dichloroethylene (total)	96				1110014	100.000	196	
M	105 Xylenes (total)	106				3111673	100.000	302	
M	106 Total Alkylbenzenes	100				17950644	100.000	707	

QC Flag Legend

H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6554.D
Date : 21-SEP-2023 19:31
Client ID:
Sample Info: WG342876-5
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-s.i
Operator: JSS
Column diameter: 0.18
\\target_server\gg\chem\gcms-s.i\S092123.b\S6554.D
Y (x10^6)
Min
-Dichlorodifluoromethane (1.459)
-Chloromethane (1.636)
-Vinyl Chloride (1.707)
-Bromomethane (1.999)
-Chloroethane (2.109)
-Trichlorofluoromethane (2.250)
-Diethyl Ether (2.556)
-1,1-Dichloroethene (2.761)+
-Iodomethane (2.913)
-Acrolein (3.125)
-Allyl Chloride (3.292)
-Methylene Chloride (3.421)+
-trans-1,2-Dichloroethene (3.620)+
-Methyl tert-butyl ether (3.771)
-Tertiary-butyl alcohol (3.909)
-Acetonitrile (4.080)
-Di-isopropyl ether (4.334)
-Chloroprene (4.456)+
-Ethyl tertiary-butyl ethe (4.922)+
-cis-1,2-Dichloroethene (5.385)
-2,2-Dichloropropane (5.552)
-Cyclohexane (5.691)+
-Chloroform (5.858)
-Carbon Tetrachloride (6.028)+
-1,1,1-Trichloroethane (6.131)+
-1,1-Dichloropropene (6.330)+
-Benzene (6.694)+
-Pentafluorobenzene (6.887)+
-1,2-Dichloroethane (6.990)
-Isobutyl Alcohol (7.137)
-Methylcyclohexane (7.510)+
-Dibromomethane (8.089)
-1,2-Dichloropropane (8.227)
-Bromodichloromethane (8.340)
-Methyl Methacrylate (8.594)+
-cis-1,3-dichloropropene (9.160)+
-Toluene-D8 (9.449)+
-Tetrachloroethene (9.919)+
-1,1,2-Trichloroethane (10.179)+
-Dibromochloromethane (10.382)
-1,3-Dichloropropane (10.494)
-1,2-Dibromoethane (10.639)
-2-Hexanone (10.967)
-Chlorobenzene-D5 (11.263)+
1,1,1,2-Tetrachloroethane (11.369)
m+p-Xylenes (11.510)
-o-Xylene (11.999)+
-Isopropylbenzene (12.369)
-P-Bromofluorobenzene (12.674)
-Bromobenzene (12.774)+
-1,1,2,2-Tetrachloroethane (12.928)+
-4-Chlorotoluene (13.189)
1,2,3-Trichloropropane (13.063)+
-tert-Butylbenzene (13.420)+
-sec-Butylbenzene (13.623)
-P-Isopropyltoluene (13.790)+
-1,4-Dichlorobenzene-D4 (13.944)+
-N-Butylbenzene (14.266)
-1,2-Dichlorobenzene (14.417)
-1,2-Dibromo-3-Chloropropa (15.324)+
-Hexachlorobutadiene (16.086)+
-Naphthalene (16.459)
-1,2,3-Trichlorobenzene (16.668)

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6555.D
Report Date: 05-Oct-2023 10:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S092123.b\S6555.D
Lab Smp Id: WG342876-7
Inj Date : 21-SEP-2023 19:58
Operator : JSS   Inst ID: gcms-s.i
Smp Info : WG342876-7
Misc Info :
Comment   : SW846 5030C
Method   : \\target_server\gg\chem\gcms-s.i\S092123.b\S826(09)23.m
Meth Date : 22-Sep-2023 08:46 croy   Quant Type: ISTD
Cal Date : 21-SEP-2023 19:58   Cal File: S6555.D
Als bottle: 9   Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.459	1.459	(0.212)	365529	75.0000	69.1	
2	Chloromethane	50	1.635	1.639	(0.238)	435245	75.0000	70.1	
3	Vinyl chloride	62	1.706	1.710	(0.248)	416737	75.0000	67.5	
4	Bromomethane	94	1.996	1.999	(0.290)	247354	75.0000	68.2	
5	Chloroethane	64	2.111	2.118	(0.307)	252867	75.0000	68.4	
6	Trichlorofluoromethane	101	2.246	2.253	(0.326)	742536	75.0000	70.6	
7	Diethyl Ether	59	2.555	2.559	(0.371)	350752	75.0000	77.9	
8	1,1-Dichloroethene	96	2.758	2.761	(0.401)	352544	75.0000	72.5	
9	Carbon Disulfide	76	2.787	2.790	(0.405)	747366	75.0000	71.5	
10	Freon-113	151	2.806	2.810	(0.408)	287142	75.0000	74.6	
11	Iodomethane	142	2.909	2.916	(0.422)	282905	75.0000	87.8	
12	Acrolein	56	3.121	3.125	(0.453)	204975	375.000	412	
13	Allyl Chloride	41	3.288	3.292	(0.478)	503961	75.0000	76.0	
14	Methylene Chloride	84	3.417	3.417	(0.496)	422896	75.0000	64.8	
15	Acetone	43	3.468	3.472	(0.504)	480656	375.000	323	
16	trans-1,2-Dichloroethene	96	3.619	3.620	(0.526)	399037	75.0000	72.1	
17	Methyl Acetate	43	3.639	3.642	(0.528)	297276	75.0000	75.4	
18	Methyl tert-butyl ether	73	3.767	3.774	(0.547)	1202093	75.0000	80.1	
19	Acetonitrile	41	4.073	4.080	(0.591)	450456	750.000	745	
20	Tertiary-butyl alcohol	59	3.909	3.912	(0.568)	163866	375.000	409	
21	Di-isopropyl ether	45	4.327	4.333	(0.628)	1182227	75.0000	78.6	
22	Chloroprene	53	4.449	4.453	(0.646)	695334	75.0000	76.3	
23	1,1-Dichloroethane	63	4.481	4.488	(0.651)	780472	75.0000	71.3	
24	Acrylonitrile	52	4.552	4.559	(0.661)	617882	375.000	391	

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6555.D
Report Date: 05-Oct-2023 10:28

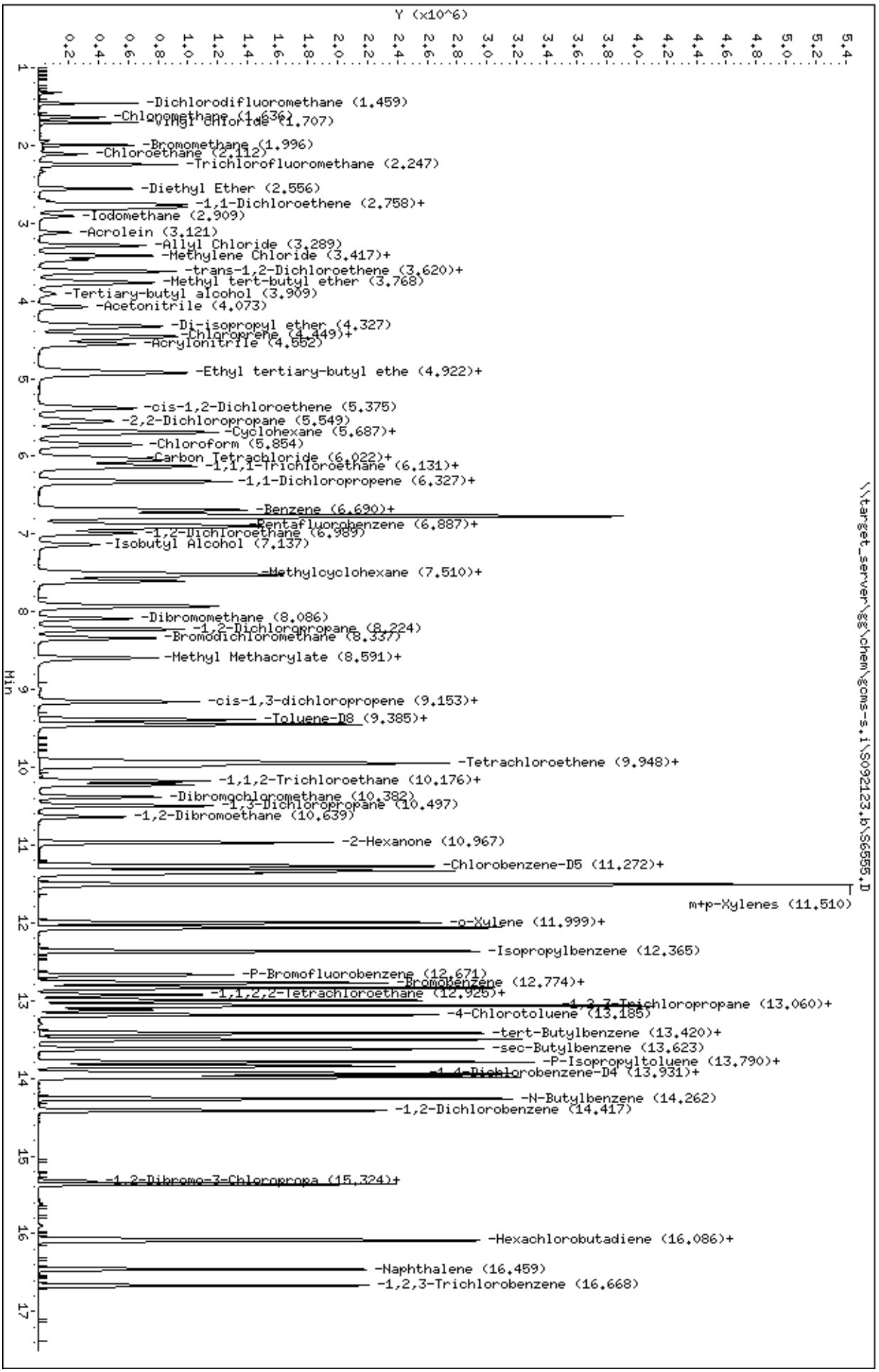
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25 Ethyl tertiary-butyl ether	59	4.922	4.925	(0.715)	1199364	75.0000	80.4	
	26 Vinyl Acetate	43	4.934	4.935	(0.649)	872279	75.0000	86.9	
	27 cis-1,2-Dichloroethene	96	5.375	5.385	(0.781)	448293	75.0000	75.5	
	28 2,2-Dichloropropane	77	5.548	5.552	(0.806)	566404	75.0000	70.1	
	29 Cyclohexane	56	5.687	5.690	(0.826)	623830	75.0000	76.5	
	30 Bromochloromethane	128	5.693	5.703	(0.827)	192616	75.0000	75.0	
	31 Chloroform	83	5.854	5.854	(0.850)	845558	75.0000	71.5	
	32 Carbon Tetrachloride	117	6.021	6.031	(0.792)	639534	75.0000	71.5	
	33 Tetrahydrofuran	42	6.060	6.063	(0.880)	530221	375.000	408	
	34 1,1,1-Trichloroethane	97	6.130	6.141	(0.890)	793622	75.0000	71.0	
$	35 Dibromofluoromethane	113	6.124	6.134	(0.889)	305203	50.0000	50.2	
	36 1,1-Dichloropropene	75	6.327	6.337	(0.832)	629846	75.0000	71.2	
	37 2-Butanone	43	6.317	6.324	(0.917)	786491	375.000	379	
	38 Benzene	78	6.690	6.697	(0.880)	1695728	75.0000	72.3	
	39 Propionitrile	54	6.735	6.735	(0.978)	554785	750.000	772	
	40 Methacrylonitrile	41	6.770	6.774	(0.983)	2484439	750.000	768	
*	41 Pentafluorobenzene	168	6.886	6.887	(1.000)	546633	50.0000		
$	42 1,2-Dichloroethane-D4	65	6.892	6.896	(1.001)	431295	50.0000	47.8	
	43 Tertiary-amyl methyl ether	73	6.918	6.922	(1.005)	1065635	75.0000	79.4	
	44 1,2-Dichloroethane	62	6.989	6.996	(0.919)	738823	75.0000	69.0	
	45 Isobutyl Alcohol	43	7.137	7.141	(1.036)	313442	1500.00	1730	
	46 Methylcyclohexane	83	7.510	7.510	(1.091)	703177	75.0000	77.7	
	47 Trichloroethene	95	7.532	7.542	(0.991)	462508	75.0000	69.2	
*	48 1,4-Difluorobenzene	114	7.603	7.613	(1.000)	961159	50.0000		
	49 Dibromomethane	93	8.085	8.092	(1.063)	288332	75.0000	73.5	
	50 1,2-Dichloropropane	63	8.224	8.227	(1.082)	434669	75.0000	73.6	
	51 Bromodichloromethane	83	8.336	8.343	(1.096)	654359	75.0000	74.0	
	52 Methyl Methacrylate	41	8.590	8.597	(1.130)	372527	75.0000	84.5	
	53 1,4-Dioxane	88	8.600	8.603	(1.131)	98285	1500.00	1590	
	54 2-Chloroethylvinylether	63	9.111	9.115	(1.198)	15027	75.0000	61.7(H)	
	55 cis-1,3-dichloropropene	75	9.153	9.160	(1.204)	725195	75.0000	78.5	
$	56 Toluene-D8	98	9.384	9.388	(1.234)	1121870	50.0000	49.8	
	57 Toluene	91	9.449	9.452	(1.243)	1820124	75.0000	71.0	
	58 Tetrachloroethene	164	9.918	9.922	(0.881)	354752	75.0000	73.9	
	59 4-methyl-2-pentanone	43	9.947	9.954	(1.308)	1861563	375.000	408	
	60 trans-1,3-Dichloropropene	75	9.986	9.992	(1.313)	682562	75.0000	77.6	
	61 1,1,2-Trichloroethane	97	10.175	10.179	(1.338)	407395	75.0000	75.3	
	62 Ethyl Methacrylate	69	10.224	10.234	(1.345)	597209	75.0000	86.6	
	63 Dibromochloromethane	129	10.381	10.385	(0.922)	502639	75.0000	77.8	
	64 1,3-Dichloropropane	76	10.497	10.497	(0.932)	783276	75.0000	74.1	
	65 1,2-Dibromoethane	107	10.638	10.642	(1.399)	438445	75.0000	76.6	
	66 2-Hexanone	43	10.966	10.970	(0.974)	1297517	375.000	405	
*	67 Chlorobenzene-D5	117	11.259	11.263	(1.000)	892112	50.0000		
	68 Chlorobenzene	112	11.278	11.282	(1.002)	1186737	75.0000	71.5	
	69 Ethylbenzene	106	11.333	11.336	(1.007)	644048	75.0000	72.1	
	70 m+p-Xylenes	106	11.510	11.513	(1.022)	1617985	150.000	147	
	71 1,1,1,2-Tetrachloroethane	131	11.368	11.372	(1.010)	470130	75.0000	75.1	
	72 o-Xylene	106	11.998	12.002	(1.066)	756447	75.0000	76.1	
	73 Styrene	104	12.059	12.066	(1.071)	1297477	75.0000	80.0	
	74 Bromoform	173	12.072	12.073	(1.072)	321380	75.0000	81.9	
	75 Isopropylbenzene	105	12.365	12.369	(0.888)	2079098	75.0000	75.2	
$	76 P-Bromofluorobenzene	95	12.670	12.671	(1.666)	456057	50.0000	49.0	
	77 Bromobenzene	156	12.773	12.777	(0.917)	504844	75.0000	74.0	
	78 cis-1,4-Dichloro-2-Butene	53	12.760	12.767	(0.916)	176231	75.0000	75.9	

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6555.D
Report Date: 05-Oct-2023 10:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	79 N-Propylbenzene	91	12.834	12.841	(0.921)	2490088	75.0000	73.2	
	80 1,1,2,2-Tetrachloroethane	83	12.924	12.931	(0.928)	539329	75.0000	75.6	
	81 2-Chlorotoluene	91	12.995	12.999	(0.933)	1506690	75.0000	73.1	
	82 1,2,3-Trichloropropane	75	13.059	13.063	(0.937)	492110	75.0000	72.7	
	83 1,3,5-Trimethylbenzene	105	13.069	13.070	(0.938)	1816150	75.0000	75.9	
	84 trans-1,4-Dichloro-2-Butene	53	13.121	13.121	(0.942)	171097	75.0000	78.8	
	85 4-Chlorotoluene	91	13.185	13.189	(0.946)	1603644	75.0000	73.8	
	86 tert-Butylbenzene	119	13.420	13.423	(0.963)	1534318	75.0000	75.5	
	87 1,2,4-Trimethylbenzene	105	13.500	13.504	(0.969)	1806739	75.0000	75.6	
	88 sec-Butylbenzene	105	13.622	13.626	(0.978)	2149276	75.0000	74.9	
	89 P-Isopropyltoluene	119	13.789	13.793	(0.990)	1924387	75.0000	77.3	
	90 1,3-Dichlorobenzene	146	13.844	13.848	(0.994)	943188	75.0000	72.4	
*	91 1,4-Dichlorobenzene-D4	152	13.931	13.934	(1.000)	472932	50.0000		
	92 1,4-Dichlorobenzene	146	13.950	13.951	(1.001)	979611	75.0000	72.3	
	93 1,2,3-Trimethylbenzene	105	13.985	13.989	(1.004)	1880321	75.0000	74.7	
	94 N-Butylbenzene	91	14.262	14.266	(1.024)	1824197	75.0000	76.2	
	95 1,2-Dichlorobenzene	146	14.416	14.420	(1.035)	915539	75.0000	74.1	
	96 1,2-Dibromo-3-Chloropropane	157	15.323	15.327	(1.100)	104724	75.0000	81.7	
	97 1,3,5-Trichlorobenzene	180	15.362	15.362	(1.103)	721640	75.0000	75.6	
	98 Hexachlorobutadiene	225	16.072	16.073	(1.154)	340106	75.0000	73.1	
	99 1,2,4-Trichlorobenzene	180	16.091	16.091	(1.155)	703020	75.0000	79.8	
	100 Naphthalene	128	16.458	16.462	(1.181)	1628806	75.0000	86.2	
	101 1,2,3-Trichlorobenzene	180	16.664	16.671	(1.196)	663256	75.0000	79.8	
M	104 1,2-Dichloroethylene (total)	96				847330	75.0000	148	
M	105 Xylenes (total)	106				2374432	300.000	223	
M	106 Total Alkylbenzenes	100				13545155	75.0000	529	

QC Flag Legend

H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\S6555.D
Date : 21-SEP-2023 19:58
Client ID:
Sample Info: WG342876-7
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-s.i
Operator: JSS
Column diameter: 0.18
\\target_server\gg\chem\gcms-s.i\S092123.b\S6555.D
Y (x10^6)
Min
-Dichlorodifluoromethane (1.459)
-Chloromethane (1.636)
-Vinyl Chloride (1.707)
-Bromomethane (1.996)
-Chloroethane (2.112)
-Trichlorofluoromethane (2.247)
-Diethyl Ether (2.556)
-1,1-Dichloroethene (2.758)+
-Iodomethane (2.909)
-Acrolein (3.121)
-Allyl Chloride (3.289)
-Methylene Chloride (3.417)+
-trans-1,2-Dichloroethene (3.620)+
-Methyl tert-butyl ether (3.768)
-Tertiary-butyl alcohol (3.909)
-Acetonitrile (4.073)
-Di-isopropyl ether (4.327)
-Chloroprene (4.449)+
-Acrylonitrile (4.552)
-Ethyl tertiary-butyl ethe (4.922)+
-cis-1,2-Dichloroethene (5.375)
-2,2-Dichloropropane (5.549)
-Cyclohexane (5.687)+
-Chloroform (5.854)
-Carbon Tetrachloride (6.022)+
-1,1,1-Trichloroethane (6.131)+
-1,1-Dichloropropene (6.327)+
-Benzene (6.690)+
-Pentafluorobenzene (6.887)+
-1,2-Dichloroethane (6.989)
-Isobutyl Alcohol (7.137)
-Methylcyclohexane (7.510)+
-Dibromomethane (8.086)
-1,2-Dichloropropane (8.224)
-Bromodichloromethane (8.337)
-Methyl Methacrylate (8.591)+
-cis-1,3-dichloropropene (9.153)+
-Toluene-D8 (9.385)+
-Tetrachloroethene (9.948)+
-1,1,2-Trichloroethane (10.176)+
-Dibromochloromethane (10.382)
-1,3-Dichloropropane (10.497)
-1,2-Dibromoethane (10.639)
-2-Hexanone (10.967)
-Chlorobenzene-D5 (11.272)+
m+p-Xylenes (11.510)
-o-Xylene (11.999)+
-Isopropylbenzene (12.365)
-P-Bromofluorobenzene (12.671)
-Bromobenzene (12.774)+
-1,1,2,2-Tetrachloroethane (12.925)+
-1,2,3-Trichloropropane (13.060)+
-4-Chlorotoluene (13.185)
-tert-Butylbenzene (13.420)+
-sec-Butylbenzene (13.623)
-P-Isopropyltoluene (13.790)+
-1,4-Dichlorobenzene-D4 (13.931)+
-N-Butylbenzene (14.262)
-1,2-Dichlorobenzene (14.417)
-1,2-Dibromo-3-Chloropropa (15.324)+
-Hexachlorobutadiene (16.086)+
-Naphthalene (16.459)
-1,2,3-Trichlorobenzene (16.668)

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343210-4
Analytical Date: 09/28/23 09:23
Lab File ID: S6663.D
Instrument ID: GCMS-S
Initial Calibration Date(s): 09/21/23 16:50 09/21/23 19:58
Column ID:

Compound	$\overline{RRF}$/Amount	RF50	CCAL RRF50	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Vinyl chloride	0.56581	0.54629	0.54629	0.100	-3.44979	20.000	Averaged	
1,1-Dichloroethene	0.44502	0.42710	0.42710	0.100	-4.02611	20.000	Averaged	
Chloroform	1.08229	1.00308	1.00308	0.200	-7.31870	20.000	Averaged	
Carbon Tetrachloride	0.46522	0.53234	0.53234	0.100	14.42843	20.000	Averaged	
2-Butanone	0.18976	0.17669	0.17669	0.100	-6.88700	20.000	Averaged	
Benzene	1.21940	1.23059	1.23059	0.500	0.91733	20.000	Averaged	
1,2-Dichloroethane	0.55664	0.54685	0.54685	0.100	-1.75792	20.000	Averaged	
Trichloroethene	0.34757	0.34253	0.34253	0.200	-1.45176	20.000	Averaged	
Tetrachloroethene	0.26897	0.29786	0.29786	0.200	10.74050	20.000	Averaged	
Chlorobenzene	0.92975	0.94401	0.94401	0.500	1.53316	20.000	Averaged	
Dibromofluoromethane	0.55585	0.51239	0.51239	0.010	-7.81876	20.000	Averaged	
1,2-Dichloroethane-D4	0.82605	0.71543	0.71543	0.010	-13.39166	20.000	Averaged	
Toluene-D8	1.17109	1.16089	1.16089	0.010	-0.87098	20.000	Averaged	
P-Bromofluorobenzene	0.48447	0.48110	0.48110	0.010	-0.69562	20.000	Averaged	

*** = Compound out of QC criteria**

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P.O. Box 540, Scarborough, ME 04070
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sales@katahdinlab.com

Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6663.D
Report Date: 13-Oct-2023 15:16

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S092823.b\S6663.D
Lab Smp Id: WG343210-4
Inj Date : 28-SEP-2023 09:23
Operator : CR   Inst ID: gcms-s.i
Smp Info : WG343210-4,SQ5109
Misc Info : WG343210,WG342876-4,SQ5109-1
Comment   : SW846 5030C
Method   : \\target_server\gg\chem\gcms-s.i\S092823.b\S826(09)23.m
Meth Date : 11-Oct-2023 15:10 croy   Quant Type: ISTD
Cal Date : 21-SEP-2023 16:50   Cal File: S6548.D
Als bottle: 1   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOA-WS

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.459	1.459	(0.212)	311964	50.0000	61.3	
2	Chloromethane	50	1.635	1.639	(0.238)	273676	50.0000	45.7	
3	Vinyl chloride	62	1.706	1.710	(0.248)	287613	50.0000	48.3	
4	Bromomethane	94	1.999	1.999	(0.290)	136222	50.0000	45.4	
5	Chloroethane	64	2.114	2.118	(0.307)	165072	50.0000	46.3	
6	Trichlorofluoromethane	101	2.249	2.253	(0.327)	507115	50.0000	50.1	
7	Diethyl Ether	59	2.558	2.559	(0.372)	196346	50.0000	45.3	
8	1,1-Dichloroethene	96	2.761	2.761	(0.401)	224863	50.0000	48.0	
9	Carbon Disulfide	76	2.786	2.790	(0.405)	520000	50.0000	51.6	
10	Freon-113	151	2.809	2.810	(0.408)	194018	50.0000	52.3	
11	Iodomethane	142	2.909	2.916	(0.422)	204287	50.0000	53.7	
12	Acrolein	56	3.121	3.125	(0.453)	131418	250.000	274	
13	Allyl Chloride	41	3.288	3.292	(0.478)	315308	50.0000	49.4	
14	Methylene Chloride	84	3.420	3.417	(0.497)	256650	50.0000	47.5	
15	Acetone	43	3.468	3.472	(0.504)	366093	250.000	255	
16	trans-1,2-Dichloroethene	96	3.619	3.620	(0.526)	255799	50.0000	48.0	
17	Methyl Acetate	43	3.638	3.642	(0.528)	159671	50.0000	42.0	
18	Methyl tert-butyl ether	73	3.767	3.774	(0.547)	682457	50.0000	47.2	
19	Acetonitrile	41	4.076	4.080	(0.592)	229147	500.000	393	
20	Tertiary-butyl alcohol	59	3.902	3.912	(0.567)	79655	250.000	206	
21	Di-isopropyl ether	45	4.330	4.333	(0.629)	659828	50.0000	45.5	
22	Chloroprene	53	4.449	4.453	(0.646)	418418	50.0000	47.6	
23	1,1-Dichloroethane	63	4.481	4.488	(0.651)	485567	50.0000	46.0	

Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6663.D
Report Date: 13-Oct-2023 15:16

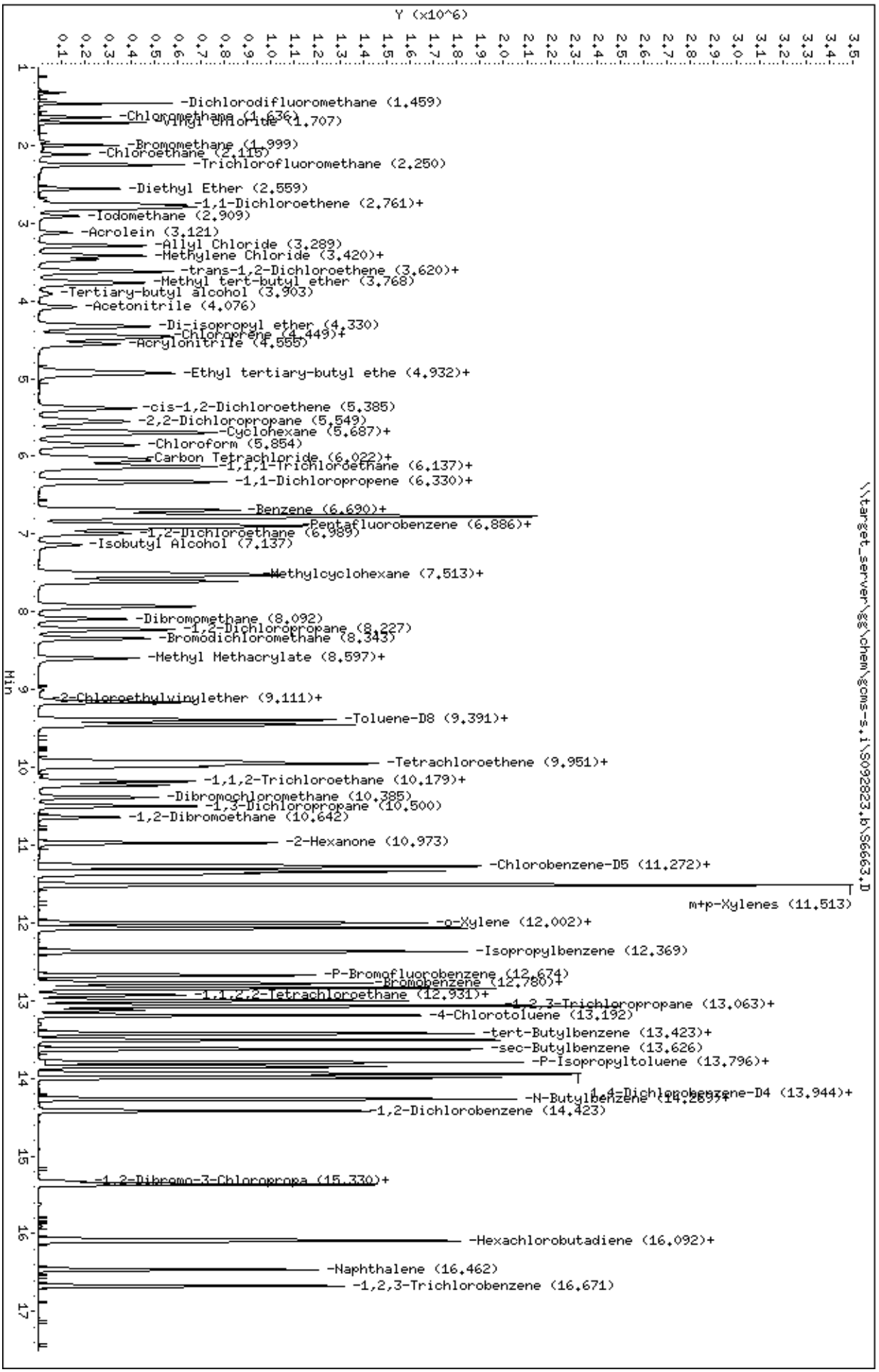
			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	24	Acrylonitrile	52	4.555	4.559	(0.661)	323017	250.000	212	
	25	Ethyl tertiary-butyl ether	59	4.925	4.925	(0.715)	673800	50.0000	46.9	
	26	Vinyl Acetate	43	4.931	4.935	(0.648)	515250	50.0000	58.9	
	27	cis-1,2-Dichloroethene	96	5.384	5.385	(0.782)	273470	50.0000	47.8	
	28	2,2-Dichloropropane	77	5.548	5.552	(0.806)	438599	50.0000	56.3	
	29	Cyclohexane	56	5.687	5.690	(0.826)	386380	50.0000	49.2	
	30	Bromochloromethane	128	5.696	5.703	(0.827)	127943	50.0000	51.7	
	31	Chloroform	83	5.854	5.854	(0.850)	528104	50.0000	46.3	
	32	Carbon Tetrachloride	117	6.021	6.031	(0.792)	445493	50.0000	57.2	
	33	Tetrahydrofuran	42	6.060	6.063	(0.880)	271759	250.000	217	
	34	1,1,1-Trichloroethane	97	6.137	6.141	(0.891)	512385	50.0000	47.6	
$	35	Dibromofluoromethane	113	6.134	6.134	(0.891)	269766	50.0000	46.1	
	36	1,1-Dichloropropene	75	6.330	6.337	(0.832)	394828	50.0000	51.2	
	37	2-Butanone	43	6.320	6.324	(0.918)	465132	250.000	233	
	38	Benzene	78	6.690	6.697	(0.880)	1029819	50.0000	50.4	
	39	Propionitrile	54	6.735	6.735	(0.978)	291203	500.000	420	
	40	Methacrylonitrile	41	6.770	6.774	(0.983)	1329205	500.000	426	
*	41	Pentafluorobenzene	168	6.886	6.887	(1.000)	526484	50.0000		
$	42	1,2-Dichloroethane-D4	65	6.896	6.896	(1.001)	376663	50.0000	43.3	
	43	Tertiary-amyl methyl ether	73	6.918	6.922	(1.005)	587809	50.0000	45.5	
	44	1,2-Dichloroethane	62	6.989	6.996	(0.919)	457632	50.0000	49.1	
	45	Isobutyl Alcohol	43	7.137	7.141	(1.036)	137617	1000.00	793	
	46	Methylcyclohexane	83	7.513	7.510	(1.091)	459714	50.0000	52.8	
	47	Trichloroethene	95	7.542	7.542	(0.992)	286644	50.0000	49.3	
*	48	1,4-Difluorobenzene	114	7.606	7.613	(1.000)	836851	50.0000		
	49	Dibromomethane	93	8.092	8.092	(1.064)	174298	50.0000	51.0	
	50	1,2-Dichloropropane	63	8.227	8.227	(1.082)	251682	50.0000	49.0	
	51	Bromodichloromethane	83	8.342	8.343	(1.097)	395010	50.0000	51.4	
	52	Methyl Methacrylate	41	8.596	8.597	(1.130)	192159	50.0000	44.0	
	53	1,4-Dioxane	88	8.600	8.603	(1.131)	53219	1000.00	991	
	54	2-Chloroethylvinylether	63	9.111	9.115	(1.198)	13255	50.0000	62.5	
	55	cis-1,3-dichloropropene	75	9.159	9.160	(1.204)	445943	50.0000	55.4	
$	56	Toluene-D8	98	9.391	9.388	(1.235)	971496	50.0000	49.6	
	57	Toluene	91	9.452	9.452	(1.243)	1126866	50.0000	50.4	
	58	Tetrachloroethene	164	9.924	9.922	(0.881)	231343	50.0000	55.4	
	59	4-methyl-2-pentanone	43	9.950	9.954	(1.308)	956833	250.000	227	
	60	trans-1,3-Dichloropropene	75	9.992	9.992	(1.314)	417744	50.0000	54.5	
	61	1,1,2-Trichloroethane	97	10.178	10.179	(1.338)	241324	50.0000	51.2	
	62	Ethyl Methacrylate	69	10.230	10.234	(1.345)	318331	50.0000	45.8	
	63	Dibromochloromethane	129	10.384	10.385	(0.922)	298577	50.0000	53.1	
	64	1,3-Dichloropropane	76	10.500	10.497	(0.932)	456535	50.0000	49.6	
	65	1,2-Dibromoethane	107	10.641	10.642	(1.399)	255103	50.0000	51.2	
	66	2-Hexanone	43	10.973	10.970	(0.974)	659641	250.000	222	
*	67	Chlorobenzene-D5	117	11.265	11.263	(1.000)	776682	50.0000		
	68	Chlorobenzene	112	11.281	11.282	(1.001)	733193	50.0000	50.8	
	69	Ethylbenzene	106	11.339	11.336	(1.007)	402568	50.0000	51.8	
	70	m+p-Xylenes	106	11.513	11.513	(1.022)	1007132	100.000	105	
	71	1,1,1,2-Tetrachloroethane	131	11.368	11.372	(1.009)	291196	50.0000	53.5	
	72	o-Xylene	106	12.001	12.002	(1.065)	466591	50.0000	53.9	
	73	Styrene	104	12.066	12.066	(1.071)	782524	50.0000	55.4	
	74	Bromoform	173	12.075	12.073	(1.072)	179666	50.0000	46.7	
	75	Isopropylbenzene	105	12.371	12.369	(0.888)	1310150	50.0000	52.7	
$	76	P-Bromofluorobenzene	95	12.673	12.671	(1.666)	402605	50.0000	49.6	
	77	Bromobenzene	156	12.780	12.777	(0.917)	313226	50.0000	51.1	

Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6663.D
Report Date: 13-Oct-2023 15:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	78 cis-1,4-Dichloro-2-Butene	53	12.764	12.767	(0.916)	104048	50.0000	49.9	
	79 N-Propylbenzene	91	12.841	12.841	(0.921)	1570285	50.0000	51.4	
	80 1,1,2,2-Tetrachloroethane	83	12.931	12.931	(0.928)	305982	50.0000	47.7	
	81 2-Chlorotoluene	91	13.001	12.999	(0.933)	933175	50.0000	50.4	
	82 1,2,3-Trichloropropane	75	13.063	13.063	(0.937)	280636	50.0000	46.2	
	83 1,3,5-Trimethylbenzene	105	13.072	13.070	(0.938)	1144819	50.0000	53.2	
	84 trans-1,4-Dichloro-2-Butene	53	13.124	13.121	(0.942)	99208	50.0000	50.8	
	85 4-Chlorotoluene	91	13.191	13.189	(0.946)	997709	50.0000	51.1	
	86 tert-Butylbenzene	119	13.423	13.423	(0.963)	968829	50.0000	53.1	
	87 1,2,4-Trimethylbenzene	105	13.506	13.504	(0.969)	1137197	50.0000	53.0	
	88 sec-Butylbenzene	105	13.625	13.626	(0.978)	1352527	50.0000	52.4	
	89 P-Isopropyltoluene	119	13.796	13.793	(0.990)	1227165	50.0000	54.9	
	90 1,3-Dichlorobenzene	146	13.847	13.848	(0.994)	591699	50.0000	50.5	
*	91 1,4-Dichlorobenzene-D4	152	13.937	13.934	(1.000)	424730	50.0000		
	92 1,4-Dichlorobenzene	146	13.950	13.951	(1.001)	608826	50.0000	50.0	
	93 1,2,3-Trimethylbenzene	105	13.992	13.989	(1.004)	1147042	50.0000	50.7	
	94 N-Butylbenzene	91	14.268	14.266	(1.024)	1152728	50.0000	53.6	
	95 1,2-Dichlorobenzene	146	14.423	14.420	(1.035)	559928	50.0000	50.4	
	96 1,2-Dibromo-3-Chloropropane	157	15.329	15.327	(1.100)	53780	50.0000	46.7	
	97 1,3,5-Trichlorobenzene	180	15.365	15.362	(1.102)	456793	50.0000	53.3	
	98 Hexachlorobutadiene	225	16.075	16.073	(1.153)	225516	50.0000	53.9	
	99 1,2,4-Trichlorobenzene	180	16.098	16.091	(1.155)	426876	50.0000	53.9	
	100 Naphthalene	128	16.461	16.462	(1.181)	892098	50.0000	47.2	
	101 1,2,3-Trichlorobenzene	180	16.670	16.671	(1.196)	387515	50.0000	51.9	
	102 1-Chlorohexane	91	14.268	14.266	(1.267)	1152728	50.0000	(a)	
M	104 1,2-Dichloroethylene (total)	96				529269	50.0000	95.8	
M	105 Xylenes (total)	106				1473723	150.000	159	
M	106 Total Alkylbenzenes	100				8553550	50.0000	372	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6663.D
Date : 28-SEP-2023 09:23
Client ID:
Sample Info: WG343210-4,SQ5109
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-s.i
Operator: CR
Column diameter: 0.18
\\target_server\gg\chem\gcms-s.i\S092823.b\S6663.D
Y (x10^6)
Min
-Dichlorodifluoromethane (1.459)
-Chloromethane (1.636)
-Vinyl Chloride (1.707)
-Bromomethane (1.999)
-Chloroethane (2.115)
-Trichlorofluoromethane (2.250)
-Diethyl Ether (2.559)
-1,1-Dichloroethene (2.761)+
-Iodomethane (2.909)
-Acrolein (3.121)
-Allyl Chloride (3.289)
-Methylene Chloride (3.420)+
-trans-1,2-Dichloroethene (3.620)+
-Methyl tert-butyl ether (3.768)
-Tertiary-butyl alcohol (3.903)
-Acetonitrile (4.076)
-Di-isopropyl ether (4.330)
-Chloroprene (4.449)+
-Acrylonitrile (4.555)
-Ethyl tertiary-butyl ethe (4.932)+
-cis-1,2-Dichloroethene (5.385)
-2,2-Dichloropropane (5.549)
-Cyclohexane (5.687)+
-Chloroform (5.854)
-Carbon Tetrachloride (6.022)+
-1,1,1-Trichloroethane (6.137)+
-1,1-Dichloropropene (6.330)+
-Benzene (6.690)+
-Pentafluorobenzene (6.886)+
-1,2-Dichloroethane (6.989)
-Isobutyl Alcohol (7.137)
-Methylcyclohexane (7.513)+
-Dibromomethane (8.092)
-1,2-Dichloropropane (8.227)
-Bromodichloromethane (8.343)
-Methyl Methacrylate (8.597)+
-2-Chloroethylvinylether (9.111)+
-Toluene-D8 (9.391)+
-Tetrachloroethene (9.951)+
-1,1,2-Trichloroethane (10.179)+
-Dibromochloromethane (10.385)
-1,3-Dichloropropane (10.500)
-1,2-Dibromoethane (10.642)
-2-Hexanone (10.973)
-Chlorobenzene-D5 (11.272)+
m+p-Xylenes (11.513)
-o-Xylene (12.002)+
-Isopropylbenzene (12.369)
-P-Bromofluorobenzene (12.674)
-Bromobenzene (12.780)+
-1,1,2,2-Tetrachloroethane (12.931)+
-1,2,3-Trichloropropane (13.063)+
-4-Chlorotoluene (13.192)
-tert-Butylbenzene (13.423)+
-sec-Butylbenzene (13.626)
-P-Isopropyltoluene (13.796)+
-1,4-Dichlorobenzene-D4 (13.944)+
-N-Butylbenzene (14.269)+
-1,2-Dichlorobenzene (14.423)
-1,2-Dibromo-3-Chloropropa (15.330)+
-Hexachlorobutadiene (16.092)+
-Naphthalene (16.462)
-1,2,3-Trichlorobenzene (16.671)

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343210-5
Analytical Date: 09/28/23 21:14
Lab File ID: S6689.D
Instrument ID: GCMS-S
Initial Calibration Date(s): 09/21/23 16:50 09/21/23 19:58
Column ID:

Compound	$\overline{RRF}$/Amount	RF50	CCAL RRF50	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Vinyl chloride	0.56581	0.51953	0.51953	0.100	-8.17913	50.000	Averaged	
1,1-Dichloroethene	0.44502	0.40133	0.40133	0.100	-9.81743	50.000	Averaged	
Chloroform	1.08229	1.05067	1.05067	0.200	-2.92135	50.000	Averaged	
Carbon Tetrachloride	0.46522	0.54951	0.54951	0.100	18.11860	50.000	Averaged	
2-Butanone	0.18976	0.17823	0.17823	0.100	-6.07955	50.000	Averaged	
Benzene	1.21940	1.15927	1.15927	0.500	-4.93142	50.000	Averaged	
1,2-Dichloroethane	0.55664	0.61257	0.61257	0.100	10.04868	50.000	Averaged	
Trichloroethene	0.34757	0.35101	0.35101	0.200	0.98885	50.000	Averaged	
Tetrachloroethene	0.26897	0.26477	0.26477	0.200	-1.56050	50.000	Averaged	
Chlorobenzene	0.92975	0.89440	0.89440	0.500	-3.80211	50.000	Averaged	
Dibromofluoromethane	0.55585	0.53940	0.53940	0.010	-2.96062	50.000	Averaged	
1,2-Dichloroethane-D4	0.82605	0.86689	0.86689	0.010	4.94342	50.000	Averaged	
Toluene-D8	1.17109	1.16847	1.16847	0.010	-0.22375	50.000	Averaged	
P-Bromofluorobenzene	0.48447	0.51317	0.51317	0.010	5.92604	50.000	Averaged	

*** = Compound out of QC criteria**

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6689.D
Report Date: 13-Oct-2023 15:20

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S092823.b\S6689.D
Lab Smp Id: WG343210-5
Inj Date : 28-SEP-2023 21:14
Operator : CR   Inst ID: gcms-s.i
Smp Info : WG343210-5,SQ5109
Misc Info : WG343210,WG342876-4,SQ5109-1
Comment   : SW846 5030C
Method   : \\target_server\gg\chem\gcms-s.i\S092823.b\S826(09)23.m
Meth Date : 13-Oct-2023 15:20 croy   Quant Type: ISTD
Cal Date : 21-SEP-2023 16:50   Cal File: S6548.D
Als bottle: 27   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: ORGANICS2

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

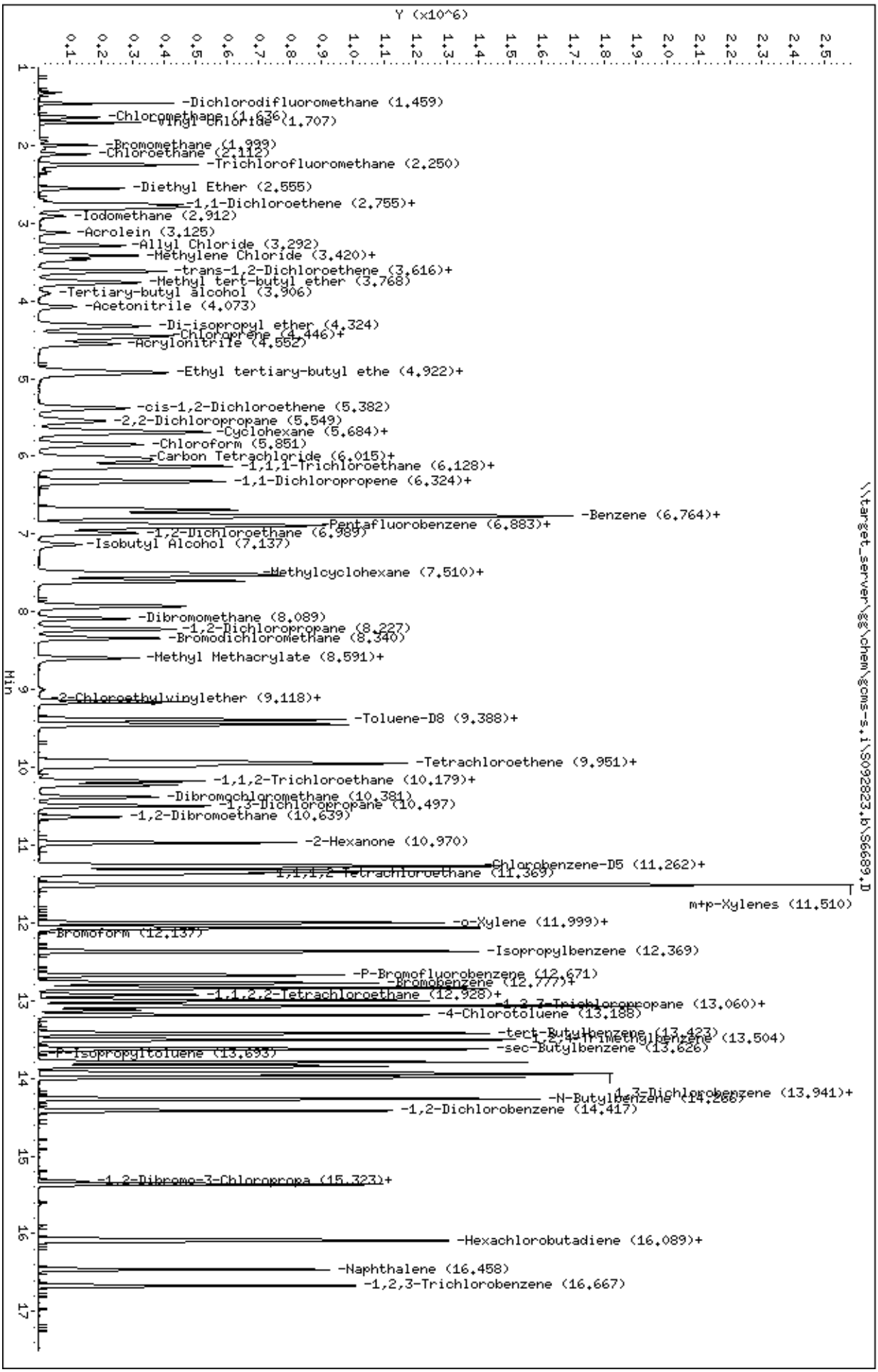
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.459	1.459	(0.212)	233934	50.0000	64.0	
2	Chloromethane	50	1.635	1.639	(0.238)	188713	50.0000	44.0	
3	Vinyl chloride	62	1.706	1.710	(0.248)	196230	50.0000	45.9	
4	Bromomethane	94	1.999	1.999	(0.290)	74610	50.0000	35.0	
5	Chloroethane	64	2.111	2.118	(0.307)	123382	50.0000	48.3	
6	Trichlorofluoromethane	101	2.249	2.253	(0.327)	399766	50.0000	55.1	
7	Diethyl Ether	59	2.555	2.559	(0.371)	135456	50.0000	43.6	
8	1,1-Dichloroethene	96	2.754	2.761	(0.400)	151585	50.0000	45.1	
9	Carbon Disulfide	76	2.786	2.790	(0.405)	334716	50.0000	46.3	
10	Freon-113	151	2.809	2.810	(0.408)	128989	50.0000	48.5	
11	Iodomethane	142	2.912	2.916	(0.423)	97331	50.0000	35.6	
12	Acrolein	56	3.124	3.125	(0.454)	87760	250.000	255	
13	Allyl Chloride	41	3.291	3.292	(0.478)	177500	50.0000	38.8	
14	Methylene Chloride	84	3.420	3.417	(0.497)	176551	50.0000	45.6	
15	Acetone	43	3.468	3.472	(0.504)	238082	250.000	231	
16	trans-1,2-Dichloroethene	96	3.616	3.620	(0.525)	170220	50.0000	44.5	
17	Methyl Acetate	43	3.642	3.642	(0.529)	116957	50.0000	42.9	
18	Methyl tert-butyl ether	73	3.767	3.774	(0.547)	450805	50.0000	43.5	
19	Acetonitrile	41	4.073	4.080	(0.592)	165125	500.000	395	
20	Tertiary-butyl alcohol	59	3.905	3.912	(0.567)	42105	250.000	152	
21	Di-isopropyl ether	45	4.323	4.333	(0.628)	444803	50.0000	42.8	
22	Chloroprene	53	4.446	4.453	(0.646)	313952	50.0000	49.8	
23	1,1-Dichloroethane	63	4.478	4.488	(0.651)	340555	50.0000	45.0	

Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6689.D
Report Date: 13-Oct-2023 15:20

							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	24 Acrylonitrile	52	4.552	4.559	(0.661)	247244	250.000	226	
	25 Ethyl tertiary-butyl ether	59	4.921	4.925	(0.715)	431782	50.0000	41.9	
	26 Vinyl Acetate	43	4.928	4.935	(0.648)	361728	50.0000	56.5	
	27 cis-1,2-Dichloroethene	96	5.381	5.385	(0.782)	186496	50.0000	45.5	
	28 2,2-Dichloropropane	77	5.548	5.552	(0.806)	219798	50.0000	39.4	
	29 Cyclohexane	56	5.683	5.690	(0.826)	259516	50.0000	46.0	
	30 Bromochloromethane	128	5.696	5.703	(0.828)	83928	50.0000	47.3	
	31 Chloroform	83	5.851	5.854	(0.850)	396844	50.0000	48.5	
	32 Carbon Tetrachloride	117	6.015	6.031	(0.791)	336176	50.0000	59.0	
	33 Tetrahydrofuran	42	6.063	6.063	(0.881)	202323	250.000	225	
	34 1,1,1-Trichloroethane	97	6.127	6.141	(0.890)	395276	50.0000	51.2	
$	35 Dibromofluoromethane	113	6.127	6.134	(0.890)	203733	50.0000	48.5	
	36 1,1-Dichloropropene	75	6.326	6.337	(0.832)	283680	50.0000	50.4	
	37 2-Butanone	43	6.317	6.324	(0.918)	336585	250.000	235	
	38 Benzene	78	6.690	6.697	(0.880)	709208	50.0000	47.5	
	39 Propionitrile	54	6.735	6.735	(0.979)	219788	500.000	442	
	40 Methacrylonitrile	41	6.764	6.774	(0.983)	1049182	500.000	469	
*	41 Pentafluorobenzene	168	6.883	6.887	(1.000)	377706	50.0000		
$	42 1,2-Dichloroethane-D4	65	6.886	6.896	(1.000)	327429	50.0000	52.5	
	43 Tertiary-amyl methyl ether	73	6.918	6.922	(1.005)	374318	50.0000	40.4	
	44 1,2-Dichloroethane	62	6.989	6.996	(0.919)	374753	50.0000	55.0	
	45 Isobutyl Alcohol	43	7.137	7.141	(1.037)	98133	1000.00	788	
	46 Methylcyclohexane	83	7.510	7.510	(1.091)	304501	50.0000	48.7	
	47 Trichloroethene	95	7.535	7.542	(0.991)	214738	50.0000	50.5	
*	48 1,4-Difluorobenzene	114	7.606	7.613	(1.000)	611772	50.0000		
	49 Dibromomethane	93	8.088	8.092	(1.063)	133840	50.0000	53.6	
	50 1,2-Dichloropropane	63	8.227	8.227	(1.082)	177046	50.0000	47.1	
	51 Bromodichloromethane	83	8.339	8.343	(1.096)	302420	50.0000	53.8	
	52 Methyl Methacrylate	41	8.590	8.597	(1.129)	144781	50.0000	45.3	
	53 1,4-Dioxane	88	8.603	8.603	(1.131)	34072	1000.00	868	
	54 2-Chloroethylvinylether	63	9.117	9.115	(1.199)	2217	50.0000	14.3	
	55 cis-1,3-dichloropropene	75	9.153	9.160	(1.203)	291227	50.0000	49.5	
$	56 Toluene-D8	98	9.387	9.388	(1.234)	714840	50.0000	49.9	
	57 Toluene	91	9.449	9.452	(1.242)	790878	50.0000	48.4	
	58 Tetrachloroethene	164	9.921	9.922	(0.881)	152885	50.0000	49.2	
	59 4-methyl-2-pentanone	43	9.950	9.954	(1.308)	760869	250.000	247	
	60 trans-1,3-Dichloropropene	75	9.989	9.992	(1.313)	289520	50.0000	51.7	
	61 1,1,2-Trichloroethane	97	10.178	10.179	(1.338)	174090	50.0000	50.5	
	62 Ethyl Methacrylate	69	10.230	10.234	(1.345)	231733	50.0000	45.6	
	63 Dibromochloromethane	129	10.381	10.385	(0.922)	224763	50.0000	53.8	
	64 1,3-Dichloropropane	76	10.497	10.497	(0.932)	334796	50.0000	49.0	
	65 1,2-Dibromoethane	107	10.638	10.642	(1.399)	184074	50.0000	50.5	
	66 2-Hexanone	43	10.969	10.970	(0.974)	520872	250.000	235	
*	67 Chlorobenzene-D5	117	11.262	11.263	(1.000)	577416	50.0000		
	68 Chlorobenzene	112	11.281	11.282	(1.002)	516442	50.0000	48.1	
	69 Ethylbenzene	106	11.336	11.336	(1.007)	281375	50.0000	48.7	
	70 m+p-Xylenes	106	11.510	11.513	(1.022)	712082	100.000	100	
	71 1,1,1,2-Tetrachloroethane	131	11.368	11.372	(1.009)	213693	50.0000	52.8	
	72 o-Xylene	106	11.998	12.002	(1.065)	325874	50.0000	50.7	
	73 Styrene	104	12.063	12.066	(1.071)	551956	50.0000	52.6	
	74 Bromoform	173	12.072	12.073	(1.072)	135669	50.0000	47.4	
	75 Isopropylbenzene	105	12.368	12.369	(0.888)	937403	50.0000	49.6	
$	76 P-Bromofluorobenzene	95	12.670	12.671	(1.666)	313946	50.0000	53.0	
	77 Bromobenzene	156	12.776	12.777	(0.917)	220433	50.0000	47.4	

Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6689.D
Report Date: 13-Oct-2023 15:20

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	78	cis-1,4-Dichloro-2-Butene	53	12.764	12.767	(0.916)	75206	50.0000	47.4	
	79	N-Propylbenzene	91	12.837	12.841	(0.922)	1137548	50.0000	49.0	
	80	1,1,2,2-Tetrachloroethane	83	12.927	12.931	(0.928)	234196	50.0000	48.1	
	81	2-Chlorotoluene	91	12.998	12.999	(0.933)	700426	50.0000	49.8	
	82	1,2,3-Trichloropropane	75	13.059	13.063	(0.937)	224455	50.0000	48.6	
	83	1,3,5-Trimethylbenzene	105	13.069	13.070	(0.938)	842576	50.0000	51.6	
	84	trans-1,4-Dichloro-2-Butene	53	13.124	13.121	(0.942)	75916	50.0000	51.2	
	85	4-Chlorotoluene	91	13.188	13.189	(0.947)	735473	50.0000	49.6	
	86	tert-Butylbenzene	119	13.423	13.423	(0.964)	704096	50.0000	50.8	
	87	1,2,4-Trimethylbenzene	105	13.503	13.504	(0.969)	842540	50.0000	51.7	
	88	sec-Butylbenzene	105	13.622	13.626	(0.978)	984377	50.0000	50.2	
	89	P-Isopropyltoluene	119	13.792	13.793	(0.990)	873728	50.0000	51.4	
	90	1,3-Dichlorobenzene	146	13.850	13.848	(0.994)	422412	50.0000	47.5	
*	91	1,4-Dichlorobenzene-D4	152	13.931	13.934	(1.000)	322708	50.0000		
	92	1,4-Dichlorobenzene	146	13.950	13.951	(1.001)	442308	50.0000	47.8	
	93	1,2,3-Trimethylbenzene	105	13.989	13.989	(1.004)	857253	50.0000	49.9	
	94	N-Butylbenzene	91	14.265	14.266	(1.024)	833465	50.0000	51.0	
	95	1,2-Dichlorobenzene	146	14.416	14.420	(1.035)	406158	50.0000	48.2	
	96	1,2-Dibromo-3-Chloropropane	157	15.326	15.327	(1.100)	39695	50.0000	45.4	
	97	1,3,5-Trichlorobenzene	180	15.365	15.362	(1.103)	313660	50.0000	48.1	
	98	Hexachlorobutadiene	225	16.072	16.073	(1.154)	155401	50.0000	48.9	
	99	1,2,4-Trichlorobenzene	180	16.095	16.091	(1.155)	293790	50.0000	48.9	
	100	Naphthalene	128	16.461	16.462	(1.182)	643428	50.0000	44.8	
	101	1,2,3-Trichlorobenzene	180	16.670	16.671	(1.197)	278503	50.0000	49.1	
M	104	1,2-Dichloroethylene (total)	96				356716	50.0000	90.0	
M	105	Xylenes (total)	106				1037956	150.000	151	
M	106	Total Alkylbenzenes	100				6218330	50.0000	356	


Y (x10^6)
Min
Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6689.D
Date : 28-SEP-2023 21:14
Client ID:
Sample Info: WG343210-5,SQ5109
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-s.i
Operator: CR
Column diameter: 0.18
\\target_server\gg\chem\gcms-s.i\S092823.b\S6689.D
-Dichlorodifluoromethane (1.459)
-Chloromethane (1.636)
-Vinyl Chloride (1.707)
-Bromomethane (1.999)
-Chloroethane (2.112)
-Trichlorofluoromethane (2.250)
-Diethyl Ether (2.555)
-1,1-Dichloroethene (2.755)+
-Iodomethane (2.912)
-Acrolein (3.125)
-Allyl Chloride (3.292)
-Methylene Chloride (3.420)+
-trans-1,2-Dichloroethene (3.616)+
-Methyl tert-butyl ether (3.768)
-Tertiary-butyl alcohol (3.906)
-Acetonitrile (4.073)
-Di-isopropyl ether (4.324)
-Chloroprene (4.446)+
-Acrylonitrile (4.552)
-Ethyl tertiary-butyl ethe (4.922)+
-cis-1,2-Dichloroethene (5.382)
-2,2-Dichloropropane (5.549)
-Cyclohexane (5.684)+
-Chloroform (5.851)
-Carbon Tetrachloride (6.015)+
-1,1,1-Trichloroethane (6.128)+
-1,1-Dichloropropene (6.324)+
-Benzene (6.764)+
-Pentafluorobenzene (6.883)+
-1,2-Dichloroethane (6.989)
-Isobutyl Alcohol (7.137)
-Methylcyclohexane (7.510)+
-Dibromomethane (8.089)
-1,2-Dichloropropane (8.227)
-Bromodichloromethane (8.340)
-Methyl Methacrylate (8.591)+
-2-Chloroethylvinylether (9.118)+
-Toluene-D8 (9.388)+
-Tetrachloroethene (9.951)+
-1,1,2-Trichloroethane (10.179)+
-Dibromochloromethane (10.381)
-1,3-Dichloropropane (10.497)
-1,2-Dibromoethane (10.639)
-2-Hexanone (10.970)
-Chlorobenzene-D5 (11.262)+
-1,1,1,2-Tetrachloroethane (11.369)
m+p-Xylenes (11.510)
-o-Xylene (11.999)+
-Bromoform (12.137)
-Isopropylbenzene (12.369)
-P-Bromofluorobenzene (12.671)
-Bromobenzene (12.777)+
-1,1,2,2-Tetrachloroethane (12.928)+
-1,2,3-Trichloropropane (13.060)+
-4-Chlorotoluene (13.188)
-tert-Butylbenzene (13.423)
-1,2,4-Trimethylbenzene (13.504)
-sec-Butylbenzene (13.626)
-P-Isopropyltoluene (13.693)
-1,3-Dichlorobenzene (13.941)+
-N-Butylbenzene (14.266)
-1,2-Dichlorobenzene (14.417)
-1,2-Dibromo-3-Chloropropa (15.323)+
-Hexachlorobutadiene (16.089)+
-Naphthalene (16.458)
-1,2,3-Trichlorobenzene (16.667)

Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\SB895a.D

Date : 21-SEP-2023 16:01

Client ID:

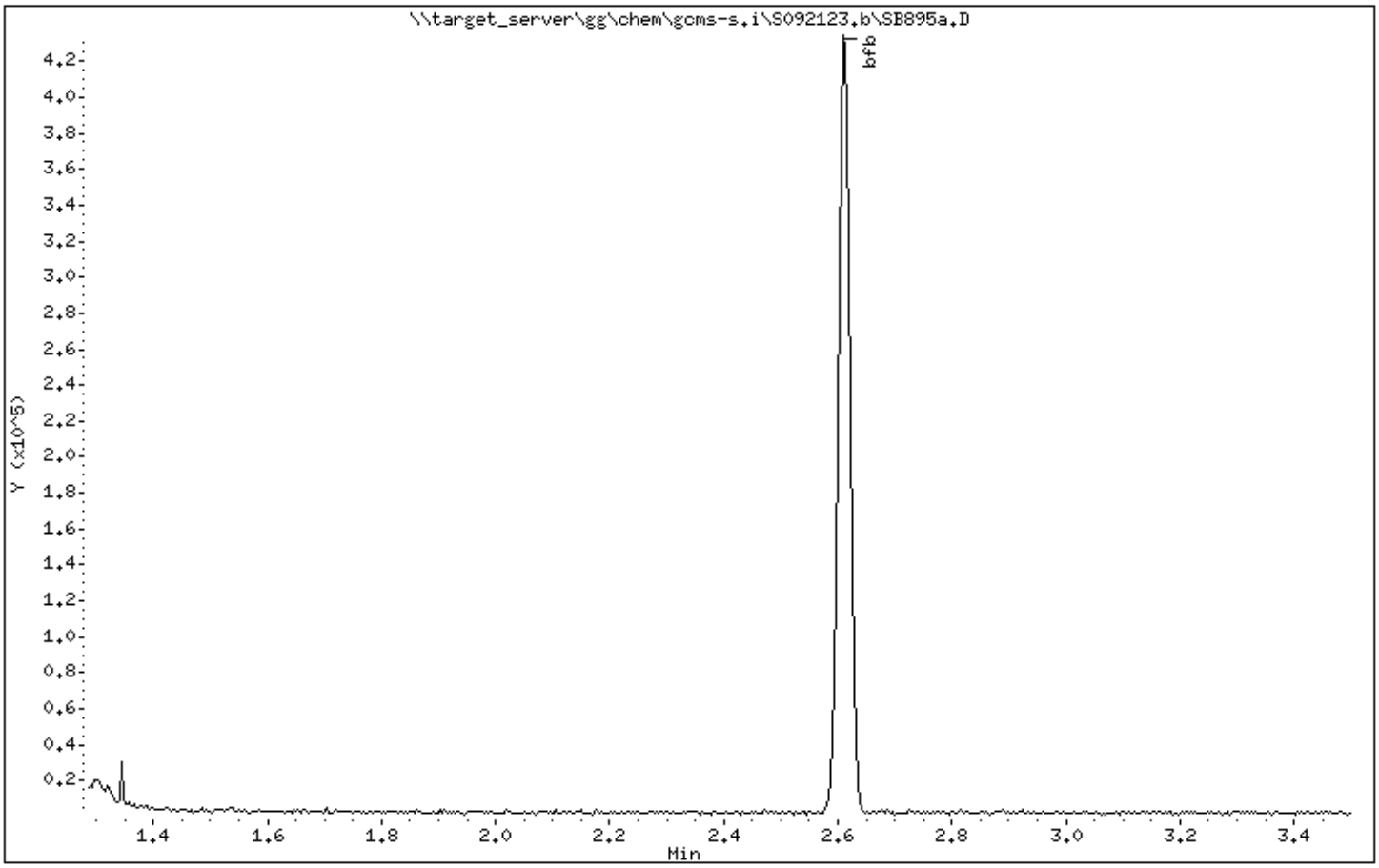
Instrument: gcms-s.i

Sample Info: WG342876-12,SQ4965

Operator: JSS

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-s.i\S092123.b\SB895a.D

Date : 21-SEP-2023 16:01

Client ID:

Instrument: gcms-s.i

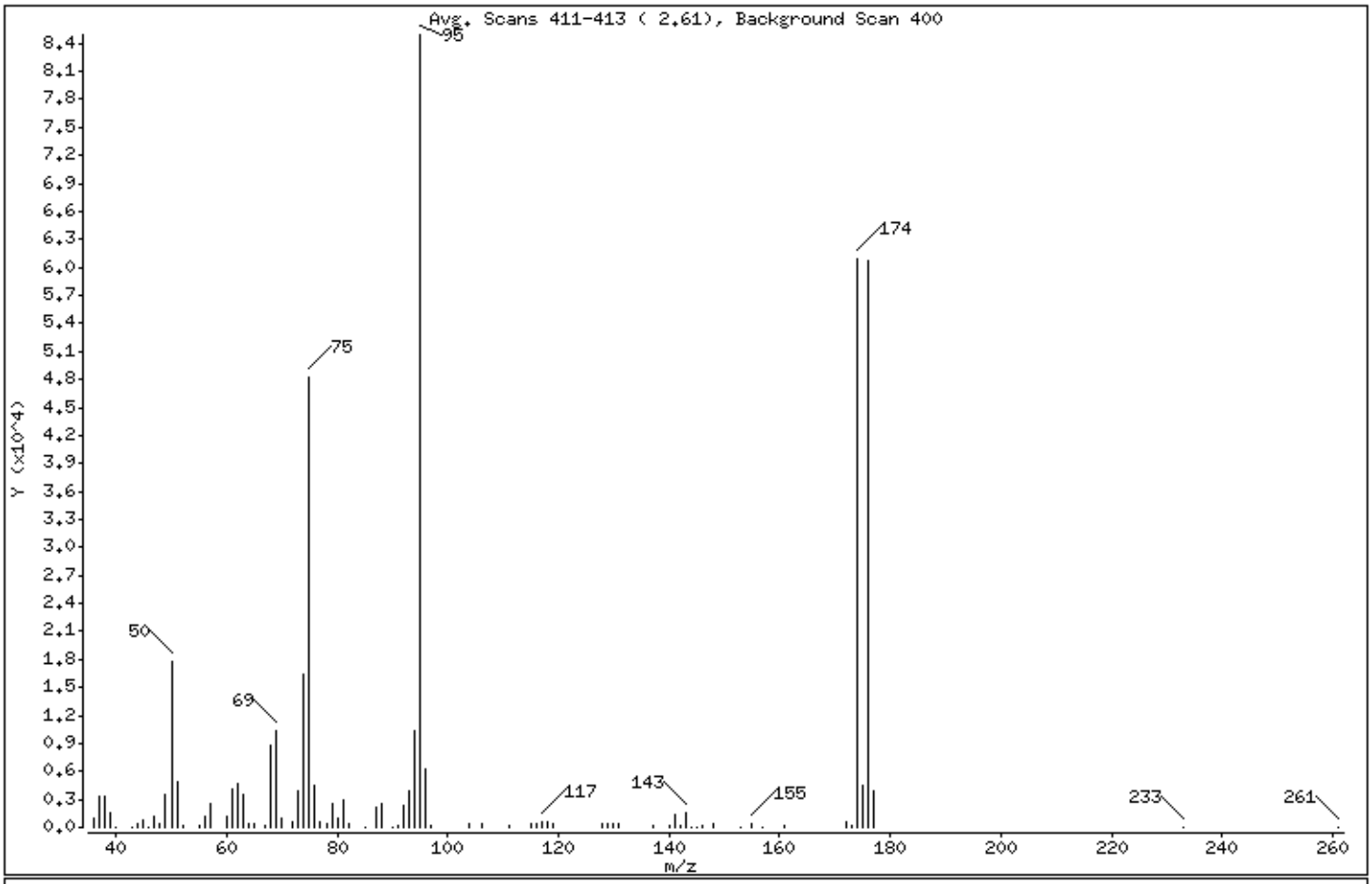
Sample Info: WG342876-12,SQ4965

Operator: JSS

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.83
75	30.00 - 60.00% of mass 95	56.67
96	5.00 - 9.00% of mass 95	7.27
173	Less than 2.00% of mass 174	0.17 (0.23)
174	Greater than 50.00% of mass 95	71.78
175	5.00 - 9.00% of mass 174	5.39 (7.51)
176	95.00 - 101.00% of mass 174	71.41 (99.49)
177	5.00 - 9.00% of mass 176	4.59 (6.43)

Date : 21-SEP-2023 16:01

Client ID: Instrument: gcms-s.i

Sample Info: WG342876-12,SQ4965

Operator: JSS

Column phase: RTX-VMS Column diameter: 0.18

Data File: SB895a.D
Spectrum: Avg. Scans 411-413 (2.61), Background Scan 400
Location of Maximum: 95.00
Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	957	63.00	3593	90.00	83	140.00	101
37.00	3379	64.00	418	91.00	273	141.00	1334
38.00	3278	65.00	417	92.00	2407	142.00	187
39.00	1486	67.00	115	93.00	3990	143.00	1492
40.00	37	68.00	8853	94.00	10340	144.00	68
43.00	78	69.00	10350	95.00	84928	145.00	75
44.00	358	70.00	891	96.00	6177	146.00	246
45.00	785	72.00	634	97.00	271	148.00	450
46.00	79	73.00	3958	104.00	418	153.00	78
47.00	1077	74.00	16464	106.00	404	155.00	313
48.00	430	75.00	48128	111.00	109	157.00	71
49.00	3596	76.00	4438	115.00	384	161.00	112
50.00	17688	77.00	536	116.00	375	172.00	553
51.00	4855	78.00	293	117.00	585	173.00	142
52.00	185	79.00	2560	118.00	545	174.00	60960
55.00	197	80.00	915	119.00	421	175.00	4577
56.00	1134	81.00	2860	128.00	386	176.00	60648
57.00	2577	82.00	474	129.00	334	177.00	3902
60.00	1165	85.00	79	130.00	343	233.00	68
61.00	4152	87.00	2224	131.00	308	261.00	69
62.00	4670	88.00	2570	137.00	168		

Data File: \\target_server\gg\chem\gcms-s.i\S092223.b\SB896a.D

Date : 22-SEP-2023 09:00

Client ID:

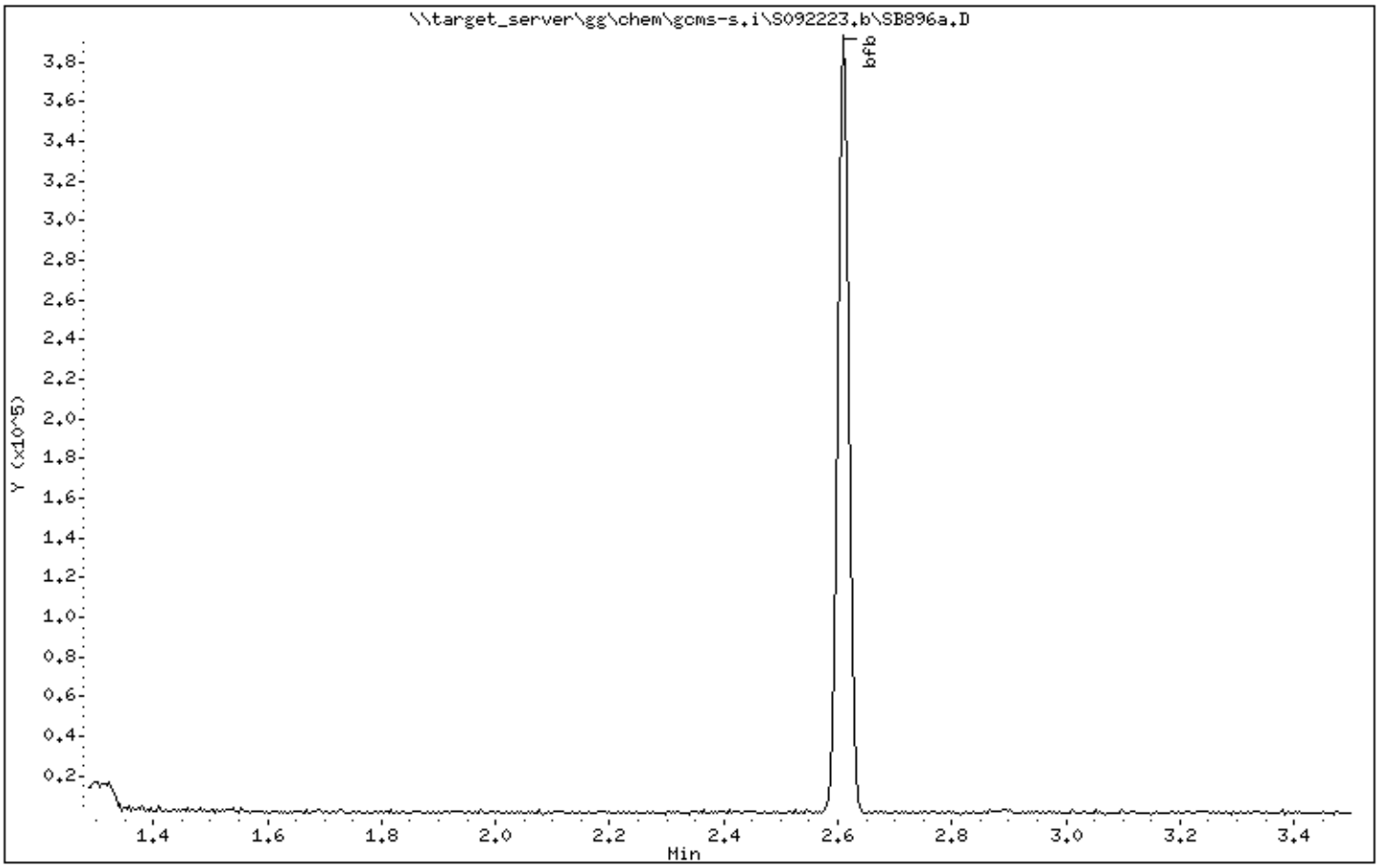
Instrument: gcms-s.i

Sample Info: WG342943-3,SQ5042

Operator: JSS

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-s.i\S092223.b\SB896a.D

Date : 22-SEP-2023 09:00

Client ID:

Instrument: gcms-s.i

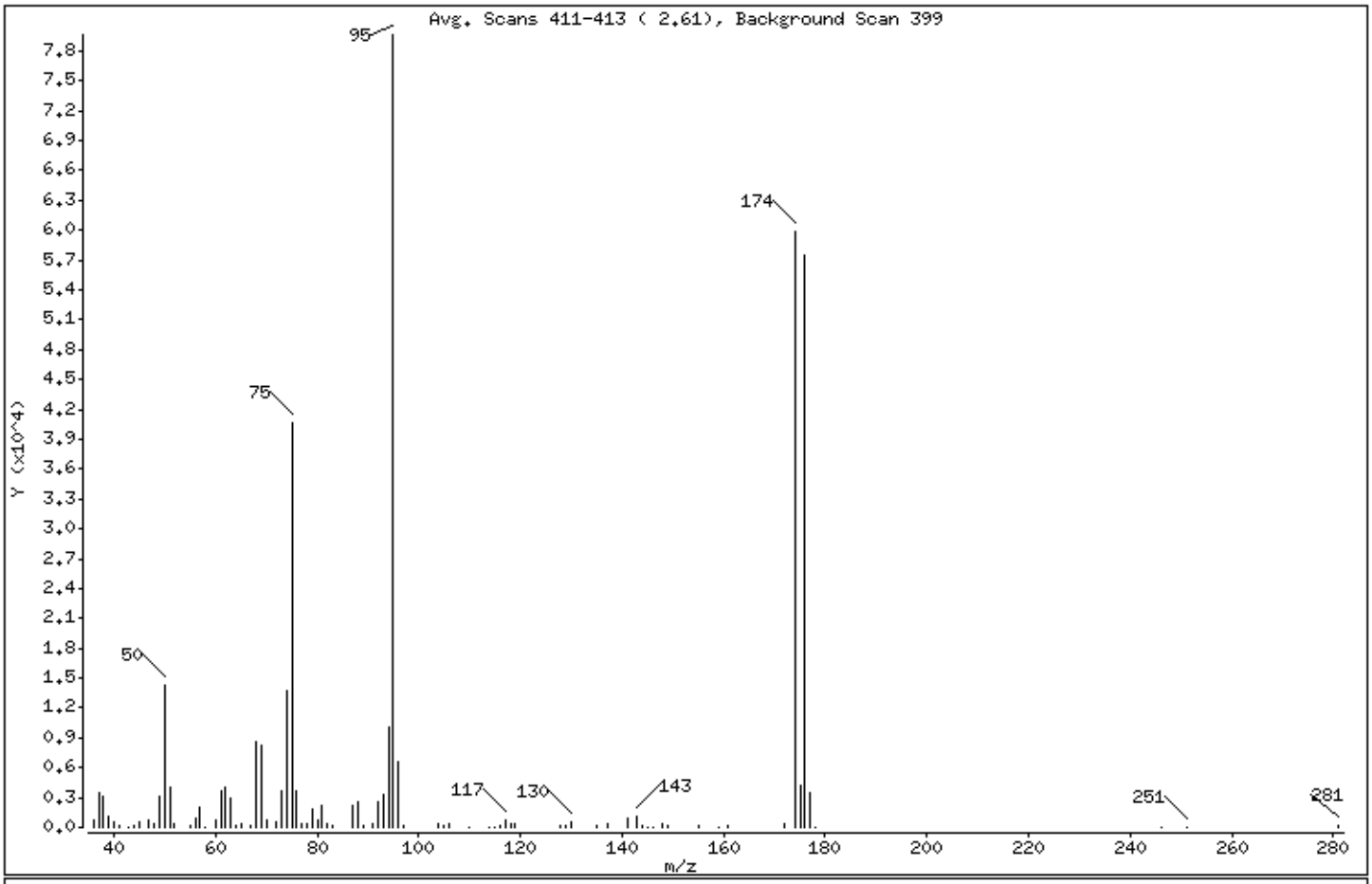
Sample Info: WG342943-3,SQ5042

Operator: JSS

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.85
75	30.00 - 60.00% of mass 95	51.01
96	5.00 - 9.00% of mass 95	8.16
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	75.27
175	5.00 - 9.00% of mass 174	5.17 (6.87)
176	95.00 - 101.00% of mass 174	72.07 (95.76)
177	5.00 - 9.00% of mass 176	4.35 (6.04)

Date : 22-SEP-2023 09:00

Client ID:

Instrument: gcms-s.i

Sample Info: WG342943-3,SQ5042

Operator: JSS

Column phase: RTX-VMS

Column diameter: 0.18

Data File: SB896a.D
Spectrum: Avg. Scans 411-413 (2.61), Background Scan 399
Location of Maximum: 95.00
Number of points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	806	63.00	2974	91.00	433	141.00	994
37.00	3441	64.00	238	92.00	2522	143.00	1080
38.00	3121	65.00	318	93.00	3349	144.00	126
39.00	1084	67.00	124	94.00	10148	145.00	79
40.00	518	68.00	8580	95.00	79632	146.00	69
41.00	159	69.00	8227	96.00	6499	148.00	279
43.00	72	70.00	745	97.00	252	149.00	127
44.00	109	72.00	536	104.00	442	155.00	205
45.00	551	73.00	3620	105.00	130	159.00	75
47.00	651	74.00	13700	106.00	282	161.00	129
48.00	396	75.00	40624	110.00	78	172.00	407
49.00	3153	76.00	3685	114.00	72	174.00	59936
50.00	14214	77.00	452	115.00	80	175.00	4120
51.00	4084	78.00	342	116.00	184	176.00	57392
52.00	353	79.00	1916	117.00	792	177.00	3465
55.00	215	80.00	704	118.00	399	178.00	72
56.00	1004	81.00	2116	119.00	368	246.00	74
57.00	2074	82.00	452	128.00	235	251.00	90
58.00	69	83.00	149	129.00	195	281.00	125
60.00	817	87.00	2177	130.00	501		
61.00	3671	88.00	2636	135.00	118		
62.00	3946	89.00	105	137.00	306		

Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\SB900a.D

Date : 28-SEP-2023 09:01

Client ID:

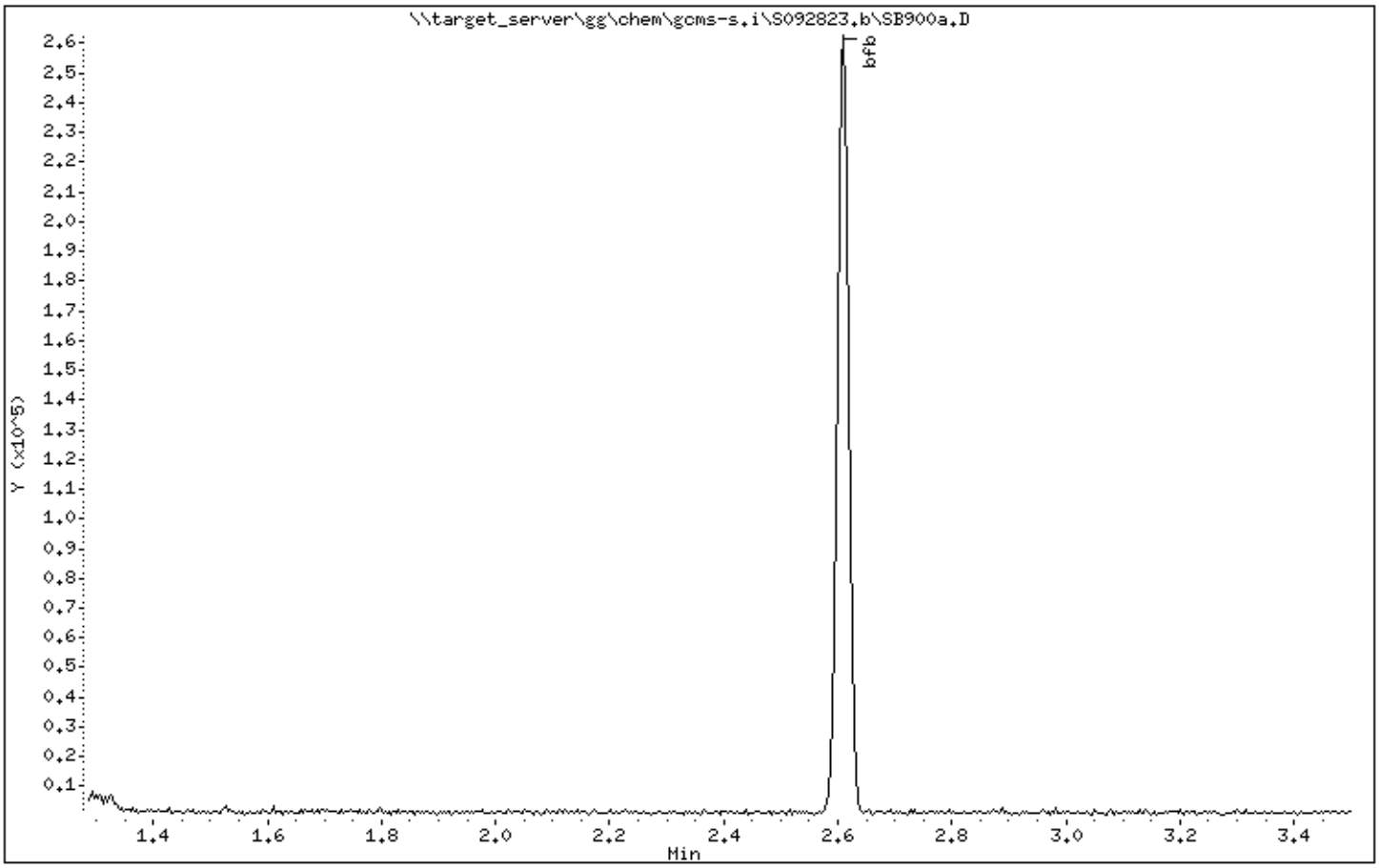
Instrument: gcms-s.i

Sample Info: WG343210-3,SQ4965

Operator: CR

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\SB900a.D

Date : 28-SEP-2023 09:01

Client ID:

Instrument: gcms-s.i

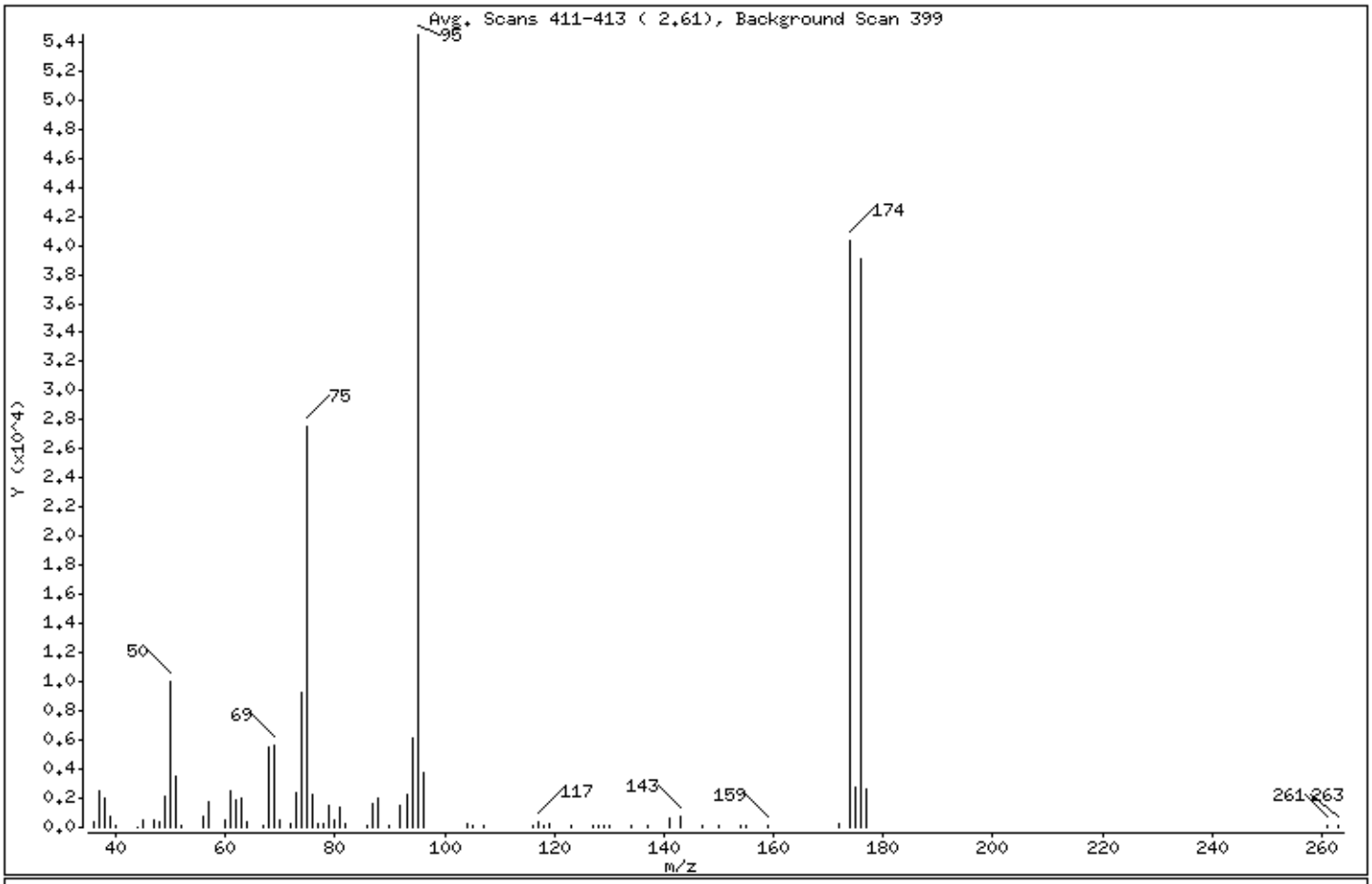
Sample Info: WG343210-3,SQ4965

Operator: CR

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.37
75	30.00 - 60.00% of mass 95	50.59
96	5.00 - 9.00% of mass 95	6.96
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	73.93
175	5.00 - 9.00% of mass 174	5.09 (6.88)
176	95.00 - 101.00% of mass 174	71.70 (96.98)
177	5.00 - 9.00% of mass 176	4.85 (6.77)

Date : 28-SEP-2023 09:01

Client ID:

Instrument: gcms-s.i

Sample Info: WG343210-3,SQ4965

Operator: CR

Column phase: RTX-VMS

Column diameter: 0.18

Data File: SB900a.D
Spectrum: Avg. Scans 411-413 (2.61), Background Scan 399
Location of Maximum: 95.00
Number of points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	330	64.00	348	90.00	70	137.00	88
37.00	2457	67.00	145	92.00	1558	141.00	581
38.00	2044	68.00	5538	93.00	2312	143.00	696
39.00	779	69.00	5580	94.00	6184	147.00	85
40.00	138	70.00	544	95.00	54472	150.00	100
44.00	33	72.00	211	96.00	3790	154.00	79
45.00	549	73.00	2351	104.00	233	155.00	79
47.00	456	74.00	9292	105.00	77	159.00	148
48.00	379	75.00	27560	107.00	89	172.00	214
49.00	2116	76.00	2276	116.00	84	174.00	40272
50.00	10005	77.00	273	117.00	315	175.00	2772
51.00	3446	78.00	284	118.00	171	176.00	39056
52.00	175	79.00	1503	119.00	247	177.00	2644
56.00	724	80.00	484	123.00	72	261.00	74
57.00	1701	81.00	1418	127.00	120	263.00	79
60.00	514	82.00	215	128.00	118		
61.00	2556	86.00	154	129.00	77		
62.00	1926	87.00	1648	130.00	142		
63.00	2046	88.00	2033	134.00	67		

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5109
Lab ID: WG343210-2
Client ID: Method Blank
Matrix: AQ
Lab File ID: S6667.D

Sample Date: N/A
Extract Date: 28-SEP-23
Extracted By: CR
Extraction Method: SW846 5030C
Lab Prep Batch: WG343210

Report Date: 13-OCT-23
Analysis Date: 28-SEP-23
Analyst: CR
Analysis Method: SW846 8260C
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	0.75	ug/L	1	1	1.0	0.37	0.75
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.25	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Chloroform	U	0.75	ug/L	1	1	1.0	0.37	0.75
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.25	0.50
1,1-Dichloroethene	U	0.75	ug/L	1	1	1.0	0.37	0.75
2-Butanone	U	3.0	ug/L	1	5	5.0	1.5	3.0
Tetrachloroethene	U	1.0	ug/L	1	2	2.0	0.50	1.0
Trichloroethene	U	0.75	ug/L	1	1	1.0	0.37	0.75
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.50	1.0
1,2-Dichloroethane-D4		91.4	%					
Toluene-D8		99.1	%					
p-Bromofluorobenzene		97.9	%					
Dibromofluoromethane		93.5	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6667.D
Report Date: 13-Oct-2023 15:16

Katahdin Analytical Services

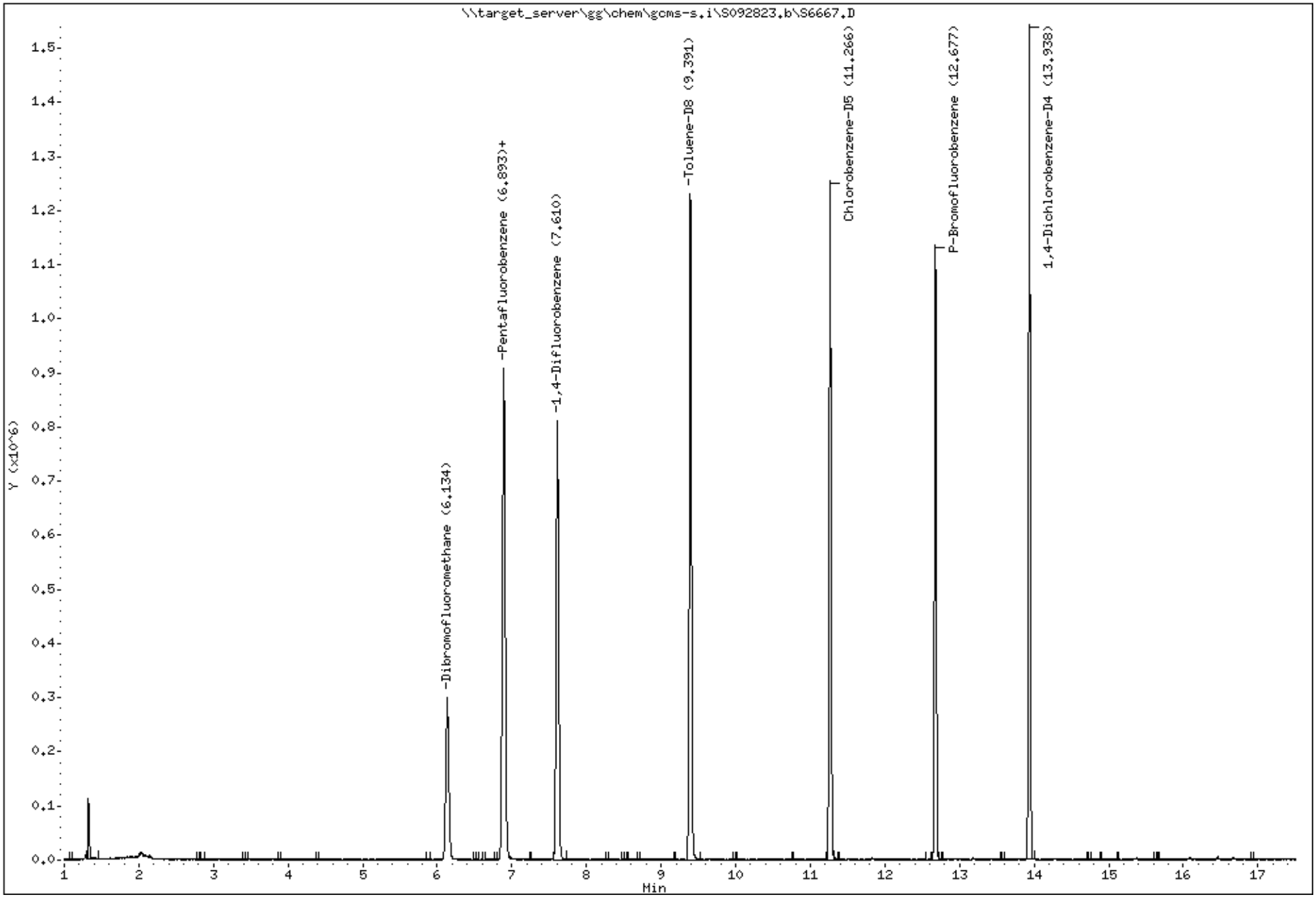
Data file : \\target_server\gg\chem\gcms-s.i\S092823.b\S6667.D
Lab Smp Id: WG343210-2
Inj Date : 28-SEP-2023 11:22
Operator : CR   Inst ID: gcms-s.i
Smp Info : WG343210-2,SQ5109
Misc Info : WG343210,WG342876-4,SQ5109-1
Comment   : SW846 5030C
Method   : \\target_server\gg\chem\gcms-s.i\S092823.b\S826(09)23.m
Meth Date : 11-Oct-2023 15:10 croy   Quant Type: ISTD
Cal Date : 21-SEP-2023 16:50   Cal File: S6548.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOA-WS

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 35 Dibromofluoromethane	113	6.134	6.134	(0.890)	254388	46.7457	46.7	
* 41 Pentafluorobenzene	168	6.893	6.887	(1.000)	489514	50.0000		
$ 42 1,2-Dichloroethane-D4	65	6.896	6.896	(1.000)	369513	45.6906	45.7	
* 48 1,4-Difluorobenzene	114	7.610	7.613	(1.000)	800414	50.0000		
$ 56 Toluene-D8	98	9.391	9.388	(1.234)	929137	49.5613	49.6	
* 67 Chlorobenzene-D5	117	11.265	11.263	(1.000)	744330	50.0000		
$ 76 P-Bromofluorobenzene	95	12.677	12.671	(1.666)	379494	48.9325	48.9	
* 91 1,4-Dichlorobenzene-D4	152	13.937	13.934	(1.000)	391820	50.0000		

Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6667.D
Date : 28-SEP-2023 11:22
Client ID:
Instrument: gcms-s.i
Sample Info: WG343210-2,SQ5109



Katahdin Analytical Services SQ5109 Page 99 of 681

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5109
Lab ID: WG343210-7
Client ID: TCLP Blank
Matrix: AQ
Lab File ID: S6668.D

Sample Date: N/A
Extract Date: 28-SEP-23
Extracted By: CR
Extraction Method: 5030/1311
Lab Prep Batch: WG343210

Report Date: 13-OCT-23
Analysis Date: 28-SEP-23
Analyst: CR
Analysis Method: SW846 8260C
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	15	ug/L	20	1	20.	7.4	15.
Carbon Tetrachloride	U	10	ug/L	20	1	20.	5.0	10.
Chlorobenzene	U	10	ug/L	20	1	20.	5.0	10.
Chloroform	U	15	ug/L	20	1	20.	7.4	15.
1,2-Dichloroethane	U	10	ug/L	20	1	20.	5.0	10.
1,1-Dichloroethene	U	15	ug/L	20	1	20.	7.4	15.
2-Butanone	U	60	ug/L	20	5	100	30.	60.
Tetrachloroethene	U	20	ug/L	20	2	40.	10.	20.
Trichloroethene	U	15	ug/L	20	1	20.	7.4	15.
Vinyl Chloride	U	20	ug/L	20	2	40.	10.	20.
1,2-Dichloroethane-D4		92.7	%					
Toluene-D8		99.8	%					
p-Bromofluorobenzene		97.7	%					
Dibromofluoromethane		93.2	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6668.D
Report Date: 13-Oct-2023 15:16

Katahdin Analytical Services

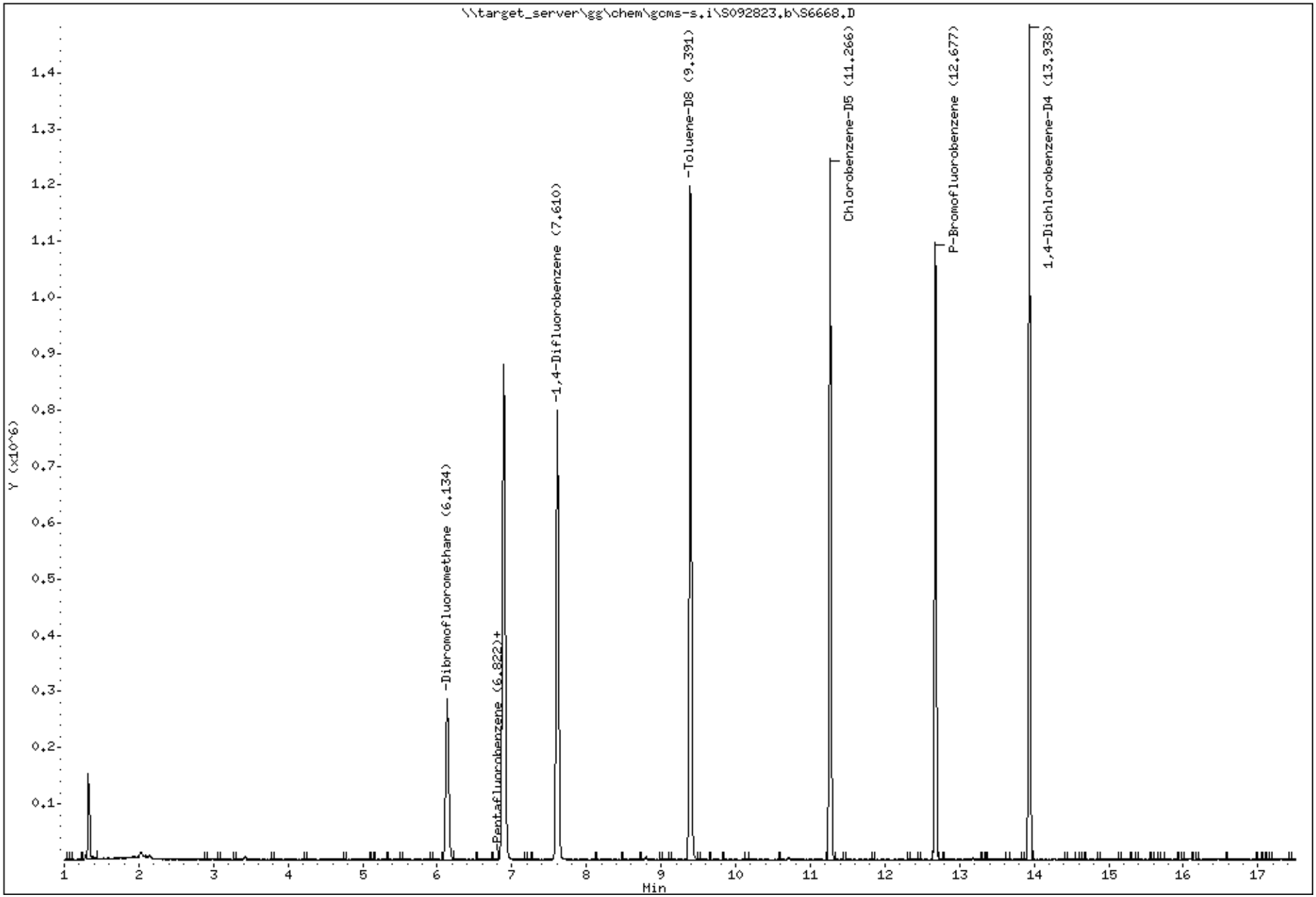
Data file : \\target_server\gg\chem\gcms-s.i\S092823.b\S6668.D
Lab Smp Id: WG343210-7
Inj Date : 28-SEP-2023 11:49
Operator : CR   Inst ID: gcms-s.i
Smp Info : WG343210-7,SQ5109
Misc Info : WG343210,WG342876-4,SQ5109-1
Comment   : 5030/1311
Method   : \\target_server\gg\chem\gcms-s.i\S092823.b\S826(09)23.m
Meth Date : 11-Oct-2023 15:10 croy   Quant Type: ISTD
Cal Date : 21-SEP-2023 16:50   Cal File: S6548.D
Als bottle: 6
Dil Factor: 20.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOA-WS

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 35 Dibromofluoromethane	113	6.130	6.134	(0.890)	247080	46.5812	46.6	
* 41 Pentafluorobenzene	168	6.886	6.887	(1.000)	477131	50.0000		
$ 42 1,2-Dichloroethane-D4	65	6.896	6.896	(1.001)	365502	46.3675	46.4	
* 48 1,4-Difluorobenzene	114	7.610	7.613	(1.000)	777778	50.0000		
$ 56 Toluene-D8	98	9.391	9.388	(1.234)	909409	49.9208	49.9	
* 67 Chlorobenzene-D5	117	11.265	11.263	(1.000)	727888	50.0000		
$ 76 P-Bromofluorobenzene	95	12.677	12.671	(1.666)	368266	48.8667	48.9	
* 91 1,4-Dichlorobenzene-D4	152	13.937	13.934	(1.000)	377167	50.0000		

Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6668.D
Date : 28-SEP-2023 11:49
Client ID:
Instrument: gcms-s.i
Sample Info: WG343210-7,SQ5109



Katahdin Analytical Services SQ5109 Page 102 of 681

Katahdin
ANALYTICAL SERVICES

LCS/LCSD Recovery Report

LCS ID: WG343210-1
LCSD ID: WG343210-6
SDG: SQ5109
LCS File ID: S6664.D

Extract Date: 28-SEP-23
Extracted By: CR
Extraction Method: SW846 5030C
Lab Prep Batch: WG343210
LCSD File ID: S6665.D

Analysis Date: 28-SEP-23
Analyst: CR
Analysis Method: SW846 8260C
Matrix: AQ
Report Date: 13-OCT-23

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Benzene	50.0	47.7	95.4	47.9	95.8	ug/L	0	20	79-120
Carbon Tetrachloride	50.0	53.5	107.	52.7	105.	ug/L	2	20	72-136
Chlorobenzene	50.0	49.4	98.8	49.0	98.0	ug/L	1	20	82-118
Chloroform	50.0	43.8	87.6	43.5	87.0	ug/L	1	20	79-124
1,2-Dichloroethane	50.0	45.7	91.4	46.2	92.4	ug/L	1	20	73-128
1,1-Dichloroethene	50.0	47.5	95.0	47.1	94.2	ug/L	1	20	71-131
2-Butanone	50.0	44.0	88.0	43.3	86.6	ug/L	2	20	56-143
Tetrachloroethene	50.0	52.5	105.	52.0	104.	ug/L	1	20	74-129
Trichloroethene	50.0	45.4	90.8	46.4	92.8	ug/L	2	20	79-123
Vinyl Chloride	50.0	46.2	92.4	46.8	93.6	ug/L	1	20	58-137
1,2-Dichloroethane-D4			86.4		85.4				81-118
Toluene-D8			98.6		99.6				89-112
p-Bromofluorobenzene			99.2		100.				85-114
Dibromofluoromethane			91.2		90.6				80-119

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Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6664.D
Report Date: 13-Oct-2023 15:16

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S092823.b\S6664.D
Lab Smp Id: WG343210-1
Inj Date : 28-SEP-2023 10:02
Operator : CR   Inst ID: gcms-s.i
Smp Info : WG343210-1,SQ5109
Misc Info : WG343210,WG342876-4,SQ5109-1
Comment   : SW846 5030C
Method   : \\target_server\gg\chem\gcms-s.i\S092823.b\S826(09)23.m
Meth Date : 11-Oct-2023 15:10 croy   Quant Type: ISTD
Cal Date : 21-SEP-2023 16:50   Cal File: S6548.D
Als bottle: 2   QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.459	1.459	(0.212)	334199	64.4344	64.4	
2	Chloromethane	50	1.635	1.639	(0.238)	275575	45.2288	45.2	
3	Vinyl chloride	62	1.706	1.710	(0.248)	280109	46.1601	46.2	
4	Bromomethane	94	1.999	1.999	(0.290)	127489	41.8471	41.8	
5	Chloroethane	64	2.115	2.118	(0.307)	157161	43.3049	43.3	
6	Trichlorofluoromethane	101	2.253	2.253	(0.327)	519287	50.3884	50.4	
7	Diethyl Ether	59	2.558	2.559	(0.372)	196313	44.4608	44.5	
8	1,1-Dichloroethene	96	2.761	2.761	(0.401)	226812	47.5222	47.5	
9	Carbon Disulfide	76	2.790	2.790	(0.405)	672200	65.5254	65.5(R)	
10	Freon-113	151	2.812	2.810	(0.408)	191418	50.6960	50.7	
11	Iodomethane	142	2.912	2.916	(0.423)	223404	57.6374	57.6	
12	Acrolein	56	3.121	3.125	(0.453)	137035	280.628	281	
13	Allyl Chloride	41	3.291	3.292	(0.478)	303038	46.6022	46.6	
14	Methylene Chloride	84	3.420	3.417	(0.497)	250676	45.5541	45.6	
15	Acetone	43	3.471	3.472	(0.504)	73253	50.0559	50.0	
16	trans-1,2-Dichloroethene	96	3.619	3.620	(0.526)	247765	45.6276	45.6	
17	Methyl Acetate	43	3.642	3.642	(0.529)	149741	38.6930	38.7	
18	Methyl tert-butyl ether	73	3.764	3.774	(0.547)	708732	48.1583	48.2	
19	Acetonitrile	41	4.082	4.080	(0.593)	235533	396.997	397	
20	Tertiary-butyl alcohol	59	3.909	3.912	(0.568)	75047	190.918	191	
21	Di-isopropyl ether	45	4.330	4.333	(0.629)	659902	44.7257	44.7	
22	Chloroprene	53	4.452	4.453	(0.647)	420583	46.9568	47.0	
23	1,1-Dichloroethane	63	4.484	4.488	(0.651)	479100	44.6132	44.6	
24	Acrylonitrile	52	4.555	4.559	(0.661)	333315	214.986	215	

Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6664.D
Report Date: 13-Oct-2023 15:16

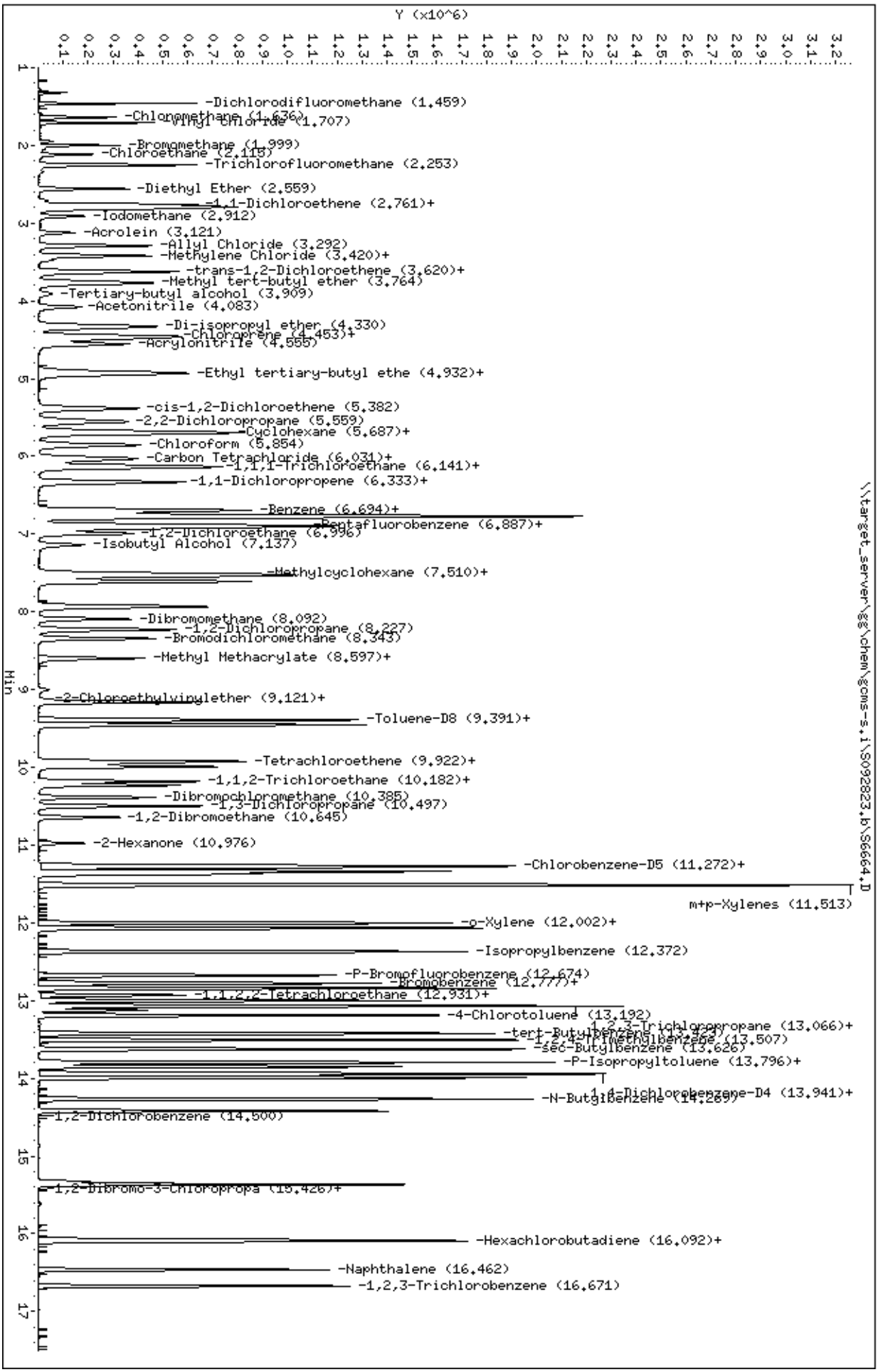
							CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 Ethyl tertiary-butyl ether	59	4.928	4.925	(0.716)	673959	46.0506	46.0	
	26 Vinyl Acetate	43	4.934	4.935	(0.648)	544541	60.5637	60.6	
	27 cis-1,2-Dichloroethene	96	5.381	5.385	(0.781)	271677	46.6583	46.6	
	28 2,2-Dichloropropane	77	5.558	5.552	(0.807)	410751	51.8066	51.8	
	29 Cyclohexane	56	5.687	5.690	(0.826)	423971	52.9782	53.0	
	30 Bromochloromethane	128	5.696	5.703	(0.827)	131747	52.2749	52.3	
	31 Chloroform	83	5.854	5.854	(0.850)	508760	43.8309	43.8	
	32 Carbon Tetrachloride	117	6.031	6.031	(0.793)	427752	53.4638	53.5	
	33 Tetrahydrofuran	42	6.076	6.063	(0.882)	60627	47.5939	47.6	
	34 1,1,1-Trichloroethane	97	6.140	6.141	(0.892)	489209	44.6329	44.6	
$	35 Dibromofluoromethane	113	6.130	6.134	(0.890)	271792	45.5918	45.6	
	36 1,1-Dichloropropene	75	6.333	6.337	(0.832)	387108	48.9108	48.9	
	37 2-Butanone	43	6.323	6.324	(0.918)	89628	44.0396	44.0	
	38 Benzene	78	6.693	6.697	(0.880)	1000554	47.7112	47.7	
	39 Propionitrile	54	6.735	6.735	(0.978)	293743	416.335	416	
	40 Methacrylonitrile	41	6.770	6.774	(0.983)	1347790	424.462	424	
*	41 Pentafluorobenzene	168	6.886	6.887	(1.000)	536241	50.0000		
$	42 1,2-Dichloroethane-D4	65	6.896	6.896	(1.001)	382848	43.2144	43.2	
	43 Tertiary-amyl methyl ether	73	6.918	6.922	(1.005)	586407	44.5463	44.5	
	44 1,2-Dichloroethane	62	6.995	6.996	(0.919)	437319	45.6830	45.7	
	45 Isobutyl Alcohol	43	7.137	7.141	(1.036)	139046	786.902	787	
	46 Methylcyclohexane	83	7.510	7.510	(1.091)	468115	52.7575	52.8	
	47 Trichloroethene	95	7.542	7.542	(0.991)	271278	45.3832	45.4	
*	48 1,4-Difluorobenzene	114	7.609	7.613	(1.000)	859891	50.0000		
	49 Dibromomethane	93	8.092	8.092	(1.063)	169888	48.3904	48.4	
	50 1,2-Dichloropropane	63	8.227	8.227	(1.081)	242746	45.9634	46.0	
	51 Bromodichloromethane	83	8.343	8.343	(1.096)	384298	48.6244	48.6	
	52 Methyl Methacrylate	41	8.597	8.597	(1.130)	192122	42.7724	42.8	
	53 1,4-Dioxane	88	8.606	8.603	(1.131)	51725	937.547	938	
	54 2-Chloroethylvinylether	63	9.121	9.115	(1.199)	11796	54.1158	54.1	
	55 cis-1,3-dichloropropene	75	9.159	9.160	(1.204)	440467	53.3052	53.3	
$	56 Toluene-D8	98	9.391	9.388	(1.234)	992644	49.2865	49.3	
	57 Toluene	91	9.452	9.452	(1.242)	1090476	47.5156	47.5	
	58 Tetrachloroethene	164	9.921	9.922	(0.881)	222673	52.4982	52.5	
	59 4-methyl-2-pentanone	43	9.957	9.954	(1.308)	179468	41.4641	41.5(R)	
	60 trans-1,3-Dichloropropene	75	9.992	9.992	(1.313)	435854	55.3401	55.3	
	61 1,1,2-Trichloroethane	97	10.182	10.179	(1.338)	234438	48.4247	48.4	
	62 Ethyl Methacrylate	69	10.230	10.234	(1.344)	322318	45.1370	45.1	
	63 Dibromochloromethane	129	10.384	10.385	(0.922)	287331	50.3217	50.3	
	64 1,3-Dichloropropane	76	10.497	10.497	(0.932)	434695	46.5669	46.6	
	65 1,2-Dibromoethane	107	10.645	10.642	(1.399)	248030	48.4593	48.4	
	66 2-Hexanone	43	10.976	10.970	(0.974)	122760	40.6084	40.6	
*	67 Chlorobenzene-D5	117	11.265	11.263	(1.000)	788472	50.0000		
	68 Chlorobenzene	112	11.281	11.282	(1.001)	723556	49.3502	49.4	
	69 Ethylbenzene	106	11.336	11.336	(1.006)	393507	49.8461	49.8	
	70 m+p-Xylenes	106	11.513	11.513	(1.022)	968606	99.7328	99.7	
	71 1,1,1,2-Tetrachloroethane	131	11.368	11.372	(1.009)	277105	50.1141	50.1	
	72 o-Xylene	106	12.002	12.002	(1.065)	465507	53.0065	53.0	
	73 Styrene	104	12.066	12.066	(1.071)	750789	52.3981	52.4	
	74 Bromoform	173	12.076	12.073	(1.072)	189397	48.5036	48.5	
	75 Isopropylbenzene	105	12.371	12.369	(0.888)	1215020	48.1183	48.1	
$	76 P-Bromofluorobenzene	95	12.674	12.671	(1.665)	413271	49.6020	49.6	
	77 Bromobenzene	156	12.780	12.777	(0.917)	302188	48.5808	48.6	
	78 cis-1,4-Dichloro-2-Butene	53	12.767	12.767	(0.916)	106547	50.3118	50.3	

Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6664.D
Report Date: 13-Oct-2023 15:16

			QUANT SIG					CONCENTRATIONS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	79	N-Propylbenzene	91	12.841	12.841	(0.921)	1503383	48.4662	48.5	
	80	1,1,2,2-Tetrachloroethane	83	12.931	12.931	(0.928)	288921	44.3954	44.4	
	81	2-Chlorotoluene	91	12.998	12.999	(0.933)	906078	48.2040	48.2	
	82	1,2,3-Trichloropropane	75	13.066	13.063	(0.937)	264401	42.8739	42.9	
	83	1,3,5-Trimethylbenzene	105	13.072	13.070	(0.938)	1078113	49.3677	49.4	
	84	trans-1,4-Dichloro-2-Butene	53	13.127	13.121	(0.942)	102955	51.9695	52.0	
	85	4-Chlorotoluene	91	13.191	13.189	(0.946)	968180	48.8539	48.8	
	86	tert-Butylbenzene	119	13.423	13.423	(0.963)	942381	50.8923	50.9	
	87	1,2,4-Trimethylbenzene	105	13.506	13.504	(0.969)	1118630	51.3412	51.3	
	88	sec-Butylbenzene	105	13.625	13.626	(0.978)	1369998	52.3163	52.3	
	89	P-Isopropyltoluene	119	13.796	13.793	(0.990)	1199265	52.8193	52.8	
	90	1,3-Dichlorobenzene	146	13.847	13.848	(0.994)	576455	48.4770	48.5	
*	91	1,4-Dichlorobenzene-D4	152	13.937	13.934	(1.000)	431192	50.0000		
	92	1,4-Dichlorobenzene	146	13.953	13.951	(1.001)	575709	46.5879	46.6	
	93	1,2,3-Trimethylbenzene	105	13.992	13.989	(1.004)	1150354	50.0933	50.1	
	94	N-Butylbenzene	91	14.268	14.266	(1.024)	1111766	50.9274	50.9	
	95	1,2-Dichlorobenzene	146	14.423	14.420	(1.035)	548831	48.7088	48.7	
	96	1,2-Dibromo-3-Chloropropane	157	15.333	15.327	(1.100)	52618	45.0127	45.0	
	97	1,3,5-Trichlorobenzene	180	15.368	15.362	(1.103)	459456	52.7776	52.8	
	98	Hexachlorobutadiene	225	16.079	16.073	(1.154)	211261	49.7795	49.8	
	99	1,2,4-Trichlorobenzene	180	16.098	16.091	(1.155)	407796	50.7659	50.8	
	100	Naphthalene	128	16.461	16.462	(1.181)	881205	45.9777	46.0	
	101	1,2,3-Trichlorobenzene	180	16.673	16.671	(1.196)	374799	49.4489	49.4	
M	104	1,2-Dichloroethylene (total)	96				519442	92.2860	92.3	
M	105	Xylenes (total)	106				1434113	152.739	153	
M	106	Total Alkylbenzenes	100				8323536	356.130	356	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6664.D
Date : 28-SEP-2023 10:02
Client ID:
Sample Info: WG343210-1,SQ5109
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-s.i
Operator: CR
Column diameter: 0.18
\\target_server\gg\chem\gcms-s.i\S092823.b\S6664.D
Y (x10^6)
Min
-Dichlorodifluoromethane (1.459)
-Chloromethane (1.636)
-Vinyl Chloride (1.707)
-Bromomethane (1.999)
-Chloroethane (2.119)
-Trichlorofluoromethane (2.253)
-Diethyl Ether (2.559)
-1,1-Dichloroethene (2.761)+
-Iodomethane (2.912)
-Acrolein (3.121)
-Allyl Chloride (3.292)
-Methylene Chloride (3.420)+
-trans-1,2-Dichloroethene (3.620)+
-Methyl tert-butyl ether (3.764)
-Tertiary-butyl alcohol (3.909)
-Acetonitrile (4.083)
-Di-isopropyl ether (4.330)
-Chloroprene (4.453)+
-Acrylonitrile (4.555)
-Ethyl tertiary-butyl ethe (4.932)+
-cis-1,2-Dichloroethene (5.382)
-2,2-Dichloropropane (5.559)
-Cyclohexane (5.687)+
-Chloroform (5.854)
-Carbon Tetrachloride (6.031)+
-1,1,1-Trichloroethane (6.141)+
-1,1-Dichloropropene (6.333)+
-Benzene (6.694)+
-Pentafluorobenzene (6.887)+
-1,2-Dichloroethane (6.996)
-Isobutyl Alcohol (7.137)
-Methylcyclohexane (7.510)+
-Dibromomethane (8.092)
-1,2-Dichloropropane (8.227)
-Bromodichloromethane (8.343)
-Methyl Methacrylate (8.597)+
-2-Chloroethylvinylether (9.121)+
-Toluene-D8 (9.391)+
-Tetrachloroethene (9.922)+
-1,1,2-Trichloroethane (10.182)+
-Dibromochloromethane (10.385)
-1,3-Dichloropropane (10.497)
-1,2-Dibromoethane (10.645)
-2-Hexanone (10.976)
-Chlorobenzene-D5 (11.272)+
m+p-Xylenes (11.513)
-o-Xylene (12.002)+
-Isopropylbenzene (12.372)
-P-Bromofluorobenzene (12.674)
-Bromobenzene (12.777)+
-1,1,2,2-Tetrachloroethane (12.931)+
-4-Chlorotoluene (13.192)
-1,2,3-Trichloropropane (13.066)+
-tert-Butylbenzene (13.422)
-1,2,4-Trimethylbenzene (13.507)
-sec-Butylbenzene (13.626)
-P-Isopropyltoluene (13.796)+
-1,4-Dichlorobenzene-D4 (13.941)+
-N-Butylbenzene (14.269)
-1,2-Dichlorobenzene (14.500)
-1,2-Dibromo-3-Chloropropa (15.426)+
-Hexachlorobutadiene (16.092)+
-Naphthalene (16.462)
-1,2,3-Trichlorobenzene (16.671)

Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6665.D
Report Date: 13-Oct-2023 15:16

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S092823.b\S6665.D
Lab Smp Id: WG343210-6
Inj Date : 28-SEP-2023 10:29
Operator : CR   Inst ID: gcms-s.i
Smp Info : WG343210-6,SQ5109
Misc Info : WG343210,WG342876-4,SQ5109-1
Comment   : SW846 5030C
Method   : \\target_server\gg\chem\gcms-s.i\S092823.b\S826(09)23.m
Meth Date : 11-Oct-2023 15:10 croy   Quant Type: ISTD
Cal Date : 21-SEP-2023 16:50   Cal File: S6548.D
Als bottle: 3   QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOA-WS

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.462	1.459	(0.212)	332119	64.8817	64.9	
2	Chloromethane	50	1.639	1.639	(0.238)	276153	45.9240	45.9	
3	Vinyl chloride	62	1.710	1.710	(0.248)	280590	46.8519	46.8	
4	Bromomethane	94	2.002	1.999	(0.291)	116594	38.9084	38.9	
5	Chloroethane	64	2.118	2.118	(0.308)	152431	42.5580	42.6	
6	Trichlorofluoromethane	101	2.253	2.253	(0.327)	508210	49.9669	50.0	
7	Diethyl Ether	59	2.558	2.559	(0.372)	196987	45.2045	45.2	
8	1,1-Dichloroethene	96	2.764	2.761	(0.401)	222079	47.1469	47.1	
9	Carbon Disulfide	76	2.793	2.790	(0.406)	660083	65.1967	65.2	
10	Freon-113	151	2.812	2.810	(0.408)	188324	50.5373	50.5	
11	Iodomethane	142	2.915	2.916	(0.423)	183516	47.9737	48.0	
12	Acrolein	56	3.124	3.125	(0.454)	133129	276.241	276	
13	Allyl Chloride	41	3.295	3.292	(0.478)	283955	44.2460	44.2	
14	Methylene Chloride	84	3.423	3.417	(0.497)	246784	45.4409	45.4	
15	Acetone	43	3.478	3.472	(0.505)	69373	48.0326	48.0	
16	trans-1,2-Dichloroethene	96	3.623	3.620	(0.526)	242480	45.2459	45.2	
17	Methyl Acetate	43	3.642	3.642	(0.529)	150539	39.4145	39.4	
18	Methyl tert-butyl ether	73	3.767	3.774	(0.547)	689363	47.4627	47.5	
19	Acetonitrile	41	4.082	4.080	(0.593)	233032	397.985	398	
20	Tertiary-butyl alcohol	59	3.918	3.912	(0.569)	67091	172.939	173	
21	Di-isopropyl ether	45	4.336	4.333	(0.630)	661540	45.4307	45.4	
22	Chloroprene	53	4.455	4.453	(0.647)	421534	47.6864	47.7	
23	1,1-Dichloroethane	63	4.484	4.488	(0.651)	473319	44.6587	44.6	

Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6665.D
Report Date: 13-Oct-2023 15:16

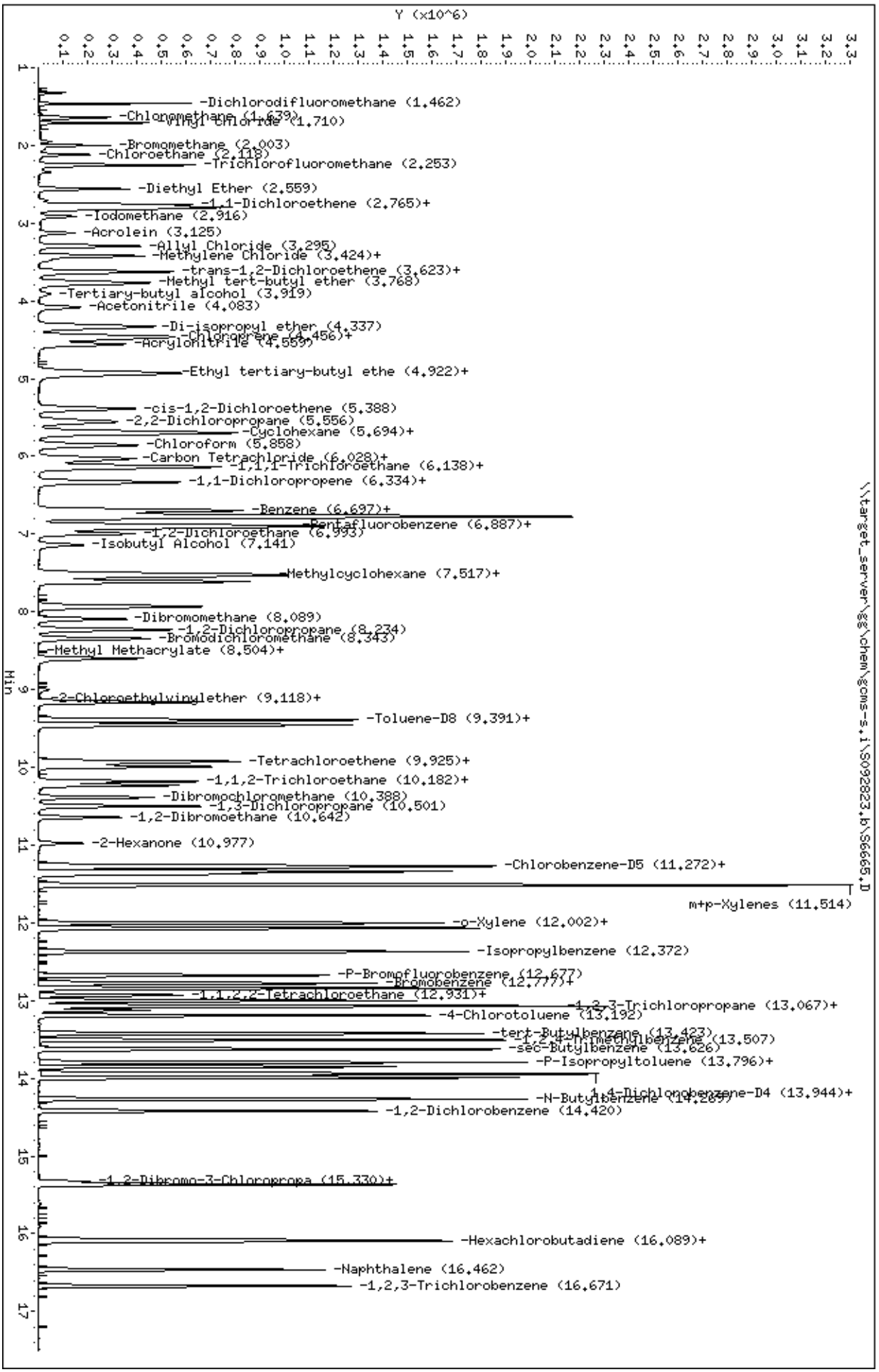
			QUANT SIG					CONCENTRATIONS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	24	Acrylonitrile	52	4.558	4.559	(0.662)	327140	213.799	214	
	25	Ethyl tertiary-butyl ether	59	4.922	4.925	(0.715)	649874	44.9932	45.0	
	26	Vinyl Acetate	43	4.941	4.935	(0.649)	536372	60.8795	60.9	
	27	cis-1,2-Dichloroethene	96	5.388	5.385	(0.782)	265809	46.2553	46.2	
	28	2,2-Dichloropropane	77	5.555	5.552	(0.807)	365639	46.7277	46.7	
	29	Cyclohexane	56	5.693	5.690	(0.827)	418218	52.9516	53.0	
	30	Bromochloromethane	128	5.703	5.703	(0.828)	125867	50.6034	50.6	
	31	Chloroform	83	5.857	5.854	(0.851)	498720	43.5352	43.5	
	32	Carbon Tetrachloride	117	6.028	6.031	(0.792)	413536	52.7478	52.7	
	33	Tetrahydrofuran	42	6.070	6.063	(0.881)	58805	46.7752	46.8	
	34	1,1,1-Trichloroethane	97	6.137	6.141	(0.891)	487390	45.0560	45.0	
$	35	Dibromofluoromethane	113	6.137	6.134	(0.891)	266460	45.2896	45.3	
	36	1,1-Dichloropropene	75	6.333	6.337	(0.832)	380907	49.1151	49.1	
	37	2-Butanone	43	6.330	6.324	(0.919)	86993	43.3111	43.3	
	38	Benzene	78	6.696	6.697	(0.880)	984050	47.8873	47.9	
	39	Propionitrile	54	6.738	6.735	(0.979)	299566	430.213	430	
	40	Methacrylonitrile	41	6.774	6.774	(0.984)	1351520	431.275	431	
*	41	Pentafluorobenzene	168	6.886	6.887	(1.000)	529230	50.0000		
$	42	1,2-Dichloroethane-D4	65	6.896	6.896	(1.001)	373245	42.6886	42.7	
	43	Tertiary-amyl methyl ether	73	6.918	6.922	(1.005)	575670	44.3100	44.3	
	44	1,2-Dichloroethane	62	6.992	6.996	(0.918)	433212	46.1828	46.2	
	45	Isobutyl Alcohol	43	7.140	7.141	(1.037)	143881	821.792	822	
	46	Methylcyclohexane	83	7.516	7.510	(1.092)	457554	52.2503	52.2	
	47	Trichloroethene	95	7.539	7.542	(0.990)	271568	46.3642	46.4	
*	48	1,4-Difluorobenzene	114	7.613	7.613	(1.000)	842597	50.0000		
	49	Dibromomethane	93	8.089	8.092	(1.063)	164822	47.9110	47.9	
	50	1,2-Dichloropropane	63	8.233	8.227	(1.082)	244330	47.2128	47.2	
	51	Bromodichloromethane	83	8.343	8.343	(1.096)	375917	48.5402	48.5	
	52	Methyl Methacrylate	41	8.597	8.597	(1.129)	193322	43.9229	43.9	
	53	1,4-Dioxane	88	8.603	8.603	(1.130)	52623	973.401	973	
	54	2-Chloroethylvinylether	63	9.118	9.115	(1.198)	4622	21.6393	21.6(R)	
	55	cis-1,3-dichloropropene	75	9.159	9.160	(1.203)	435219	53.7511	53.8	
$	56	Toluene-D8	98	9.391	9.388	(1.234)	982654	49.7919	49.8	
	57	Toluene	91	9.455	9.452	(1.242)	1075051	47.8049	47.8	
	58	Tetrachloroethene	164	9.925	9.922	(0.881)	220610	51.9767	52.0	
	59	4-methyl-2-pentanone	43	9.954	9.954	(1.307)	178836	42.1661	42.2	
	60	trans-1,3-Dichloropropene	75	9.992	9.992	(1.313)	427143	55.3472	55.3	
	61	1,1,2-Trichloroethane	97	10.182	10.179	(1.337)	230946	48.6825	48.7	
	62	Ethyl Methacrylate	69	10.230	10.234	(1.344)	325841	46.5669	46.6	
	63	Dibromochloromethane	129	10.388	10.385	(0.922)	281040	49.1867	49.2	
	64	1,3-Dichloropropane	76	10.500	10.497	(0.932)	436352	46.7128	46.7	
	65	1,2-Dibromoethane	107	10.642	10.642	(1.398)	248258	49.4994	49.5	
	66	2-Hexanone	43	10.976	10.970	(0.974)	120368	39.7902	39.8	
*	67	Chlorobenzene-D5	117	11.265	11.263	(1.000)	789005	50.0000		
	68	Chlorobenzene	112	11.282	11.282	(1.001)	718633	48.9813	49.0	
	69	Ethylbenzene	106	11.339	11.336	(1.007)	383417	48.5352	48.5	
	70	m+p-Xylenes	106	11.513	11.513	(1.022)	958646	98.6406	98.6	
	71	1,1,1,2-Tetrachloroethane	131	11.372	11.372	(1.009)	268531	48.5307	48.5	
	72	o-Xylene	106	12.002	12.002	(1.065)	458957	52.2254	52.2	
	73	Styrene	104	12.066	12.066	(1.071)	741337	51.7035	51.7	
	74	Bromoform	173	12.076	12.073	(1.072)	188849	48.3306	48.3	
	75	Isopropylbenzene	105	12.372	12.369	(0.888)	1206746	48.4294	48.4	
$	76	P-Bromofluorobenzene	95	12.674	12.671	(1.665)	409944	50.2125	50.2	
	77	Bromobenzene	156	12.783	12.777	(0.917)	299771	48.8364	48.8	

Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6665.D
Report Date: 13-Oct-2023 15:16

			QUANT SIG					CONCENTRATIONS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	78	cis-1,4-Dichloro-2-Butene	53	12.764	12.767	(0.916)	102312	48.9578	49.0	
	79	N-Propylbenzene	91	12.844	12.841	(0.922)	1478217	48.2920	48.3	
	80	1,1,2,2-Tetrachloroethane	83	12.931	12.931	(0.928)	294096	45.7947	45.8	
	81	2-Chlorotoluene	91	13.002	12.999	(0.933)	899427	48.4898	48.5	
	82	1,2,3-Trichloropropane	75	13.066	13.063	(0.937)	266391	43.7741	43.8	
	83	1,3,5-Trimethylbenzene	105	13.072	13.070	(0.938)	1067332	49.5273	49.5	
	84	trans-1,4-Dichloro-2-Butene	53	13.127	13.121	(0.942)	97976	50.1173	50.1	
	85	4-Chlorotoluene	91	13.191	13.189	(0.946)	949513	48.5524	48.6	
	86	tert-Butylbenzene	119	13.426	13.423	(0.963)	929144	50.8482	50.8	
	87	1,2,4-Trimethylbenzene	105	13.503	13.504	(0.969)	1100496	51.1841	51.2	
	88	sec-Butylbenzene	105	13.625	13.626	(0.978)	1347332	52.1385	52.1	
	89	P-Isopropyltoluene	119	13.796	13.793	(0.990)	1174617	52.4253	52.4	
	90	1,3-Dichlorobenzene	146	13.851	13.848	(0.994)	578120	49.2669	49.3	
*	91	1,4-Dichlorobenzene-D4	152	13.937	13.934	(1.000)	425504	50.0000		
	92	1,4-Dichlorobenzene	146	13.953	13.951	(1.001)	572833	46.9749	47.0	
	93	1,2,3-Trimethylbenzene	105	13.992	13.989	(1.004)	1134789	50.0760	50.1	
	94	N-Butylbenzene	91	14.269	14.266	(1.024)	1081953	50.2242	50.2	
	95	1,2-Dichlorobenzene	146	14.420	14.420	(1.035)	550093	49.4734	49.5	
	96	1,2-Dibromo-3-Chloropropane	157	15.330	15.327	(1.100)	55911	48.4691	48.5	
	97	1,3,5-Trichlorobenzene	180	15.365	15.362	(1.102)	456494	53.1383	53.1	
	98	Hexachlorobutadiene	225	16.076	16.073	(1.153)	206776	49.3740	49.4	
	99	1,2,4-Trichlorobenzene	180	16.095	16.091	(1.155)	410516	51.7876	51.8	
	100	Naphthalene	128	16.465	16.462	(1.181)	875607	46.2964	46.3	
	101	1,2,3-Trichlorobenzene	180	16.674	16.671	(1.196)	380874	50.9221	50.9	
M	104	1,2-Dichloroethylene (total)	96				508289	91.5013	91.5	
M	105	Xylenes (total)	106				1417603	150.866	151	
M	106	Total Alkylbenzenes	100				8179091	354.640	355	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Data File: \\target_server\gg\chem\gcms-s.i\S092823.b\S6665.D
Date : 28-SEP-2023 10:29
Client ID:
Sample Info: WG343210-6,SQ5109
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-s.i
Operator: CR
Column diameter: 0.18
\\target_server\gg\chem\gcms-s.i\S092823.b\S6665.D
Y (x10^6)
Min
-Dichlorodifluoromethane (1.462)
-Chloromethane (1.639)
-Vinyl Chloride (1.710)
-Bromomethane (2.003)
-Chloroethane (2.118)
-Trichlorofluoromethane (2.253)
-Diethyl Ether (2.559)
-1,1-Dichloroethene (2.765)+
-Iodomethane (2.916)
-Acrolein (3.125)
-Allyl Chloride (3.295)
-Methylene Chloride (3.424)+
-trans-1,2-Dichloroethene (3.623)+
-Methyl tert-butyl ether (3.768)
-Tertiary-butyl alcohol (3.919)
-Acetonitrile (4.083)
-Di-isopropyl ether (4.337)
-Chloroprene (4.456)+
-Acrylonitrile (4.559)
-Ethyl tertiary-butyl ethe (4.922)+
-cis-1,2-Dichloroethene (5.388)
-2,2-Dichloropropane (5.556)
-Cyclohexane (5.694)+
-Chloroform (5.858)
-Carbon Tetrachloride (6.028)+
-1,1,1-Trichloroethane (6.138)+
-1,1-Dichloropropene (6.334)+
-Benzene (6.697)+
-Pentafluorobenzene (6.887)+
-1,2-Dichloroethane (6.993)
-Isobutyl Alcohol (7.141)
-Methylcyclohexane (7.517)+
-Dibromomethane (8.089)
-1,2-Dichloropropane (8.234)
-Bromodichloromethane (8.343)
-Methyl Methacrylate (8.504)+
-2-Chloroethylvinylether (9.118)+
-Toluene-D8 (9.391)+
-Tetrachloroethene (9.925)+
-1,1,2-Trichloroethane (10.182)+
-Dibromochloromethane (10.388)
-1,3-Dichloropropane (10.501)
-1,2-Dibromoethane (10.642)
-2-Hexanone (10.977)
-Chlorobenzene-D5 (11.272)+
m+p-Xylenes (11.514)
-o-Xylene (12.002)+
-Isopropylbenzene (12.372)
-P-Bromofluorobenzene (12.677)
-Bromobenzene (12.777)+
-1,1,2,2-Tetrachloroethane (12.931)+
-1,2,3-Trichloropropane (13.067)+
-4-Chlorotoluene (13.192)
-tert-Butylbenzene (13.423)
-1,2,4-Trimethylbenzene (13.507)
-sec-Butylbenzene (13.626)
-P-Isopropyltoluene (13.796)+
-1,4-Dichlorobenzene-D4 (13.944)+
-N-Butylbenzene (14.269)
-1,2-Dichlorobenzene (14.420)
-1,2-Dibromo-3-Chloropropa (15.330)+
-Hexachlorobutadiene (16.089)+
-Naphthalene (16.462)
-1,2,3-Trichlorobenzene (16.671)

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES

VOLATILE TCLP EXTRACTION BENCH SHEET FOR SAMPLE TCLP - Blk

Balance ID: S/N 5012 Vessel ID: A

Dry Weight Determination 100% ✓ <0.5%_____ %Wet Solids_____

_____Refer to non-volatile TCLP extraction sheet, page #_____ for _____-_____

Sample description: Sand Homogeneous ✓ Non-homogeneous_____

1)	Weight Container 1 + Residue	_____g	7)	Weight of Filter	_____g
2)	Weight Container 1 + Waste	_____g	8)	Wt of Filter and Wet Solid	_____g
3)	Weight of Waste ((2) - (1))	_____g	9)	Wt of Wet Solid Phase ((8) - (7))	_____g
4)	Weight of Container 2	_____g	10)	%Wet Solids (100*(9)/(3))	_____
5)	Weight of Container 2 and Filtrate	_____g	11)	Wt of Filter + Solid Phase Dry	_____g
6)	Wt(g)/Vol(mL) of Filtrate ((5) - (4))	___/___	12)	Wt of Solid Phase Dry ((11) - (7))	_____g
			13)	%Dry Solids (100*(12)/(3))	_____

Analyst 9/27/23 Date CR

Extraction Fluid Preparation and pH Check

Refer to the Non-Volatile TCLP/SPLP Extraction Fluid Preparation and Use Logbook located in the Metals Preparation Laboratory for the Fluid #1 Preparation documentation.

Analyst CR Date 9/25/23 Extraction Fluid Batch # DST 1613

pH of Fluid Today 4.886 pH Criteria: 4.88 – 4.98 pH Meter ID: Orion 520A S/N 7442

Extract Use

Filter Paper Lot #: 1150606-3003-T

___ <0.5% Solids (Filter adequate sample volume) _____mL Filtered.

___ 100% Solids

10.12 g of Waste added to 200 mL of fluid (fluid volume = 20 times wt of solid sample)

___ Free Liquid present (See Equation A for amount of waste to filter)

(A) X = Desired weight of solid phase on filter * 100/ (%Wet Solid)

1)	Weight Container 1 + Waste		_____g
2)	Weight Container 1 + Residue		_____g
3)	Weight of Waste Charged to ZHE ((1) - (2), or weighed directly into vessel)		_____g
4)	Weight of Pre-extraction Collection Device		_____g
5)	Weight of Device and Filtrate		_____g
6)	Weight ((5) - (4))/Volume (mL) of Filtrate	6a_____/_____6b	
7)	_____g of Solid Phase was added to 8)_____mL of Fluid #1.		
	((3) - (6a))	(20 * (7a))	

Pressure before Tumbling 40 Pressure after Tumbling: 40 Rotation at 30 ± 2 RPM Verified ✓

Pressure at time of Filtering (AQ samples)_____

Time/Date Started Tumbling 9/27/23 13:30 Time/Date Stopped: 9/28/23 8:30 Hours Extracted 19 (18 ±2)

Room Temp Start: 21.3 Room Temp. Min. 21.2 Room Temp. Max. 22.5 (23± 2°C)

Was pre-extracted filtrate recombined with extract _____YES ✓ NO

If "NO" enter volume of filtrate (6) 20

Amount of Fluid (8) _____

Analyst CR Date Filtered: 9/28/23 Time Filtered: 8:41

KATAHDIN ANALYTICAL SERVICES

VOLATILE TCLP EXTRACTION BENCH SHEET FOR SAMPLE SQ5109 - 1A

Balance ID: S/N 5012 Vessel ID: H

Dry Weight Determination 100% ✓ <0.5%_____ %Wet Solids_____

_____Refer to non-volatile TCLP extraction sheet, page #_____ for _____-_____

Sample description: Soil/Clay Homogeneous ✓ Non-homogeneous_____

1)	Weight Container 1 + Residue	_____g	7)	Weight of Filter	_____g
2)	Weight Container 1 + Waste	_____g	8)	Wt of Filter and Wet Solid	_____g
3)	Weight of Waste ((2) - (1))	_____g	9)	Wt of Wet Solid Phase ((8) - (7))	_____g
4)	Weight of Container 2	_____g	10)	%Wet Solids (100*(9)/(3))	_____
5)	Weight of Container 2 and Filtrate	_____g	11)	Wt of Filter + Solid Phase Dry	_____g
6)	Wt(g)/Vol(mL) of Filtrate ((5) - (4))	___/___	12)	Wt of Solid Phase Dry ((11) - (7))	_____g
			13)	%Dry Solids (100*(12)/(3))	_____

Analyst CR Date 9/27/23

Extraction Fluid Preparation and pH Check

Refer to the Non-Volatile TCLP/SPLP Extraction Fluid Preparation and Use Logbook located in the Metals Preparation Laboratory for the Fluid #1 Preparation documentation.

Analyst CD Date 9/25/23 Extraction Fluid Batch # PBT813

pH of Fluid Today 4.88 pH Criteria: 4.88 – 4.98 pH Meter ID: Orion 520A S/N 7442

Extract Use Filter Paper Lot #: 115016le-3003-T

___ <0.5% Solids (Filter adequate sample volume) _____mL Filtered.

___ 100% Solids

13.62 g of Waste added to 200 mL of fluid (fluid volume = 20 times wt of solid sample)

___ Free Liquid present (See Equation A for amount of waste to filter)

(A) X = Desired weight of solid phase on filter * 100/ (%Wet Solid)

1)	Weight Container 1 + Waste		_____g
2)	Weight Container 1 + Residue		_____g
3)	Weight of Waste Charged to ZHE ((1) - (2), or weighed directly into vessel)		_____g
4)	Weight of Pre-extraction Collection Device		_____g
5)	Weight of Device and Filtrate		_____g
6)	Weight ((5) - (4))/Volume (mL) of Filtrate	6a_____/_____	6b
7)	_____g of Solid Phase was added to 8)_____mL of Fluid #1.		
	((3) - (6a)) (20 * (7a))		

Pressure before Tumbling 40 Pressure after Tumbling: 40 Rotation at 30 ± 2 RPM Verified ✓

Pressure at time of Filtering (AQ samples)_____

Time/Date Started Tumbling 9/27/23 13:30 Time/Date Stopped: 9/28/23 8:30 Hours Extracted 19 (18 ±2)

Room Temp Start: 21.3 Room Temp. Min. 21.2 Room Temp. Max. 22.5 (23± 2°C)

Was pre-extracted filtrate recombined with extract _____YES ✓ NO

If "NO" enter volume of filtrate (6) 120

Amount of Fluid (8) _____

Analyst CR Date Filtered: 9/28/23 Time Filtered: 9:15

16.01

WG

GCMS-S INSTRUMENT RUNLOG

KATAHDIN ANALYTICAL SERVICES

DATE/TIME OF BFB INJECTION: 9-21-23

Method - Check One:	8260 ✓	8260 - 10 mL	8260 SIM	624	524
STD IDs: * BFB STD: V2788	CAL STD: V2796	XTRAs STD: V2797	LCS/MS STD: V2800	Vial Lot # 2795FL-PC-W	
SURR & IS STD: V2799	MeOH Lot #: —			pH Paper Lot #: —	KI Paper Lot # —

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	Prep Method 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	pH	TRC	COMMENTS
WG342876 - 12	SB895	1	-1	VOA BFB	✓						Y	JH	NA	NA	
Rinse	S6547	1	1	S826(09)&3							N				
VSTD050 -4	48	1	2								Y				
020 -3	49	1	3								Y				Curve OK after except for 1,4-Dioxane & CEVE 384 upto 100
010 -8	50	1	4								Y				
005 -2	51	1	5								Y				
001 -1	52	1	6								Y				
150 -6	53	1	7								Y				
100 -5	54	1	8								Y				
075 -7	55	1	9								Y				
LCS/Ind -9	56	1	10								N				%rec ↑ multiples ↓ Run ICV1 Next Batch
LCSD	57	1	11								N				
VBLK	58	1	12								N				
WG342876 - 11	59	1	13								N				
Rinse	60	1	1												

9/22/23

* Refer to page 1 for standard preparation instructions.

WG

9:00

KATAHDIN ANALYTICAL SERVICES

GCMS-S INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 09-22-23

Method - Check One:	8260 ✓	8260 - 10 mL	8260 SIM	624	524
STD IDs: * BFB STD: V2788	CAL STD: V2796	XTRAs STD: V2797	LCS/MS STD: V2800	Vial Lot # 2795FL-PCW	
SURR & IS STD: V2799	MeOH Lot #: —			pH Paper Lot #: 021005	KI Paper Lot # —

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	Prep Method: 5030	5035	1311	Criteria: KAS	DoD	QAPP	Y/N	ANALYST	pH	TRC	COMMENTS
WG342943-3	SB896	—	—	VOABCB	✓						Y	CR	N/A	N/A	
V8td 050 -4	S65761	1	1	S826(09)23							Y				
LCS/Inn -1/-8	62	1	2								Y				Inn (-8) "A" Blk
VBlank	63	1	3								N				Target Hits
VBlank -2	64	1	4								Y		↓		
SQ4987-12 A	65	1	5						D		Y		L2		
-1 A	66	1	6								Y				
-2 A	67	1	7								Y				
-4 A	68	1	8								Y				
-5 A	69	1	9								Y				
-6 A	70	1	10								Y				
-7 A	71	1	11								Y				
-8 A	72	1	12								Y				
-9 A	73	1	13								Y				
-10 A	74	1	14								Y				
-11 A	75	1	15								Y				
-3DL A	76	10	16								Y				4MA/Blank
-13DL A	77	10	17								N				1 not needed
-13 B	78	1	18								Y				
-3 B	79	1	19								Y				
-6 -1MS B	80	1	20								Y				~~9/22/23~~ 9/23/23
-7 ↓ -1MSD C	81	1	21						↓		Y		↓		↓
CCV -5	82	1	22								Y		N/A		9:20 ✓
CCV	83	1	23								N				not needed
CCV	84	1	24								N				↓
Rinse	↓ 85	1	25	↓	↓						—	↓	↓	↓	

* Refer to page 1 for standard preparation instructions.

WG

*CR 9/28/23

9:01

KATAHDIN ANALYTICAL SERVICES

GCMS-S INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 09-28-23

Method - Check One:	8260 ✓	8260 - 10 mL	8260 SIM	624	524
STD IDs: * BFB STD: V28002	CAL STD: V28003	XTRAs STD: V28004	LCS/MS STD: V28000	Vial Lot # 2795FL-PCN	
SURR & IS STD: V27999	MeOH Lot #: —			pH Paper Lot #: 920005	KI Paper Lot # —

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	Prep Method: 5030	5035	1311	Criteria: KAS	DoD	QAPP	Y/N	ANALYST	pH	TRC	COMMENTS
WG743210-3	SB 900	—	—	VOA8ES	✓						Y	CR	N/A	N/A	
VStd 000 -4	S60603	1	1	S826(09)23							Y				
LCS -1	64	1	2								Y				
LCSD -6	65	1	3								Y				
VBlank	66	1	4								N				Target Hits
VBlank -2	67	1	5								Y				
TCLPBlank -7	68	20	6				✓				Y		↓		2mL/38mL - PBT1813
SQ5170-5A	69	1	7					✓			Y		C2		
SQ5131-9DL A	70	2	8						✓		Y				20mL/20mL
-14A	71	1	9								Y				
-15A	72	1	10								Y				
SQ5158-2G	73	1	11					✓			Y		↓		
SQ4965-1DL	74	20	12				✓		✓		Y		N/A		2mL/38mL
-2DL	75	20	13								Y				
-3DL	76	20	14								Y				
-4DL	77	20	15								Y				
SQ5109-1DL	78	20	16				↓		↓		Y		↓		↓
SQ5170-1A	79	1	17					✓			Y		C2		
-4A	80	1	18								Y				
SQ5171-2A	81	1	19								Y				
-3A	82	1	20								Y				
-1DL A	83	4	21								Y				10mL/10mL
SQ5170-2DL B	84	4	22								Y				↓
-3DL B	85	10	23								Y				1mL/10mL
-3 C	86	1	24								Y				
-2C	87	1	25								Y		↓		

Continued on page 72

* Refer to page 1 for standard preparation instructions.

WG continued 9:01

KATAHDIN ANALYTICAL SERVICES

GCMS-S INSTRUMENT RUNLOG **DATE/TIME OF BFB INJECTION:** 09-28-23

Method - Check One:	8260 ✓	8260 - 10 mL	8260 SIM	624	524
STD IDs: * BFB STD:	V25802	CAL STD: V23803	XTRAs STD: V25804	LCS/MS STD: V25800	Vial Lot # 2795PLMPCW
SURR & IS STD: V27999	MeOH Lot #: —	Prep Method	Criteria	pH Paper Lot #: 6210005	KI Paper Lot # —

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	5030	5035	1311	KAS	DoD	QAPP	Y/N	ANALYST	pH	TRC	COMMENTS
SQ5171-13	S16088	1	26	8260(09)25	✓			✓			Y	CL	<2	N/A	
CCV -5	89	1	27								Y		N/A		21:14 x ✓
CCV	90	1	28								N				not needed
CCV	91	1	29								N				↓
Rinse	92	1	30								—				
Rinse	93	1	1								—				

CL 9/28/23

* Refer to page 1 for standard preparation instructions.

TCLP SEMIVOLATILE DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **SDG:** SQ5109 **Matrix:** AQ

Client Sample ID	Lab Sample ID	Col. ID	2FBP	#	2FP	#	NBZ	#	PHL	#	TBP	#	TPH	#
DOW-SWC-01	SQ5109-1		98.8		45.8		91.7		30.9		93.0		99.5	
Method Blank	WG343378-1		90.3		45.1		92.2		29.6		90.9		73.3	
Laboratory Control S	WG343378-2		87.0		42.1		88.9		28.5		95.3		98.4	
Laboratory Control S	WG343378-3		96.3		42.1		93.8		29.0		99.5		98.8	
TCLP Blank	WG343378-4		94.9		43.8		95.0		30.8		96.0		75.0	

Abbr.	Surrogate Compound	QC Limits
2FBP	2-Fluorobiphenyl	44-119
2FP	2-Fluorophenol	19-119
NBZ	Nitrobenzene-D5	44-120
PHL	Phenol-D6	10-90
TBP	2,4,6-Tribromophenol	43-140
TPH	Terphenyl-D14	50-134

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Method Blank Summary

Lab Name : Katahdin Analytical Services
SDG : SQ5109
Lab File ID : U1630.D
Lab Sample ID : WG343378-1
Instrument ID : GCMS-U
Date Extracted : 02-OCT-23
Matrix : AQ
Date Analyzed : 18-OCT-23
Extraction method : SW846 3510C
Time Analyzed : 16:52

This Method Blank applies to the following samples and QC samples:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG343378-2	U1631.D	10/18/23	17:24
Laboratory Control S	WG343378-3	U1632.D	10/18/23	17:56
TCLP Blank	WG343378-4	U1633.D	10/18/23	18:28
DOW-SWC-01	SQ5109-1	U1653.D	10/19/23	19:33

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Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
SDG : SQ5109
Lab File ID : UD935.D
Date Analyzed : 18-OCT-23
Instrument ID : GCMS-U
Time Analyzed : 09:54

m/e	Ion Abundance Criteria	% Relative Abundance		
51	10.0 - 80.0% of mass 198	23.8		
68	Less than 2.0% of mass 69	0.0	0.0	1
69	Less than 100.0% of mass 198	34.9		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	10.0 - 80.0% of mass 198	49.1		
197	Less than 2.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.7		
275	10.0 - 60.0% of mass 198	21.1		
365	1.0 - 100.0% of mass 198	2.1		
441	0.1 - 100.0% of mass 443	9.6	78.45	2
442	50.0 - 100.0% of mass 198	66.3		
443	15.0 - 24.0% of mass 442	12.3	18.52	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG344071-4	U1617.D	10/18/23	10:13
Initial Calibration	WG344071-3	U1618.D	10/18/23	10:44
Initial Calibration	WG344071-2	U1619.D	10/18/23	11:14
Initial Calibration	WG344071-5	U1620.D	10/18/23	11:45
Initial Calibration	WG344071-6	U1621.D	10/18/23	12:16
Initial Calibration	WG344071-7	U1622.D	10/18/23	12:47
Independent Source	WG344071-8	U1623.D	10/18/23	13:17
Method Blank	WG343378-1	U1630.D	10/18/23	16:52
Laboratory Control S	WG343378-2	U1631.D	10/18/23	17:24
Laboratory Control S	WG343378-3	U1632.D	10/18/23	17:56
TCLP Blank	WG343378-4	U1633.D	10/18/23	18:28
Continuing Calibrati	WG344071-9	U1637.D	10/18/23	20:36

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
SDG : SQ5109
Lab File ID : UD936.D
Date Analyzed : 19-OCT-23
Instrument ID : GCMS-U
Time Analyzed : 13:31

m/e	Ion Abundance Criteria	% Relative Abundance		
51	10.0 - 80.0% of mass 198	23.1		
68	Less than 2.0% of mass 69	0.0	0.0	1
69	Less than 100.0% of mass 198	35.2		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	10.0 - 80.0% of mass 198	50.5		
197	Less than 2.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.4		
275	10.0 - 60.0% of mass 198	21.0		
365	1.0 - 100.0% of mass 198	1.9		
441	0.1 - 100.0% of mass 443	9.9	77.16	2
442	50.0 - 100.0% of mass 198	68.7		
443	15.0 - 24.0% of mass 442	12.8	18.68	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG344145-2	U1642.D	10/19/23	13:49
DOW-SWC-01	SQ5109-1	U1653.D	10/19/23	19:33
Continuing Calibrati	WG344145-3	U1661.D	10/19/23	23:49

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Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Lab ID : WG344071-4
Lab File ID : U1617.D

SDG: SQ5109
Analytical Date: 10/18/23 10:13
Instrument ID: GCMS-U

		1,4-DICHLOROBENZENE-D4			NAPHTHALENE-D8			ACENAPHTHENE-D10		
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	587378		6.54		1829962		8.24		1068907		10.60	
	Upper Limit	1174756		6.71		3659924		8.40		2137814		10.76	
	Lower Limit	293689		6.37		914981		8.07		534453.5		10.43	
Client Sample ID	Lab Sample ID												
Method Blank	WG343378-1	536327		6.53		1692461		8.23		1009667		10.59	
Laboratory Control S	WG343378-2	531356		6.53		1628100		8.24		979492		10.60	
Laboratory Control S	WG343378-3	533814		6.53		1678476		8.24		984209		10.59	
TCLP Blank	WG343378-4	553789		6.53		1746058		8.23		1020286		10.59	
Continuing Calibrati	WG344071-9	554640		6.54		1719249		8.24		992282		10.60	
Continuing Calibrati	WG344145-2	513919		6.54		1613689		8.25		943240		10.60	
DOW-SWC-01	SQ5109-1	531022		6.53		1706879		8.24		995703		10.59	
Continuing Calibrati	WG344145-3	530947		6.54		1654783		8.24		939540		10.60	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 10 seconds of internal standard RT
RT Lower Limit = - 10 seconds of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Lab ID : WG344071-4
Lab File ID : U1617.D

SDG: SQ5109
Analytical Date: 10/18/23 10:13
Instrument ID: GCMS-U

		PHENANTHRENE-D10				CHRYSENE-D12			
		Area	#	RT	#	Area	#	RT	#
	Std .	1877669		12.60		1307100		16.25	
	Upper Limit	3755338		12.76		2614200		16.41	
	Lower Limit	938834.5		12.43		653550		16.08	
Client Sample ID	Lab Sample ID								
Method Blank	WG343378-1	1644237		12.58		1393063		16.24	
Laboratory Control S	WG343378-2	1734401		12.60		1083573		16.25	
Laboratory Control S	WG343378-3	1704690		12.59		1073473		16.25	
TCLP Blank	WG343378-4	1683295		12.57		1398397		16.24	
Continuing Calibrati	WG344071-9	1713604		12.60		913914		16.25	
Continuing Calibrati	WG344145-2	1644642		12.60		1028580		16.26	
DOW-SWC-01	SQ5109-1	1641759		12.58		1011121		16.24	
Continuing Calibrati	WG344145-3	1651633		12.60		994163		16.25	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 10 seconds of internal standard RT
RT Lower Limit = - 10 seconds of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL, "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery or percent RPD (relative percent difference) was outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

And/or

J Used for Dual Column analytes when there is a greater than 40% difference for detected concentrations between the two GC/HPLC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

I Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration (ICAL).

D Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration Verification (ICV).

C Indicates that the flagged compound did not meet DoD criteria in the corresponding opening Calibration Verification (CV).

V Indicates that the flagged compound did not meet DoD criteria in the corresponding closing Calibration Verification (CV).

L/LL Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M/MM Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike (MS) and/or Matrix Spike Duplicate MSD) prepared and/or analyzed concurrently with the native sample.

H Indicates the flagged compound was detected on the primary column but was not detected on the confirmation column therefore the compound is not reported as a positive detection. (SW846 8330A/B only)

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Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5109
Lab ID: SQ5109-1
Client ID: DOW-SWC-01
Matrix: AQ
Lab File ID: U1653.D

Sample Date: 21-SEP-23
Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: 3510C/1311
Lab Prep Batch: WG343378

Report Date: 17-NOV-23
Analysis Date: 19-OCT-23
Analyst: DT
Analysis Method: SW846 8270D
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pyridine	U	38	ug/L	1	10	50.	18.	38.
1,4-Dichlorobenzene	U	38	ug/L	1	10	50.	18.	38.
2-Methylphenol	U	55	ug/L	1	15	75.	28.	55.
3&4-Methylphenol	U	75	ug/L	1	20	100	38.	75.
Hexachloroethane	U	38	ug/L	1	10	50.	18.	38.
Nitrobenzene	U	38	ug/L	1	10	50.	18.	38.
Hexachlorobutadiene	U	38	ug/L	1	10	50.	18.	38.
2,4,6-Trichlorophenol	U	38	ug/L	1	10	50.	18.	38.
2,4,5-Trichlorophenol	U	100	ug/L	1	25	120	50.	100
2,4-Dinitrotoluene	U	38	ug/L	1	10	50.	18.	38.
Hexachlorobenzene	U	38	ug/L	1	10	50.	18.	38.
Pentachlorophenol	U	100	ug/L	1	25	120	50.	100
2-Fluorophenol		45.8	%					
Phenol-D6		30.9	%					
Nitrobenzene-D5		91.7	%					
2-Fluorobiphenyl		98.8	%					
2,4,6-Tribromophenol		93.0	%					
Terphenyl-D14		99.5	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1653.D
Report Date: 17-Nov-2023 10:36

Katahdin Analytical Services

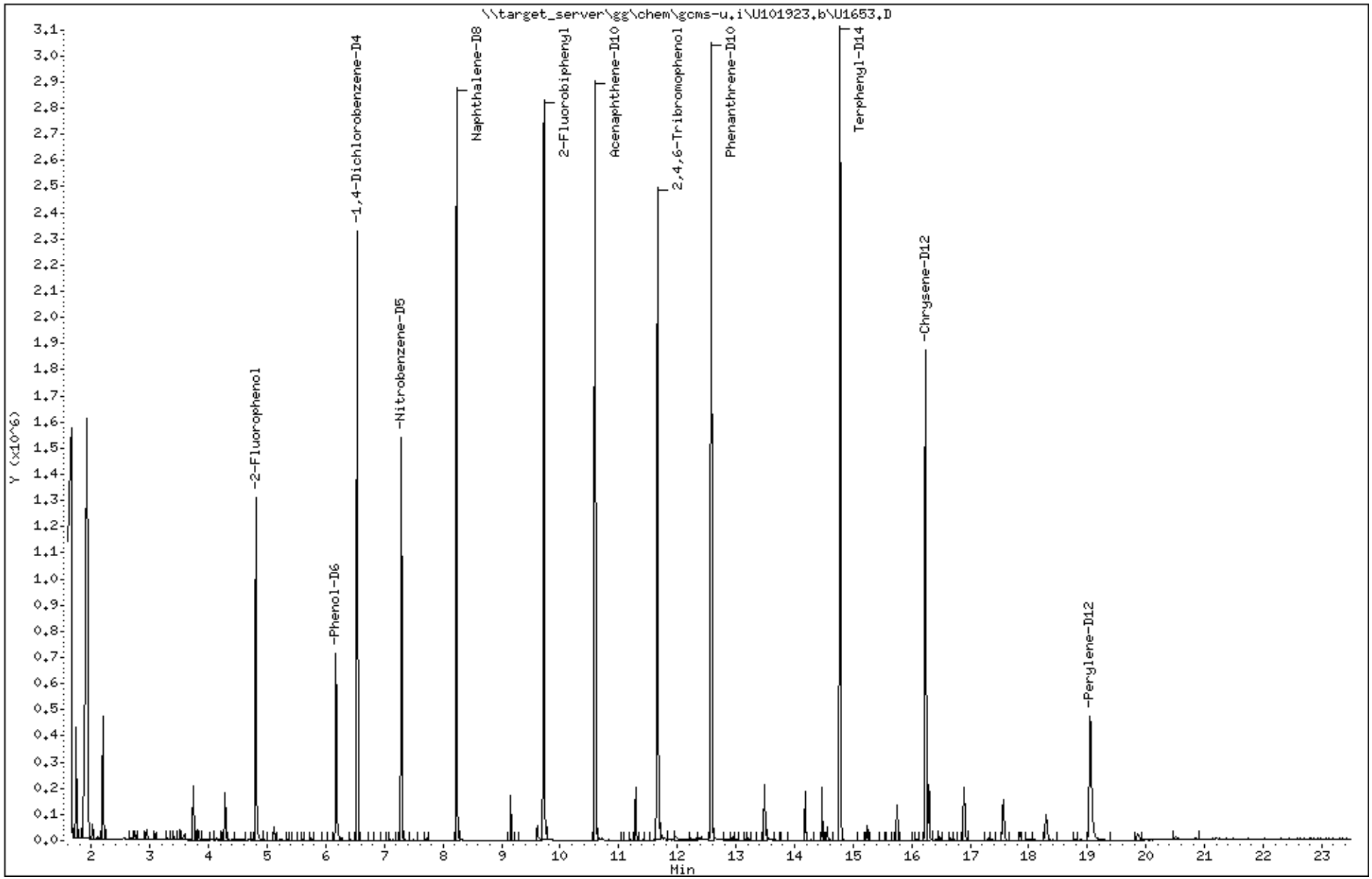
Data file : \\target_server\gg\chem\gcms-u.i\U101923.b\U1653.D
Lab Smp Id: SQ5109-1 Client Smp ID: DOW-SWC-01
Inj Date : 19-OCT-2023 19:33
Operator : DT Inst ID: gcms-u.i
Smp Info : SQ5109-1
Misc Info : WG344145,WG343378,WG344071-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U101923.b\U8270C20.m
Meth Date : 20-Oct-2023 07:36 dtasker Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47 Cal File: U1622.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DoDTCLP50.sub
Target Version: 4.12
Processing Host: TECHN0VA-01

Concentration Formula: Amt * DF * Uf*(Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	0.20000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	4.801	4.822	(0.735)	667377	45.8136	229	
$ 12 Phenol-D6	99	6.167	6.188	(0.945)	453235	30.9113	154	
* 19 1,4-Dichlorobenzene-D4	152	6.530	6.550	(1.000)	531022	40.0000		
$ 33 Nitrobenzene-D5	82	7.285	7.326	(0.884)	593521	45.8695	229	
* 44 Naphthalene-D8	136	8.237	8.257	(1.000)	1706879	40.0000		
$ 63 2-Fluorobiphenyl	172	9.728	9.748	(0.919)	1367273	49.4282	247	
* 78 Acenaphthene-D10	164	10.587	10.607	(1.000)	995703	40.0000		
$ 100 2,4,6-Tribromophenol	330	11.663	11.694	(1.102)	360370	92.9785	465	
* 114 Phenanthrene-D10	188	12.584	12.615	(1.000)	1641759	40.0000		
$ 130 Terphenyl-D14	244	14.779	14.799	(0.910)	1428499	49.7469	249	
* 141 Chrysene-D12	240	16.238	16.268	(1.000)	1011121	40.0000		
* 151 Perylene-D12	264	19.043	19.053	(1.000)	432230	40.0000		

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1653.D
Date : 19-OCT-2023 19:33
Client ID: DOW-SWC-01
Instrument: gcms-u.i
Sample Info: SQ5109-1
Volume Injected (uL): 1.0
Operator: DT
Column phase: Rxi-SVOCms
Column diameter: 0.25



Katahdin Analytical Services SQ5109 Page 132 of 681

Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5109

Instrument ID: GCMS-U **Column ID:**

Lab File IDs : U1619.D U1618.D U1617.D U1620.D U1621.D U1622.D **Calibration Date(s):** 18-OCT-23 10:13, 18-OCT-23 12:47

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	10.0000	25.0000	50.0000	75.0000	100.0000	125.0000	Type	b	m1	m2	Result	Limit	
Pyridine	1.14932	1.13348	1.10547	0.94526	0.93623	0.93827	AVG		1.03467		10.1273	15	O
1,4-Dichlorobenzene	230676	544739	979856	1379556	1611576	2036703	QUA	0.000e+00	0.64294	0.08532	0.99392	0.99	O
2-Methylphenol	1.15393	1.04965	1.07414	0.98032	0.97658	1.02049	AVG		1.04252		6.38644	15	O
3&4-Methylphenol	1.17014	1.04866	1.03063	0.92165	0.89536	0.94786	AVG		1.00238		10.1764	15	O
Hexachloroethane	88245	206251	386819	522259	619255	743476	QUA	0.000e+00	1.43128	0.88279	0.99736	0.99	O
Nitrobenzene	0.35094	0.31498	0.28965	0.25737	0.26832	0.26515	AVG		0.29107		12.3708	15	O
Hexachlorobutadiene	105115	251513	453284	637114	798863	946627	QUA	0.000e+00	4.08948	4.22957	0.99918	0.99	O
2,4,6-Trichlorophenol	0.43816	0.43376	0.40524	0.34923	0.33202	0.33079	AVG		0.38153		13.1398	15	O
2,4,5-Trichlorophenol	0.45231	0.45935	0.43816	0.38004	0.36624	0.36499	AVG		0.41018		10.8242	15	O
2,4-Dinitrotoluene	0.44813	0.44897	0.45984	0.37520	0.40130	0.38291	AVG		0.41939		8.88847	15	O
Hexachlorobenzene	108764	261527	503421	684721	898911	1127219	QUA	0.000e+00	4.33727	2.93373	0.99107	0.99	O
Pentachlorophenol	0.14124	0.16047	0.15963	0.13313	0.12659	0.12376	AVG		0.14080		11.4216	15	O
2-Fluorophenol	1.24615	1.17907	1.15826	1.02694	0.98284	0.99053	AVG		1.09730		10.1487	15	
Phenol-D6	1.27031	1.17177	1.12885	1.03103	0.99576	1.02910	AVG		1.10447		9.54043	15	
Nitrobenzene-D5	0.36029	0.32923	0.31338	0.27638	0.26828	0.27181	AVG		0.30323		12.3081	15	
2-Fluorobiphenyl	377048	862281	1556321	2123982	2644234	3083453	QUA	0.000e+00	0.62988	0.19663	0.99657	0.99	
2,4,6-Tribromophenol	0.16390	0.17052	0.16926	0.14693	0.14304	0.14056	AVG		0.15570		8.79250	15	
Terphenyl-D14	1.07942	1.03239	1.10191	1.08137	1.18895	1.33182	AVG		1.13598		9.58123	15	

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1623.D
Report Date: 20-Oct-2023 13:38

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: 021497
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: WG344071-8
Level: LOW Operator: DT
Data Type: MS DATA SampleType: INDSOURCE
SpikeList File: INDcheck8270.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Misc Info: WG344071,WG344071,WG344071-4,SQ5205-1

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	1,4-Dioxane	50.0	48.2	96.44	80-120
3	Pyridine	50.0	52.9	105.81	80-120
2	N-Nitrosodimethyla	50.0	52.8	105.54	80-120
5	2-Picoline	50.0	49.7	99.35	80-120
6	N-Nitrosomethyleth	50.0	44.7	89.38	80-120
7	Methyl Methanesulf	50.0	45.7	91.38	80-120
9	N-Nitrosodiethylam	50.0	47.3	94.65	80-120
10	Ethyl Methanesulfo	50.0	44.9	89.81	80-120
11	Benzaldehyde	50.0	24.7	49.39*	80-120
13	Aniline	50.0	45.1	90.13	80-120
14	Phenol	50.0	53.0	105.97	80-120
16	Bis(2-Chloroethyl)	50.0	49.7	99.49	80-120
17	2-Chlorophenol	50.0	48.8	97.53	80-120
18	1,3-Dichlorobenzen	50.0	50.2	100.51	80-120
20	1,4-Dichlorobenzen	50.0	50.9	101.89	80-120
21	Benzyl alcohol	50.0	45.2	90.45	80-120
22	1,2-Dichlorobenzen	50.0	49.1	98.22	80-120
23	Bis(2-Chloroisopro	50.0	43.5	86.99	80-120
24	2,2'-Oxybis(1-chlo	50.0	37.7	75.47*	80-120
25	2-Methylphenol	50.0	45.6	91.26	80-120
26	Acetophenone	100	88.3	88.27	80-120
27	N-Nitrosopyrrolidi	50.0	42.5	85.03	80-120
28	N-Nitrosomorpholin	50.0	45.6	91.28	80-120
29	N-Nitroso-di-n-pro	50.0	45.1	90.30	80-120
30	3&4-Methylphenol	50.0	44.8	89.66	80-120
32	Hexachloroethane	50.0	48.9	97.80	80-120
31	o-Toluidine	50.0	42.7	85.46	80-120
34	Nitrobenzene	50.0	53.0	106.09	80-120
35	N-Nitrosopiperidin	50.0	44.8	89.60	80-120
36	Isophorone	50.0	41.8	83.71	80-120
37	2-Nitrophenol	50.0	50.1	100.19	80-120
38	2,4-Dimethylphenol	50.0	58.4	116.88	80-120
40	Bis(2-Chloroethoxy	50.0	53.1	106.20	80-120
39	O,O,O-Triethylphos	50.0	47.6	95.18	80-120
51	A,A-Dimethylphene	50.0	0.000	*	80-120
41	Benzoic acid	100	53.3	53.32*	80-120
42	2,4-Dichlorophenol	50.0	51.4	102.72	80-120
43	1,2,4-Trichloroben	50.0	49.9	99.77	80-120
45	Naphthalene	50.0	50.5	101.00	80-120
46	alpha-Terpineol	50.0	48.2	96.37	80-120

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1623.D
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SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
48	2,6-Dichlorophenol	50.0	51.1	102.26	80-120
47	4-Chloroaniline	50.0	33.0	65.99*	80-120
49	Hexachloropropene	50.0	52.2	104.41	80-120
50	Hexachlorobutadien	50.0	51.3	102.58	80-120
52	N-Nitroso-Di-N-But	50.0	46.6	93.16	80-120
54	Caprolactam	50.0	51.0	101.97	80-120
53	p-Phenylenediamine	50.0	0.000	*	80-120
56	Isosafrole	50.0	43.6	87.20	80-120
55	4-Chloro-3-Methylp	50.0	47.1	94.14	80-120
57	2-Methylnaphthalen	50.0	50.4	100.80	80-120
58	1-Methylnaphthalen	50.0	47.4	94.92	80-120
59	1,2,4,5-Tetrachlor	100	98.6	98.65	80-120
60	Hexachlorocyclopen	50.0	58.5	117.08	80-120
61	2,4,6-Trichlorophe	50.0	50.8	101.59	80-120
62	2,4,5-Trichlorophe	50.0	49.9	99.73	80-120
64	Safrole	50.0	45.6	91.12	80-120
65	1,1'-Biphenyl	50.0	49.6	99.16	80-120
66	2-Chloronaphthalen	50.0	54.5	109.07	80-120
67	1-Chloronaphthalen	50.0	41.5	83.06	80-120
69	2-Nitroaniline	50.0	40.0	80.01	80-120
70	1,4-Naphthoquinone	50.0	77.1	154.13*	80-120
72	Dimethyl Phthalate	50.0	44.5	88.93	80-120
73	1,3-Dinitrobenzene	50.0	47.4	94.72	80-120
75	Acenaphthylene	50.0	45.1	90.13	80-120
74	2,6-Dinitrotoluene	50.0	53.7	107.46	80-120
77	3-Nitroaniline	50.0	43.4	86.83	80-120
79	Acenaphthene	50.0	48.8	97.61	80-120
80	2,4-Dinitrophenol	50.0	45.4	90.90	80-120
83	Dibenzofuran	50.0	47.3	94.68	80-120
81	Pentachlorobenzene	50.0	52.0	103.99	80-120
82	4-Nitrophenol	50.0	53.6	107.15	80-120
84	2,4-Dinitrotoluene	50.0	46.2	92.32	80-120
85	1-Naphthylamine	50.0	30.2	60.33*	80-120
88	2-Naphthylamine	50.0	31.0	61.99*	80-120
87	2,3,4,6-Tetrachlor	50.0	48.1	96.20	80-120
89	Diethylphthalate	50.0	48.4	96.86	80-120
92	Fluorene	50.0	48.6	97.29	80-120
93	4-Chlorophenyl-phe	50.0	48.6	97.11	80-120
90	O,O-diethyl-o-2-py	50.0	47.7	95.37	80-120
94	5-Nitro-O-Toluidin	50.0	47.4	94.76	80-120
95	4-Nitroaniline	50.0	41.6	83.13	80-120
97	N-Nitrosodiphenyla	100	93.8	93.80	80-120
96	4,6-Dinitro-2-Meth	50.0	48.7	97.45	80-120
98	1,2-Diphenylhydraz	50.0	45.5	91.03	80-120
101	Sulfotepp	50.0	46.8	93.50	80-120
103	Diallate	50.0	54.2	108.39	80-120
104	Phorate	50.0	35.0	70.06*	80-120
106	4-Bromophenyl-phen	50.0	47.8	95.69	80-120
105	Phenacetin	50.0	49.0	98.06	80-120
102	1,3,5-Trinitrobenz	50.0	49.8	99.71	80-120
107	Hexachlorobenzene	50.0	47.6	95.19	80-120
108	Dimethoate	50.0	55.1	110.16	80-120
109	Atrazine	50.0	9.35	18.70*	80-120
110	4-Aminobiphenyl	50.0	34.0	67.97*	80-120

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1623.D
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SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
111 Pentachlorophenol	50.0	53.0	105.92	80-120
113 Pronamide	50.0	46.1	92.24	80-120
112 Pentachloronitrobe	50.0	47.3	94.56	80-120
116 Phenanthrene	50.0	52.4	104.90	80-120
115 Disulfoton	50.0	46.1	92.15	80-120
118 Anthracene	50.0	46.5	93.02	80-120
117 Dinoseb	50.0	54.0	108.07	80-120
119 Carbazole	50.0	44.3	88.57	80-120
120 Methyl Parathion	50.0	51.0	102.02	80-120
121 Di-n-butylphthalat	50.0	52.3	104.54	80-120
122 Ethyl Parathion	50.0	49.9	99.76	80-120
124 4-Nitroquinoline-1	50.0	49.2	98.39	80-120
125 Methapyrilene	50.0	40.8	81.67	80-120
126 Isodrin	50.0	42.9	85.72	80-120
127 Fluoranthene	50.0	47.5	94.94	80-120
129 Benzidine	50.0	19.5	39.07*	80-120
128 Pyrene	50.0	44.7	89.49	80-120
131 Aramite	50.0	52.0	103.93	80-120
132 p-Dimethylaminoazo	50.0	44.7	89.39	80-120
133 Chlorobenzilate	50.0	44.8	89.61	80-120
134 Famphur	50.0	0.000	0.00*	80-120
135 3,3'-Dimethylbenzi	50.0	39.3	78.62*	80-120
136 Butylbenzylphthala	50.0	46.3	92.65	80-120
137 Bis(2-ethylhexyl)a	50.0	42.4	84.87	80-120
138 2-Acetylaminofluor	50.0	47.6	95.12	80-120
140 Benzo(a)anthracene	50.0	47.8	95.64	80-120
139 3,3'-Dichlorobenzi	50.0	45.9	91.82	80-120
142 Chrysene	50.0	49.5	99.05	80-120
143 bis(2-Ethylhexyl)p	50.0	48.4	96.85	80-120
144 Kepone	50.0	0.000	0.00*	80-120
145 Di-n-octylphthalat	50.0	54.6	109.12	80-120
146 Benzo(b)fluoranthe	50.0	49.4	98.91	80-120
148 7,12-Dimethylbenz(	50.0	52.3	104.66	80-120
149 Benzo(k)fluoranthe	50.0	50.5	100.94	80-120
147 Hexachlorophene	50.0	0.000	*	80-120
150 Benzo(a)pyrene	50.0	46.1	92.24	80-120
152 3-Methylcholanthre	50.0	47.2	94.33	80-120
153 Dibenz(a,j)acridin	50.0	57.0	113.90	80-120
154 Indeno(1,2,3-cd)py	50.0	45.6	91.31	80-120
155 Dibenzo(a,h)anthra	50.0	46.0	91.94	80-120
156 Benzo(g,h,i)peryle	50.0	47.0	93.98	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 8 2-Fluorophenol	100	0.000	*	10-80
$ 12 Phenol-D6	100	0.000	*	10-90
$ 33 Nitrobenzene-D5	50.0	0.000	*	41-91
$ 63 2-Fluorobiphenyl	50.0	0.000	*	43-90
$ 100 2,4,6-Tribromophe	100	0.000	*	37-112
$ 130 Terphenyl-D14	50.0	0.000	*	36-156

ICAL Workgroup WG344071

Parameter	Curve Type	r^2	r^2 Limit	RSE	RSE limit	Column
Benzaldehyde	QUA	0.99861	.99	9.469	20/30	
1,3-Dichlorobenzene	QUA	0.99741	.99	4.705	20/30	
1,4-Dichlorobenzene	QUA	0.99392	.99	7.262	20/30	
1,2-Dichlorobenzene	QUA	0.99807	.99	3.915	20/30	
N-Nitrosopyrrolidine	QUA	0.99859	.99	13.09	20/30	
N-Nitroso-di-n-propylamine	QUA	0.99974	.99	1.779	20/30	
Hexachloroethane	QUA	0.99736	.99	5.431	20/30	
Benzoic acid	QUA	0.99059	.99	33.79**	20/30	
2,4-Dichlorophenol	QUA	0.99132	.99	24.78*	20/30	
1,2,4-Trichlorobenzene	QUA	0.99538	.99	10.16	20/30	
Naphthalene	QUA	0.99613	.99	6.524	20/30	
4-Chloroaniline	QUA	0.99592	.99	7.38	20/30	
2,6-Dichlorophenol	QUA	0.99132	.99	24.78*	20/30	
Hexachloropropene	QUA	0.99782	.99	8.43	20/30	
Hexachlorobutadiene	QUA	0.99918	.99	4.333	20/30	
N-Nitroso-Di-N-Butylamine	QUA	0.99661	.99	20.38*	20/30	
4-Chloro-3-Methylphenol	QUA	0.99884	.99	8.616	20/30	
2-Methylnaphthalene	QUA	0.99219	.99	15.16	20/30	
1-Methylnaphthalene	QUA	0.99467	.99	7.006	20/30	
1,2,4,5-Tetrachlorobenzene	QUA	0.99211	.99	11.24	20/30	
Hexachlorocyclopentadiene	QUA	0.99020	.99	9.268	20/30	
2-Fluorobiphenyl	QUA	0.99657	.99	0	20/30	
Diphenylether	QUA	0.99557	.99	6.337	20/30	
Acenaphthylene	QUA	0.99143	.99	10.97	20/30	
Acenaphthene	QUA	0.99038	.99	11.13	20/30	
4-Nitrophenol	QUA	0.99448	.99	25.22*	20/30	
Dibenzofuran	QUA	0.99152	.99	9.445	20/30	
2-Naphthylamine	QUA	0.99128	.99	9.125	20/30	
N-Nitrosodiphenylamine	QUA	0.99618	.99	7.256	20/30	
1,2-Diphenylhydrazine	QUA	0.99036	.99	12.93	20/30	
Azobenzene	QUA	0.99036	.99	12.93	20/30	
Sulfotepp	QUA	0.99504	.99	8.541	20/30	
Diallate	QUA	0.99628	.99	6.634	20/30	
4-Bromophenyl-phenylether	QUA	0.99745	.99	4.76	20/30	
Hexachlorobenzene	QUA	0.99107	.99	12.05	20/30	
4-Aminobiphenyl	QUA	0.99168	.99	19.31	20/30	
Pronamide	QUA	0.99183	.99	8.429	20/30	
Phenanthrene	QUA	0.99496	.99	9.989	20/30	
Anthracene	QUA	0.99587	.99	6.644	20/30	
Carbazole	QUA	0.99720	.99	14.35	20/30	
Di-n-butylphthalate	QUA	0.99086	.99	13.09	20/30	
Isodrin	QUA	0.99859	.99	4.731	20/30	
Fluoranthene	QUA	0.99485	.99	18.36	20/30	

ICAL Workgroup

Parameter	Curve Type	r^2	r^2 Limit	RSE	RSE limit	Column
2-Acetylaminofluorene	QUA	0.99239	.99	13.11	20/30	
3,3'-Dichlorobenzidine	QUA	0.99311	.99	9.247	20/30	
Di-n-octylphthalate	QUA	0.99052	.99	22.82*	20/30	
Dibenz(a,j)acridine	QUA	0.99793	.99	13.71	20/30	
Indeno(1,2,3-cd)pyrene	QUA	0.99809	.99	12.34	20/30	
Dibenzo(a,h)anthracene	QUA	0.99819	.99	11.49	20/30	
Benzo(g,h,i)perylene	QUA	0.99734	.99	17.74	20/30	

* = RSE over 20%
** = RSE over 30%

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1617.D
Report Date: 17-Nov-2023 09:41

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1617.D
Lab Smp Id: WG344071-4
Inj Date : 18-OCT-2023 10:13
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344071-4
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 17-Nov-2023 09:41 gcms-u.i   Quant Type: ISTD
Cal Date : 18-OCT-2023 10:13   Cal File: U1617.D
Als bottle: 2   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M))*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.141	2.182	(0.260)	160331	50.0000	52.4(a)	
	2 N-Nitrosodimethylamine	42	2.545	2.617	(0.389)	250642	50.0000	52.5(a)	
	3 Pyridine	79	2.566	2.627	(0.392)	811659	50.0000	53.4(a)	
	4 Ethyl Methacrylate	69	3.321	3.362	(0.508)	612908	50.0000	51.6(a)	
	5 2-Picoline	93	3.808	3.828	(0.582)	949865	50.0000	51.3(a)	
	6 N-Nitrosomethylethylamine	88	4.035	4.066	(0.617)	361953	50.0000	51.6(a)	
	7 Methyl Methanesulfonate	80	4.532	4.573	(0.693)	430732	50.0000	49.3(a)	
$	8 2-Fluorophenol	112	4.801	4.821	(0.734)	850417	50.0000	52.8(a)	
	9 N-Nitrosodiethylamine	102	5.091	5.121	(0.778)	414807	50.0000	52.0(a)	
	10 Ethyl Methanesulfonate	79	5.567	5.597	(0.851)	572176	50.0000	51.2(a)	
	11 Benzaldehyde	77	5.950	5.949	(0.910)	144442	50.0000	52.1(a)	
$	12 Phenol-D6	99	6.167	6.187	(0.943)	828825	50.0000	51.1(a)	
	13 Aniline	93	6.116	6.136	(0.935)	1081321	50.0000	51.4(a)	
	14 Phenol	94	6.178	6.208	(0.945)	883400	50.0000	49.2(a)	
	15 Pentachloroethane	117	6.147	6.156	(0.940)	339437	50.0000	51.8(a)	
	16 Bis(2-Chloroethyl)ether	93	6.240	6.260	(0.954)	690593	50.0000	50.8(a)	
	17 2-Chlorophenol	128	6.271	6.291	(0.959)	913890	50.0000	52.2(a)	
	18 1,3-Dichlorobenzene	146	6.457	6.467	(0.987)	1032327	50.0000	52.7(a)	
*	19 1,4-Dichlorobenzene-D4	152	6.540	6.550	(1.000)	587378	40.0000		
	20 1,4-Dichlorobenzene	146	6.561	6.570	(1.003)	979856	50.0000	52.4(a)	
	21 Benzyl alcohol	108	6.788	6.819	(1.038)	571256	50.0000	52.2(a)	
	22 1,2-Dichlorobenzene	146	6.757	6.767	(1.033)	990586	50.0000	52.2(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1617.D
Report Date: 17-Nov-2023 09:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	23 Bis(2-Chloroisopropyl)ether	45	6.954	6.974	(1.063)	650055	50.0000	52.4(a)	
	24 2,2'-Oxybis(1-chloropropane)	45	6.954	6.974	(1.063)	650055	50.0000	52.4(a)	
	25 2-Methylphenol	108	7.006	7.046	(1.071)	788658	50.0000	51.5(a)	
	26 Acetophenone	105	7.120	7.140	(0.864)	1084902	50.0000	50.9(a)	
	27 N-Nitrosopyrrolidine	100	7.109	7.191	(1.087)	395943	50.0000	52.0(aQ)	
	28 N-Nitrosomorpholine	56	7.171	7.222	(1.097)	272446	50.0000	52.0(a)	
	29 N-Nitroso-di-n-propylamine	70	7.161	7.202	(1.095)	424104	50.0000	50.7(aQ)	
	30 3&4-Methylphenol	108	7.202	7.243	(1.101)	756710	50.0000	51.4(a)	
	31 o-Toluidine	106	7.161	7.181	(1.095)	1088205	50.0000	50.8(a)	
	32 Hexachloroethane	117	7.202	7.212	(1.101)	386819	50.0000	53.0(a)	
$	33 Nitrobenzene-D5	82	7.306	7.326	(0.887)	716845	50.0000	51.7	
	34 Nitrobenzene	77	7.327	7.357	(0.889)	662555	50.0000	49.8(a)	
	35 N-Nitrosopiperidine	114	7.544	7.574	(0.916)	463556	50.0000	53.6(a)	
	36 Isophorone	82	7.679	7.698	(0.932)	1307340	50.0000	51.3(a)	
	37 2-Nitrophenol	139	7.751	7.771	(0.941)	531631	50.0000	50.8(a)	
	38 2,4-Dimethylphenol	107	7.886	7.916	(0.957)	592891	50.0000	49.8(a)	
	39 O,O,O-Triethylphosphorothioat	198	7.979	7.999	(0.969)	427235	50.0000	50.7(a)	
	40 Bis(2-Chloroethoxy)methane	93	7.999	8.019	(0.971)	1048170	50.0000	55.4(a)	
	41 Benzoic acid	105	8.134	8.237	(0.987)	409361	50.0000	48.8(a)	
	42 2,4-Dichlorophenol	162	8.393	8.423	(1.019)	656793	50.0000	53.2(a)	
	43 1,2,4-Trichlorobenzene	180	8.175	8.195	(0.992)	804935	50.0000	52.4(a)	
*	44 Naphthalene-D8	136	8.237	8.257	(1.000)	1829962	40.0000		
	45 Naphthalene	128	8.268	8.288	(1.004)	2060785	50.0000	51.5(a)	
	46 alpha-Terpineol	59	8.341	8.371	(1.013)	414562	50.0000	50.8(a)	
	47 4-Chloroaniline	127	8.393	8.413	(1.019)	915057	50.0000	52.9(a)	
	48 2,6-Dichlorophenol	162	8.393	8.423	(1.019)	656793	50.0000	53.2(a)	
	49 Hexachloropropene	213	8.393	8.402	(1.019)	532667	50.0000	51.8(a)	
	50 Hexachlorobutadiene	225	8.465	8.475	(1.028)	453284	50.0000	50.9(a)	
	51 A,A-Dimethylphenethylamine	58	8.444	8.528	(1.025)	54091	50.0000	15.6(a)	
	52 N-Nitroso-Di-N-Butylamine	84	8.879	8.909	(1.078)	474732	50.0000	50.4(a)	
	53 p-Phenylenediamine	108	8.889	8.930	(1.079)	596442	50.0000	60.6(a)	
	54 Caprolactam	113	8.952	9.023	(1.087)	235904	50.0000	51.3(a)	
	55 4-Chloro-3-Methylphenol	107	9.107	9.147	(1.106)	631018	50.0000	51.6(a)	
	56 Isosafrole	162	9.128	9.147	(1.108)	664672	50.0000	49.1(a)	
	57 2-Methylnaphthalene	142	9.210	9.220	(1.118)	1496170	50.0000	51.7(a)	
	58 1-Methylnaphthalene	142	9.335	9.354	(1.133)	1416972	50.0000	51.4(a)	
	59 1,2,4,5-Tetrachlorobenzene	216	9.438	9.448	(0.891)	727577	50.0000	53.7(a)	
	60 Hexachlorocyclopentadiene	237	9.428	9.437	(0.890)	391075	50.0000	56.1(a)	
	61 2,4,6-Trichlorophenol	196	9.624	9.644	(0.908)	541451	50.0000	53.1(a)	
	62 2,4,5-Trichlorophenol	196	9.686	9.717	(0.914)	585435	50.0000	53.4(a)	
$	63 2-Fluorobiphenyl	172	9.728	9.748	(0.918)	1556321	50.0000	53.4	
	64 Safrole	104	9.831	9.851	(0.928)	272447	50.0000	53.7(aQ)	
	65 1,1'-Biphenyl	154	9.852	9.882	(0.930)	1551828	50.0000	53.6(a)	
	66 2-Chloronaphthalene	127	9.862	9.882	(0.931)	671427	50.0000	50.0(aQ)	
	67 1-Chloronaphthalene	127	9.883	9.903	(0.933)	508286	50.0000	50.7(aQ)	
	68 Diphenylether	170	10.007	10.017	(0.944)	1105826	50.0000	54.3(a)	
	69 2-Nitroaniline	65	10.028	10.048	(0.946)	374459	50.0000	51.8(a)	
	70 1,4-Naphthoquinone	158	10.111	10.120	(0.954)	335592	50.0000	46.6(a)	
	71 1,4-Dinitrobenzene	168	10.235	10.265	(0.966)	303044	50.0000	54.4(a)	
	72 Dimethyl Phthalate	163	10.328	10.358	(0.975)	1627928	50.0000	50.8(a)	
	73 1,3-Dinitrobenzene	168	10.339	10.379	(0.976)	311292	50.0000	53.8(a)	
	74 2,6-Dinitrotoluene	165	10.380	10.410	(0.979)	426902	50.0000	54.6(aQ)	
	75 Acenaphthylene	152	10.401	10.421	(0.981)	2225654	50.0000	56.7(a)	
	76 1,2-Dinitrobenzene	168	10.442	10.483	(0.985)	191523	50.0000	50.6(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1617.D
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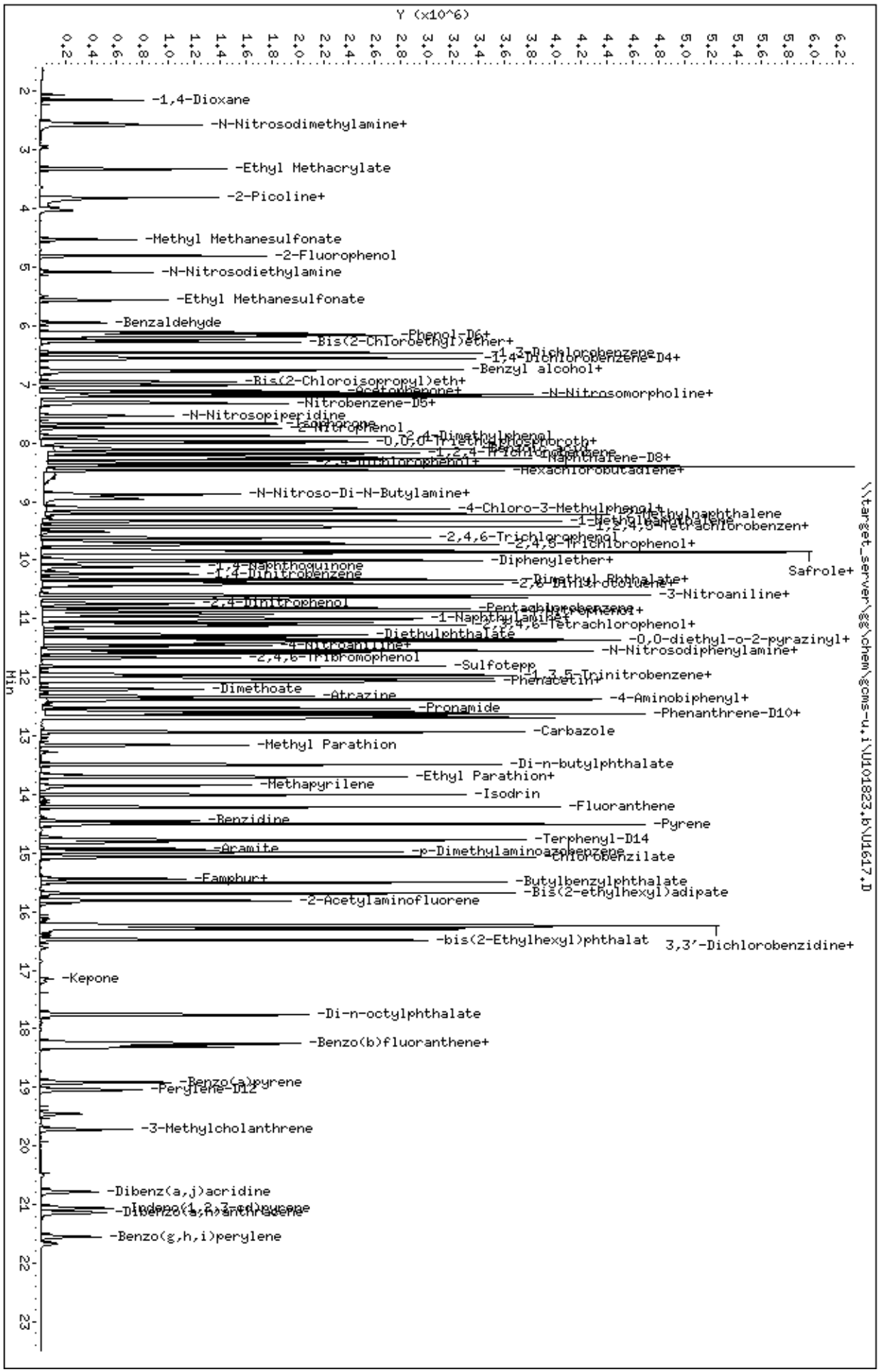
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
77	3-Nitroaniline	138	10.597	10.648	(1.000)	457383	50.0000	50.6(a)	
* 78	Acenaphthene-D10	164	10.597	10.607	(1.000)	1068907	40.0000		
79	Acenaphthene	153	10.649	10.659	(1.005)	1364943	50.0000	55.6(a)	
80	2,4-Dinitrophenol	184	10.742	10.793	(1.014)	309294	50.0000	55.0(a)	
81	Pentachlorobenzene	250	10.825	10.845	(1.021)	641941	50.0000	52.5(a)	
82	4-Nitrophenol	109	10.928	10.979	(1.031)	201811	50.0000	55.2(aQ)	
83	Dibenzofuran	168	10.877	10.897	(1.026)	1983206	50.0000	54.8(a)	
84	2,4-Dinitrotoluene	165	10.918	10.969	(1.030)	614413	50.0000	54.8(a)	
85	1-Naphthylamine	143	11.001	11.021	(1.038)	1611632	50.0000	54.9(a)	
86	2,3,5,6-Tetrachlorophenol	232	11.022	11.052	(1.040)	454291	50.0000	54.9(a)	
87	2,3,4,6-Tetrachlorophenol	232	11.073	11.104	(1.045)	455995	50.0000	55.1(a)	
88	2-Naphthylamine	143	11.115	11.145	(1.049)	1468347	50.0000	56.0(a)	
89	Diethylphthalate	149	11.280	11.311	(1.064)	1751773	50.0000	53.9(a)	
90	O,O-diethyl-o-2-pyrazinylphos	107	11.384	11.424	(1.074)	301516	50.0000	53.9(a)	
91	Thionazin	107	11.384	11.424	(1.074)	301516	50.0000	53.9(a)	
92	Fluorene	166	11.342	11.362	(1.070)	1669788	50.0000	54.6(a)	
93	4-Chlorophenyl-phenylether	204	11.374	11.393	(1.073)	812595	50.0000	53.5(a)	
94	5-Nitro-O-Toluidine	152	11.405	11.456	(1.076)	589040	50.0000	54.2(aQ)	
95	4-Nitroaniline	138	11.436	11.507	(1.079)	478475	50.0000	51.3(a)	
96	4,6-Dinitro-2-Methylphenol	198	11.467	11.518	(0.910)	354723	50.0000	53.3(a)	
97	N-Nitrosodiphenylamine	169	11.549	11.580	(0.917)	1431947	50.0000	54.2(a)	
98	1,2-Diphenylhydrazine	77	11.581	11.600	(0.919)	1325484	50.0000	55.8(a)	
99	Azobenzene	77	11.581	11.600	(0.919)	1325484	50.0000	55.8(a)	
$ 100	2,4,6-Tribromophenol	330	11.674	11.694	(1.102)	226148	50.0000	54.4	
101	Sulfotepp	97	11.819	11.839	(0.938)	268732	50.0000	53.4(a)	
102	1,3,5-Trinitrobenzene	213	11.995	12.066	(0.952)	203620	50.0000	57.1(a)	
103	Diallate	86	11.953	11.973	(0.949)	408556	50.0000	53.1(a)	
104	Phorate	75	11.963	11.983	(0.950)	971971	50.0000	54.2(a)	
105	Phenacetin	108	12.057	12.118	(0.957)	849993	50.0000	57.5(a)	
106	4-Bromophenyl-phenylether	248	12.026	12.046	(0.955)	472900	50.0000	52.7(a)	
107	Hexachlorobenzene	284	12.067	12.097	(0.958)	503421	50.0000	54.9(a)	
108	Dimethoate	87	12.212	12.253	(0.970)	432733	50.0000	54.3(a)	
109	Atrazine	200	12.326	12.356	(0.979)	346134	50.0000	54.7(a)	
110	4-Aminobiphenyl	169	12.388	12.418	(0.984)	1473762	50.0000	52.9(a)	
111	Pentachlorophenol	266	12.377	12.397	(0.983)	374676	50.0000	56.7(a)	
112	Pentachloronitrobenzene	237	12.367	12.387	(0.982)	222943	50.0000	52.1(a)	
113	Pronamide	173	12.522	12.563	(0.994)	859876	50.0000	56.1(a)	
* 114	Phenanthrene-D10	188	12.595	12.615	(1.000)	1877669	40.0000		
115	Disulfoton	88	12.667	12.698	(1.006)	842177	50.0000	55.4(a)	
116	Phenanthrene	178	12.626	12.656	(1.002)	2048877	50.0000	52.9(a)	
117	Dinoseb	211	12.657	12.687	(1.005)	476366	50.0000	54.7(a)	
118	Anthracene	178	12.698	12.729	(1.008)	2208931	50.0000	53.8(a)	
119	Carbazole	167	12.936	12.967	(1.027)	2237928	50.0000	53.3(a)	
120	Methyl Parathion	109	13.154	13.174	(1.044)	417604	50.0000	54.4(a)	
121	Di-n-butylphthalate	149	13.495	13.515	(1.071)	2757621	50.0000	55.2(a)	
122	Ethyl Parathion	291	13.702	13.733	(1.088)	177604	50.0000	54.4(aQ)	
123	Parathion	291	13.702	13.733	(1.088)	177604	50.0000	54.4(aQ)	
124	4-Nitroquinoline-1-Oxide	190	13.692	13.712	(1.087)	219707	50.0000	60.0(a)	
125	Methapyrilene	97	13.847	13.877	(1.099)	601775	50.0000	55.8(a)	
126	Isodrin	193	14.002	14.012	(1.112)	320686	50.0000	52.5(a)	
127	Fluoranthene	202	14.220	14.240	(1.129)	2408938	50.0000	54.0(a)	
128	Pyrene	202	14.510	14.530	(0.893)	2357157	50.0000	46.6(a)	
129	Benzidine	184	14.448	14.467	(0.889)	845394	50.0000	61.3(a)	
$ 130	Terphenyl-D14	244	14.779	14.799	(0.910)	1800390	50.0000	48.5	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1617.D
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
131	Aramite	185	14.924	14.933	(0.918)	180644	50.0000	52.6(a)	
132	p-Dimethylaminoazobenzene	225	14.986	15.006	(0.922)	555804	50.0000	49.2(a)	
133	Chlorobenzilate	251	15.069	15.088	(0.927)	797567	50.0000	48.7(a)	
134	Famphur	218	15.389	15.399	(0.947)	13719	50.0000	(aQ)	
135	3,3'-Dimethylbenzidine	212	15.441	15.451	(0.950)	559294	50.0000	58.7(a)	
136	Butylbenzylphthalate	149	15.503	15.513	(0.954)	1419298	50.0000	52.0(a)	
137	Bis(2-ethylhexyl)adipate	129	15.690	15.709	(0.966)	1198756	50.0000	49.2(a)	
138	2-Acetylaminofluorene	181	15.814	15.834	(0.973)	695375	50.0000	53.2(a)	
139	3,3'-Dichlorobenzidine	252	16.248	16.258	(1.000)	573998	50.0000	53.9(a)	
140	Benzo(a)anthracene	228	16.228	16.248	(0.999)	2118520	50.0000	52.3(a)	
* 141	Chrysene-D12	240	16.248	16.268	(1.000)	1307100	40.0000		
142	Chrysene	228	16.300	16.310	(1.003)	1956652	50.0000	52.7(a)	
143	bis(2-Ethylhexyl)phthalate	149	16.486	16.496	(1.015)	1933666	50.0000	52.9(a)	
144	Kepone	272	17.149	17.158	(1.055)	2133	50.0000	(aQ)	
145	Di-n-octylphthalate	149	17.760	17.769	(0.933)	2573477	50.0000	55.0(a)	
146	Benzo(b)fluoranthene	252	18.246	18.256	(0.958)	1112957	50.0000	56.6(a)	
148	7,12-Dimethylbenz(A)Anthracen	256	18.267	18.276	(0.959)	599525	50.0000	59.6(a)	
149	Benzo(k)fluoranthene	252	18.308	18.328	(0.961)	1093305	50.0000	57.5(aH)	
150	Benzo(a)pyrene	252	18.919	18.928	(0.993)	815084	50.0000	53.7(a)	
* 151	Perylene-D12	264	19.043	19.053	(1.000)	534538	40.0000		
152	3-Methylcholanthrene	268	19.726	19.736	(1.036)	334076	50.0000	48.9(a)	
153	Dibenz(a,j)acridine	279	20.782	20.802	(1.091)	362352	50.0000	49.4(a)	
154	Indeno(1,2,3-cd)pyrene	276	21.061	21.081	(1.106)	412398	50.0000	49.5(a)	
155	Dibenzo(a,h)anthracene	278	21.144	21.164	(1.110)	414776	50.0000	50.1(a)	
156	Benzo(g,h,i)perylene	276	21.558	21.578	(1.132)	406901	50.0000	49.3(a)	
M 157	Total PAHs	100				27588808	850.000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1617.D
Date : 18-OCT-2023 10:13
Client ID:
Sample Info: WG344071-4
Column phase: Rxi-5WOCms
Instrument: gcms-u.i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u.i\U101823.b\U1617.D
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Phenol-D6+
-Bis(2-Chloroethyl)ether+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-Bis(2-Chloroisopropyl)eth+
-Acetophenone+
-N-Nitrosomorpholine+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-Benzoic acid
-1,2,4-Trichlorobenzene
-Naphthalene-D8+
-2,4-Dichlorophenol+
-Hexachlorobutadiene+
-N-Nitroso-Di-N-Butylamine+
-4-Chloro-3-Methylphenol+
-1-Methylnaphthalene
-2,6-Dinitrotoluene+
-2,4,6-Trichlorophenol
-2,4,6-Trichlorophenol+
-Diphenylether+
Safrole+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-3-Nitroaniline+
-2,4-Dinitrophenol
-Pentachlorobenzene
-1-Naphthylamine+
-2,3,4,6-Tetrachlorophenol+
-Diethylphthalate
-O,O-diethyl-o-2-pyrazinyl+
-4-Nitroaniline+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-Sulfotepp
-1,3,5-Trinitrobenzene+
-Phenacetin+
-Dimethoate
-Atrazine
-4-Aminobiphenyl+
-Pronamide
-Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Famphur+
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-bis(2-Ethylhexyl)phthalat
3,3'-Dichlorobenzidine+
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene
-Dibenz(a,h)anthracene
-Benzo(g,h,i)perylene

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1618.D
Report Date: 17-Nov-2023 09:41

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1618.D
Lab Smp Id: WG344071-3
Inj Date : 18-OCT-2023 10:44
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344071-3
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 17-Nov-2023 09:41 gcms-u.i   Quant Type: ISTD
Cal Date : 18-OCT-2023 10:44   Cal File: U1618.D
Als bottle: 3   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M))*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.131	2.182	(0.259)	82604	25.0000	27.6(a)	
	2 N-Nitrosodimethylamine	42	2.524	2.617	(0.386)	126399	25.0000	26.2(a)	
	3 Pyridine	79	2.565	2.627	(0.392)	420689	25.0000	27.4(a)	
	4 Ethyl Methacrylate	69	3.310	3.362	(0.506)	324918	25.0000	27.1(a)	
	5 2-Picoline	93	3.807	3.828	(0.582)	497765	25.0000	26.6(a)	
	6 N-Nitrosomethylethylamine	88	4.025	4.066	(0.615)	181982	25.0000	25.7(a)	
	7 Methyl Methanesulfonate	80	4.521	4.573	(0.691)	238400	25.0000	27.0(a)	
$	8 2-Fluorophenol	112	4.801	4.821	(0.734)	437607	25.0000	26.9(a)	
	9 N-Nitrosodiethylamine	102	5.080	5.121	(0.777)	210167	25.0000	26.1(a)	
	10 Ethyl Methanesulfonate	79	5.556	5.597	(0.850)	302381	25.0000	26.8(a)	
	11 Benzaldehyde	77	5.939	5.949	(0.908)	81845	25.0000	23.1(a)	
$	12 Phenol-D6	99	6.157	6.187	(0.941)	434899	25.0000	26.5(a)	
	13 Aniline	93	6.105	6.136	(0.934)	580656	25.0000	27.3(a)	
	14 Phenol	94	6.177	6.208	(0.945)	470581	25.0000	25.9(a)	
	15 Pentachloroethane	117	6.146	6.156	(0.940)	177956	25.0000	26.9(a)	
	16 Bis(2-Chloroethyl)ether	93	6.229	6.260	(0.953)	367564	25.0000	26.8(a)	
	17 2-Chlorophenol	128	6.271	6.291	(0.959)	482537	25.0000	27.3(a)	
	18 1,3-Dichlorobenzene	146	6.447	6.467	(0.986)	569073	25.0000	25.8(a)	
*	19 1,4-Dichlorobenzene-D4	152	6.540	6.550	(1.000)	593835	40.0000		
	20 1,4-Dichlorobenzene	146	6.560	6.570	(1.003)	544739	25.0000	26.5(a)	
	21 Benzyl alcohol	108	6.778	6.819	(1.036)	287126	25.0000	26.0(a)	
	22 1,2-Dichlorobenzene	146	6.747	6.767	(1.032)	551318	25.0000	25.3(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1618.D
Report Date: 17-Nov-2023 09:41

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	23	Bis(2-Chloroisopropyl)ether	45	6.954	6.974	(1.063)	345985	25.0000	27.6(a)	
	24	2,2'-Oxybis(1-chloropropane)	45	6.954	6.974	(1.063)	345985	25.0000	27.6(a)	
	25	2-Methylphenol	108	6.985	7.046	(1.068)	389576	25.0000	25.2(a)	
	26	Acetophenone	105	7.109	7.140	(0.863)	575198	25.0000	27.6(a)	
	27	N-Nitrosopyrrolidine	100	7.088	7.191	(1.084)	209417	25.0000	22.5(a)	
	28	N-Nitrosomorpholine	56	7.150	7.222	(1.093)	142358	25.0000	26.8(a)	
	29	N-Nitroso-di-n-propylamine	70	7.150	7.202	(1.093)	241991	25.0000	25.5(a)	
	30	3&4-Methylphenol	108	7.192	7.243	(1.100)	389208	25.0000	26.2(a)	
	31	o-Toluidine	106	7.150	7.181	(1.093)	579527	25.0000	26.8(a)	
	32	Hexachloroethane	117	7.202	7.212	(1.101)	206251	25.0000	24.1(a)	
$	33	Nitrobenzene-D5	82	7.295	7.326	(0.886)	368398	25.0000	27.1	
	34	Nitrobenzene	77	7.316	7.357	(0.888)	352454	25.0000	27.0(a)	
	35	N-Nitrosopiperidine	114	7.523	7.574	(0.913)	227305	25.0000	26.9(a)	
	36	Isophorone	82	7.658	7.698	(0.930)	674043	25.0000	27.0(a)	
	37	2-Nitrophenol	139	7.740	7.771	(0.940)	273920	25.0000	26.8(a)	
	38	2,4-Dimethylphenol	107	7.875	7.916	(0.956)	319774	25.0000	27.5(a)	
	39	O,O,O-Triethylphosphorothioat	198	7.968	7.999	(0.967)	221366	25.0000	26.8(a)	
	40	Bis(2-Chloroethoxy)methane	93	7.989	8.019	(0.970)	496740	25.0000	26.9(a)	
	41	Benzoic acid	105	8.072	8.237	(0.980)	129051	25.0000	16.0(aH)	
	42	2,4-Dichlorophenol	162	8.382	8.423	(1.018)	359886	25.0000	29.6(a)	
	43	1,2,4-Trichlorobenzene	180	8.175	8.195	(0.992)	445166	25.0000	27.6(a)	
*	44	Naphthalene-D8	136	8.237	8.257	(1.000)	1790336	40.0000		
	45	Naphthalene	128	8.268	8.288	(1.004)	1229131	25.0000	27.0(a)	
	46	alpha-Terpineol	59	8.330	8.371	(1.011)	217110	25.0000	27.2(a)	
	47	4-Chloroaniline	127	8.382	8.413	(1.018)	505673	25.0000	24.5(a)	
	48	2,6-Dichlorophenol	162	8.382	8.423	(1.018)	359886	25.0000	29.6(a)	
	49	Hexachloropropene	213	8.392	8.402	(1.019)	293434	25.0000	26.9(a)	
	50	Hexachlorobutadiene	225	8.465	8.475	(1.028)	251513	25.0000	26.3(a)	
	51	A,A-Dimethylphenethylamine	58	8.434	8.528	(1.024)	208188	25.0000	61.5(aQ)	
	52	N-Nitroso-Di-N-Butylamine	84	8.868	8.909	(1.077)	272883	25.0000	28.5(a)	
	53	p-Phenylenediamine	108	8.879	8.930	(1.078)	314890	25.0000	32.7(a)	
	54	Caprolactam	113	8.900	9.023	(1.080)	118224	25.0000	26.3(a)	
	55	4-Chloro-3-Methylphenol	107	9.096	9.147	(1.104)	327181	25.0000	22.6(aQ)	
	56	Isosafrole	162	9.127	9.147	(1.108)	368287	25.0000	27.8(a)	
	57	2-Methylnaphthalene	142	9.200	9.220	(1.117)	857604	25.0000	28.3(a)	
	58	1-Methylnaphthalene	142	9.334	9.354	(1.133)	810934	25.0000	26.9(a)	
	59	1,2,4,5-Tetrachlorobenzene	216	9.427	9.448	(0.890)	399282	25.0000	28.0(a)	
	60	Hexachlorocyclopentadiene	237	9.427	9.437	(0.890)	201723	25.0000	26.5(a)	
	61	2,4,6-Trichlorophenol	196	9.614	9.644	(0.907)	281943	25.0000	28.4(a)	
	62	2,4,5-Trichlorophenol	196	9.686	9.717	(0.914)	298577	25.0000	28.0(a)	
$	63	2-Fluorobiphenyl	172	9.728	9.748	(0.918)	862281	25.0000	26.3	
	64	Safrole	104	9.821	9.851	(0.927)	137003	25.0000	27.8(aQ)	
	65	1,1'-Biphenyl	154	9.852	9.882	(0.930)	914557	25.0000	32.5(a)	
	66	2-Chloronaphthalene	127	9.852	9.882	(0.930)	320943	25.0000	24.6(aQ)	
	67	1-Chloronaphthalene	127	9.872	9.903	(0.932)	292344	25.0000	30.0(a)	
	68	Diphenylether	170	9.997	10.017	(0.943)	579116	25.0000	25.5(a)	
	69	2-Nitroaniline	65	10.017	10.048	(0.945)	187614	25.0000	26.7(a)	
	70	1,4-Naphthoquinone	158	10.100	10.120	(0.953)	240115	25.0000	34.3(a)	
	71	1,4-Dinitrobenzene	168	10.224	10.265	(0.965)	145362	25.0000	26.8(a)	
	72	Dimethyl Phthalate	163	10.318	10.358	(0.974)	887457	25.0000	28.4(a)	
	73	1,3-Dinitrobenzene	168	10.318	10.379	(0.974)	149396	25.0000	26.5(a)	
	74	2,6-Dinitrotoluene	165	10.369	10.410	(0.979)	220194	25.0000	29.0(a)	
	75	Acenaphthylene	152	10.400	10.421	(0.981)	1219025	25.0000	27.0(a)	
	76	1,2-Dinitrobenzene	168	10.431	10.483	(0.984)	99198	25.0000	27.0(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1618.D
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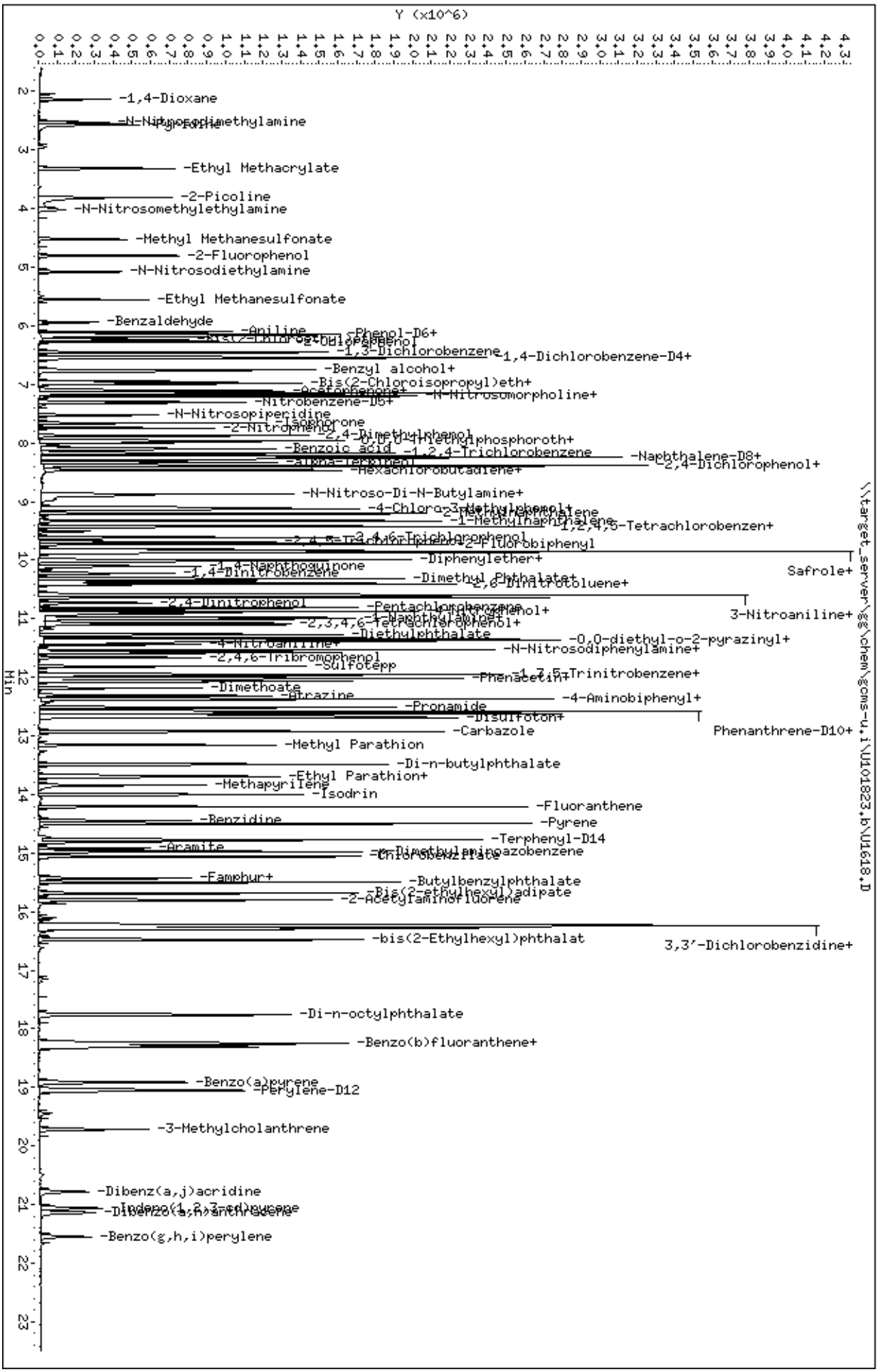
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	77 3-Nitroaniline	138	10.576	10.648	(0.998)	247142	25.0000	28.1(a)	
*	78 Acenaphthene-D10	164	10.597	10.607	(1.000)	1039990	40.0000		
	79 Acenaphthene	153	10.638	10.659	(1.004)	726918	25.0000	27.3(a)	
	80 2,4-Dinitrophenol	184	10.732	10.793	(1.013)	142686	25.0000	26.0(a)	
	81 Pentachlorobenzene	250	10.814	10.845	(1.021)	343791	25.0000	28.9(a)	
	82 4-Nitrophenol	109	10.918	10.979	(1.030)	101955	25.0000	21.8(a)	
	83 Dibenzofuran	168	10.876	10.897	(1.026)	1107544	25.0000	26.1(a)	
	84 2,4-Dinitrotoluene	165	10.907	10.969	(1.029)	291825	25.0000	26.8(a)	
	85 1-Naphthylamine	143	10.990	11.021	(1.037)	835498	25.0000	29.2(a)	
	86 2,3,5,6-Tetrachlorophenol	232	11.011	11.052	(1.039)	223828	25.0000	27.8(a)	
	87 2,3,4,6-Tetrachlorophenol	232	11.073	11.104	(1.045)	222658	25.0000	27.7(a)	
	88 2-Naphthylamine	143	11.104	11.145	(1.048)	762360	25.0000	26.1(a)	
	89 Diethylphthalate	149	11.270	11.311	(1.063)	908996	25.0000	28.8(a)	
	90 O,O-diethyl-o-2-pyrazinylphos	107	11.373	11.424	(1.073)	150440	25.0000	27.6(a)	
	91 Thionazin	107	11.373	11.424	(1.073)	150440	25.0000	27.6(a)	
	92 Fluorene	166	11.332	11.362	(1.069)	870007	25.0000	29.2(a)	
	93 4-Chlorophenyl-phenylether	204	11.373	11.393	(1.073)	419591	25.0000	28.4(a)	
	94 5-Nitro-O-Toluidine	152	11.384	11.456	(1.074)	280756	25.0000	26.5(aQ)	
	95 4-Nitroaniline	138	11.415	11.507	(1.077)	251929	25.0000	27.8(a)	
	96 4,6-Dinitro-2-Methylphenol	198	11.446	11.518	(0.910)	170312	25.0000	27.2(a)	
	97 N-Nitrosodiphenylamine	169	11.539	11.580	(0.917)	752230	25.0000	25.1(a)	
	98 1,2-Diphenylhydrazine	77	11.580	11.600	(0.920)	693965	25.0000	28.6(a)	
	99 Azobenzene	77	11.580	11.600	(0.920)	693965	25.0000	28.6(a)	
$	100 2,4,6-Tribromophenol	330	11.663	11.694	(1.101)	110840	25.0000	27.4	
	101 Sulfotepp	97	11.808	11.839	(0.938)	143967	25.0000	27.4(a)	
	102 1,3,5-Trinitrobenzene	213	11.963	12.066	(0.951)	92419	25.0000	27.5(aQ)	
	103 Diallate	86	11.942	11.973	(0.949)	216894	25.0000	26.9(a)	
	104 Phorate	75	11.953	11.983	(0.950)	592447	25.0000	35.1(a)	
	105 Phenacetin	108	12.025	12.118	(0.956)	391029	25.0000	28.0(a)	
	106 4-Bromophenyl-phenylether	248	12.025	12.046	(0.956)	245403	25.0000	25.6(a)	
	107 Hexachlorobenzene	284	12.067	12.097	(0.959)	261527	25.0000	28.2(a)	
	108 Dimethoate	87	12.181	12.253	(0.968)	265756	25.0000	35.4(a)	
	109 Atrazine	200	12.315	12.356	(0.979)	214099	25.0000	35.9(a)	
	110 4-Aminobiphenyl	169	12.377	12.418	(0.984)	789684	25.0000	20.4(a)	
	111 Pentachlorophenol	266	12.367	12.397	(0.983)	177454	25.0000	28.5(a)	
	112 Pentachloronitrobenzene	237	12.367	12.387	(0.983)	114498	25.0000	28.4(a)	
	113 Pronamide	173	12.512	12.563	(0.994)	410086	25.0000	24.3(a)	
*	114 Phenanthrene-D10	188	12.584	12.615	(1.000)	1769297	40.0000		
	115 Disulfoton	88	12.667	12.698	(1.007)	455913	25.0000	31.8(aQ)	
	116 Phenanthrene	178	12.615	12.656	(1.002)	1144439	25.0000	27.7(a)	
	117 Dinoseb	211	12.646	12.687	(1.005)	227952	25.0000	27.8(a)	
	118 Anthracene	178	12.688	12.729	(1.008)	1206451	25.0000	26.2(a)	
	119 Carbazole	167	12.926	12.967	(1.027)	1199539	25.0000	23.2(a)	
	120 Methyl Parathion	109	13.153	13.174	(1.045)	257108	25.0000	35.5(a)	
	121 Di-n-butylphthalate	149	13.485	13.515	(1.072)	1541738	25.0000	25.1(a)	
	122 Ethyl Parathion	291	13.702	13.733	(1.089)	86000	25.0000	27.9(a)	
	123 Parathion	291	13.702	13.733	(1.089)	86000	25.0000	27.9(a)	
	124 4-Nitroquinoline-1-Oxide	190	13.681	13.712	(1.087)	120888	25.0000	35.0(a)	
	125 Methapyrilene	97	13.837	13.877	(1.100)	358078	25.0000	35.2(a)	
	126 Isodrin	193	14.002	14.012	(1.113)	166613	25.0000	25.2(a)	
	127 Fluoranthene	202	14.209	14.240	(1.129)	1254389	25.0000	21.8(a)	
	128 Pyrene	202	14.499	14.530	(0.892)	1320027	25.0000	23.3(a)	
	129 Benzidine	184	14.447	14.467	(0.889)	478177	25.0000	30.9(a)	
$	130 Terphenyl-D14	244	14.778	14.799	(0.910)	946698	25.0000	22.7	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1618.D
Report Date: 17-Nov-2023 09:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
131	Aramite	185	14.923	14.933	(0.918)	95163	25.0000	24.7(a)	
132	p-Dimethylaminoazobenzene	225	14.975	15.006	(0.922)	281462	25.0000	22.2(a)	
133	Chlorobenzilate	251	15.068	15.088	(0.927)	414009	25.0000	22.5(a)	
134	Famphur	218	15.389	15.399	(0.947)	15320	25.0000	(a)	
135	3,3'-Dimethylbenzidine	212	15.430	15.451	(0.950)	338582	25.0000	31.7(a)	
136	Butylbenzylphthalate	149	15.503	15.513	(0.954)	758897	25.0000	24.8(a)	
137	Bis(2-ethylhexyl)adipate	129	15.689	15.709	(0.966)	608372	25.0000	22.2(a)	
138	2-Acetylaminofluorene	181	15.803	15.834	(0.973)	526650	25.0000	29.8(a)	
139	3,3'-Dichlorobenzidine	252	16.248	16.258	(1.000)	411223	25.0000	27.4(a)	
140	Benzo(a)anthracene	228	16.227	16.248	(0.999)	1260059	25.0000	27.7(a)	
* 141	Chrysene-D12	240	16.248	16.268	(1.000)	1467190	40.0000		
142	Chrysene	228	16.290	16.310	(1.003)	1175977	25.0000	28.2(a)	
143	bis(2-Ethylhexyl)phthalate	149	16.476	16.496	(1.014)	1040456	25.0000	25.4(a)	
145	Di-n-octylphthalate	149	17.759	17.769	(0.932)	1652315	25.0000	17.5(a)	
146	Benzo(b)fluoranthene	252	18.235	18.256	(0.957)	910842	25.0000	28.7(a)	
148	7,12-Dimethylbenz(A)Anthracen	256	18.256	18.276	(0.958)	461719	25.0000	28.4(a)	
149	Benzo(k)fluoranthene	252	18.308	18.328	(0.961)	875133	25.0000	28.5(aH)	
150	Benzo(a)pyrene	252	18.918	18.928	(0.993)	670896	25.0000	27.4(a)	
* 151	Perylene-D12	264	19.053	19.053	(1.000)	863657	40.0000		
152	3-Methylcholanthrene	268	19.715	19.736	(1.035)	272976	25.0000	24.7(a)	
153	Dibenz(a,j)acridine	279	20.781	20.802	(1.091)	218902	25.0000	19.9(a)	
154	Indeno(1,2,3-cd)pyrene	276	21.061	21.081	(1.105)	251787	25.0000	20.1(a)	
155	Dibenzo(a,h)anthracene	278	21.144	21.164	(1.110)	252293	25.0000	20.2(a)	
156	Benzo(g,h,i)perylene	276	21.547	21.578	(1.131)	233735	25.0000	18.9(a)	
M 157	Total PAHs	100				16269647	425.000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101823,b\U1618.D
Date : 18-OCT-2023 10:44
Client ID:
Sample Info: WG344071-3
Column phase: Rxi-5ViOms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101823,b\U1618.D
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine
-Pyridine
-Ethyl Methacrylate
-2-Picoline
-N-Nitrosomethylethylamine
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Aniline
-Phenol-D6+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-Bis(2-Chloroisopropyl)eth+
-Acetophenone
-N-Nitrosomorpholine+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-Benzoic acid
-1,2,4-Trichlorobenzene
-Naphthalene-D8+
-alpha-Terpineol
-Hexachlorobutadiene+
2,4-Dichlorophenol+
-N-Nitroso-Di-N-Butylamine+
-4-Chloro-3-Methylphenol+
-2-Methylnaphthalene
-1-Methylnaphthalene
1,2,4,5-Tetrachlorobenzen+
-2,4,6-Trichlorophenol
-2,4,5-Trichlorophenol+2-Fluorobiphenyl
-Diphenylether+
Safrole+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-2,6-Dinitrotoluene+
-2,4-Dinitrophenol
-Pentachlorobenzene
-4-Nitrophenol+
3-Nitroaniline+
-2,3,4,6-Tetrachlorophenol+
-Diethylphthalate
-0,0-diethyl-o-2-pyrazinyl+
-4-Nitroaniline+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-Sulfotepp
-Phenacetin+
-1,3,5-Trinitrobenzene+
-Dimethoate
-Atrazine
-4-Aminobiphenyl+
-Pronamide
-Disulfoton+
Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Famphur+
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-bis(2-Ethylhexyl)phthalat
3,3'-Dichlorobenzidine+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene
-Dibenzo(a,h)anthracene
-Benzo(g,h,i)perylene

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1619.D
Report Date: 17-Nov-2023 09:41

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1619.D
Lab Smp Id: WG344071-2
Inj Date : 18-OCT-2023 11:14
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344071-2
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 17-Nov-2023 09:41 gcms-u.i   Quant Type: ISTD
Cal Date : 18-OCT-2023 11:14   Cal File: U1619.D
Als bottle: 4   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M))*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.122	2.182	(0.258)	32457	10.0000	11.1(a)	
	2 N-Nitrosodimethylamine	42	2.515	2.617	(0.385)	53717	10.0000	11.4(a)	
	3 Pyridine	79	2.567	2.627	(0.393)	166986	10.0000	11.1(a)	
	4 Ethyl Methacrylate	69	3.302	3.362	(0.506)	132745	10.0000	11.3(a)	
	5 2-Picoline	93	3.809	3.828	(0.583)	205709	10.0000	11.2(a)	
	6 N-Nitrosomethylethylamine	88	4.016	4.066	(0.615)	73473	10.0000	10.6(a)	
	7 Methyl Methanesulfonate	80	4.513	4.573	(0.691)	97627	10.0000	11.3(a)	
$	8 2-Fluorophenol	112	4.792	4.821	(0.734)	181054	10.0000	11.4(a)	
	9 N-Nitrosodiethylamine	102	5.071	5.121	(0.777)	84726	10.0000	10.7(a)	
	10 Ethyl Methanesulfonate	79	5.548	5.597	(0.849)	126096	10.0000	11.4(a)	
	11 Benzaldehyde	77	5.941	5.949	(0.910)	36593	10.0000	8.63(a)	
$	12 Phenol-D6	99	6.158	6.187	(0.943)	184564	10.0000	11.5(a)	
	13 Aniline	93	6.106	6.136	(0.935)	243599	10.0000	11.7(a)	
	14 Phenol	94	6.179	6.208	(0.946)	194718	10.0000	10.9(a)	
	15 Pentachloroethane	117	6.148	6.156	(0.941)	79717	10.0000	12.3(a)	
	16 Bis(2-Chloroethyl)ether	93	6.231	6.260	(0.954)	157322	10.0000	11.7(a)	
	17 2-Chlorophenol	128	6.272	6.291	(0.960)	206199	10.0000	11.9(a)	
	18 1,3-Dichlorobenzene	146	6.448	6.467	(0.987)	240246	10.0000	10.3(a)	
*	19 1,4-Dichlorobenzene-D4	152	6.531	6.550	(1.000)	581164	40.0000		
	20 1,4-Dichlorobenzene	146	6.562	6.570	(1.005)	230676	10.0000	10.7(a)	
	21 Benzyl alcohol	108	6.769	6.819	(1.036)	117069	10.0000	10.8(a)	
	22 1,2-Dichlorobenzene	146	6.748	6.767	(1.033)	233574	10.0000	9.92(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1619.D
Report Date: 17-Nov-2023 09:41

EP
11:05 am, Nov 17, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	23 Bis(2-Chloroisopropyl)ether	45	6.955	6.974	(1.065)	144068	10.0000	11.7(aQ)	
	24 2,2'-Oxybis(1-chloropropane)	45	6.955	6.974	(1.065)	144068	10.0000	11.7(aQ)	
	25 2-Methylphenol	108	6.976	7.046	(1.068)	167655	10.0000	11.1(a)	
	26 Acetophenone	105	7.100	7.140	(0.862)	240991	10.0000	11.8(a)	
	27 N-Nitrosopyrrolidine	100	7.069	7.191	(1.082)	84175	10.0000	8.01(a)	
	28 N-Nitrosomorpholine	56	7.141	7.222	(1.093)	63801	10.0000	12.3(a)	
	29 N-Nitroso-di-n-propylamine	70	7.131	7.202	(1.092)	100723	10.0000	9.89(a)	
	30 3&4-Methylphenol	108	7.183	7.243	(1.100)	170011	10.0000	11.7(a)	
	31 o-Toluidine	106	7.141	7.181	(1.093)	265266	10.0000	12.5(a)	
	32 Hexachloroethane	117	7.193	7.212	(1.101)	88245	10.0000	9.51(a)	
$	33 Nitrobenzene-D5	82	7.286	7.326	(0.884)	157715	10.0000	11.9	
	34 Nitrobenzene	77	7.307	7.357	(0.887)	153624	10.0000	12.0(a)	
	35 N-Nitrosopiperidine	114	7.514	7.574	(0.912)	91021	10.0000	11.0(a)	
	36 Isophorone	82	7.659	7.698	(0.930)	291919	10.0000	12.0(a)	
	37 2-Nitrophenol	139	7.742	7.771	(0.940)	113737	10.0000	11.4(a)	
	38 2,4-Dimethylphenol	107	7.876	7.916	(0.956)	135004	10.0000	11.8(a)	
	39 O,O,O-Triethylphosphorothioat	198	7.959	7.999	(0.966)	94417	10.0000	11.7(a)	
	40 Bis(2-Chloroethoxy)methane	93	7.980	8.019	(0.969)	190456	10.0000	10.5(a)	
	41 Benzoic acid	105	8.073	8.237	(0.980)	43121	10.0000	5.48(a)	
	42 2,4-Dichlorophenol	162	8.383	8.423	(1.018)	163396	10.0000	13.7(a)	
	43 1,2,4-Trichlorobenzene	180	8.176	8.195	(0.992)	186853	10.0000	11.2(a)	
*	44 Naphthalene-D8	136	8.239	8.257	(1.000)	1750993	40.0000		
	45 Naphthalene	128	8.259	8.288	(1.002)	541026	10.0000	10.5(a)	
	46 alpha-Terpineol	59	8.332	8.371	(1.011)	94521	10.0000	12.1(a)	
	47 4-Chloroaniline	127	8.373	8.413	(1.016)	216353	10.0000	9.02(a)	
	48 2,6-Dichlorophenol	162	8.383	8.423	(1.018)	163396	10.0000	13.7(a)	
	49 Hexachloropropene	213	8.394	8.402	(1.019)	126292	10.0000	11.1(a)	
	50 Hexachlorobutadiene	225	8.456	8.475	(1.026)	105115	10.0000	10.4(a)	
	51 A,A-Dimethylphenethylamine	58	8.311	8.528	(1.009)	32438	10.0000	9.80(aQ)	
	52 N-Nitroso-Di-N-Butylamine	84	8.860	8.909	(1.075)	127157	10.0000	13.2(a)	
	53 p-Phenylenediamine	108	8.870	8.930	(1.077)	139341	10.0000	14.8(a)	
	54 Caprolactam	113	8.860	9.023	(1.075)	48528	10.0000	11.0(a)	
	55 4-Chloro-3-Methylphenol	107	9.098	9.147	(1.104)	145333	10.0000	8.93(a)	
	56 Isosafrole	162	9.118	9.147	(1.107)	153113	10.0000	11.8(a)	
	57 2-Methylnaphthalene	142	9.201	9.220	(1.117)	378134	10.0000	12.1(a)	
	58 1-Methylnaphthalene	142	9.325	9.354	(1.132)	345942	10.0000	10.6(a)	
	59 1,2,4,5-Tetrachlorobenzene	216	9.429	9.448	(0.890)	176108	10.0000	11.1(a)	
	60 Hexachlorocyclopentadiene	237	9.429	9.437	(0.890)	83925	10.0000	9.68(a)	
	61 2,4,6-Trichlorophenol	196	9.615	9.644	(0.907)	118930	10.0000	11.5(a)	
	62 2,4,5-Trichlorophenol	196	9.688	9.717	(0.914)	122771	10.0000	11.0(a)	
$	63 2-Fluorobiphenyl	172	9.719	9.748	(0.917)	377048	10.0000	9.70	
	64 Safrole	104	9.822	9.851	(0.927)	57850	10.0000	11.2(a)	
	65 1,1'-Biphenyl	154	9.843	9.882	(0.929)	408567	10.0000	13.9(a)	
	66 2-Chloronaphthalene	127	9.843	9.882	(0.929)	168874	10.0000	12.4(a)	
	67 1-Chloronaphthalene	127	9.874	9.903	(0.932)	110266	10.0000	10.8(a)	
	68 Diphenylether	170	9.998	10.017	(0.943)	258295	10.0000	9.86(a)	
	69 2-Nitroaniline	65	10.019	10.048	(0.945)	82935	10.0000	11.3(a)	
	70 1,4-Naphthoquinone	158	10.102	10.120	(0.953)	121565	10.0000	16.6(a)	
	71 1,4-Dinitrobenzene	168	10.215	10.265	(0.964)	55966	10.0000	9.89(a)	
	72 Dimethyl Phthalate	163	10.309	10.358	(0.973)	389149	10.0000	11.9(aM)	M6
	73 1,3-Dinitrobenzene	168	10.309	10.379	(0.973)	60166	10.0000	10.2(a)	
	74 2,6-Dinitrotoluene	165	10.360	10.410	(0.978)	88216	10.0000	11.1(a)	
	75 Acenaphthylene	152	10.391	10.421	(0.980)	544335	10.0000	9.58(a)	
	76 1,2-Dinitrobenzene	168	10.412	10.483	(0.982)	38375	10.0000	9.99(aQ)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1619.D
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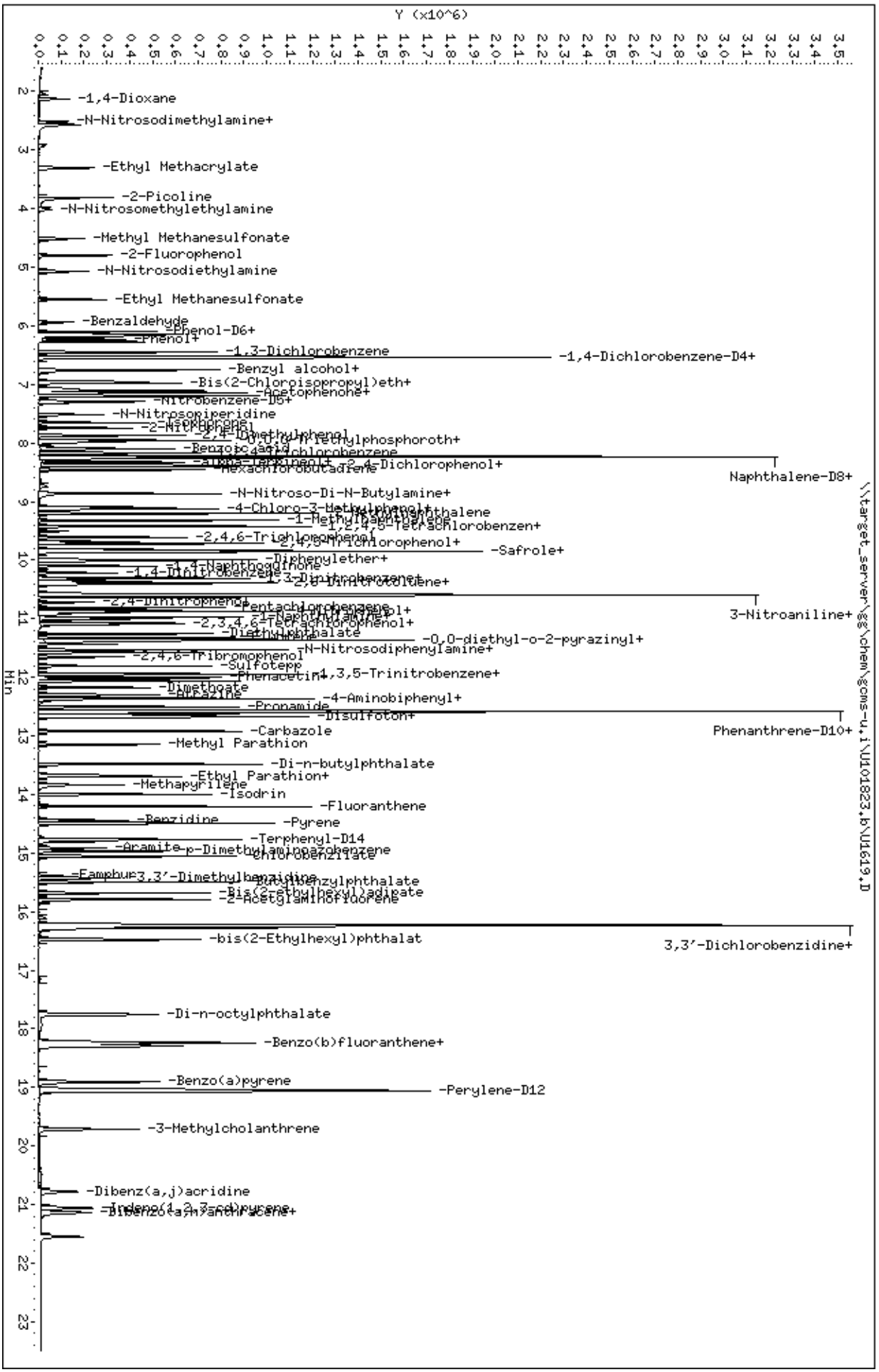
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	77 3-Nitroaniline	138	10.578	10.648	(0.998)	101821	10.0000	11.1(a)	
*	78 Acenaphthene-D10	164	10.598	10.607	(1.000)	1085717	40.0000		
	79 Acenaphthene	153	10.629	10.659	(1.003)	328631	10.0000	10.9(a)	
	80 2,4-Dinitrophenol	184	10.723	10.793	(1.012)	50104	10.0000	8.76(a)	
	81 Pentachlorobenzene	250	10.816	10.845	(1.021)	145977	10.0000	11.8(a)	
	82 4-Nitrophenol	109	10.919	10.979	(1.030)	37339	10.0000	5.97(a)	
	83 Dibenzofuran	168	10.868	10.897	(1.025)	486000	10.0000	9.23(a)	
	84 2,4-Dinitrotoluene	165	10.899	10.969	(1.028)	121635	10.0000	10.7(a)	
	85 1-Naphthylamine	143	10.981	11.021	(1.036)	360799	10.0000	12.1(a)	
	86 2,3,5,6-Tetrachlorophenol	232	11.002	11.052	(1.038)	88162	10.0000	10.5(a)	
	87 2,3,4,6-Tetrachlorophenol	232	11.064	11.104	(1.044)	87539	10.0000	10.4(a)	
	88 2-Naphthylamine	143	11.095	11.145	(1.047)	320649	10.0000	9.49(a)	
	89 Diethylphthalate	149	11.261	11.311	(1.062)	385251	10.0000	11.7(a)	
	90 O,O-diethyl-o-2-pyrazinylphos	107	11.364	11.424	(1.072)	65404	10.0000	11.5(a)	
	91 Thionazin	107	11.364	11.424	(1.072)	65404	10.0000	11.5(a)	
	92 Fluorene	166	11.333	11.362	(1.069)	384531	10.0000	12.4(a)	
	93 4-Chlorophenyl-phenylether	204	11.364	11.393	(1.072)	179023	10.0000	11.6(a)	
	94 5-Nitro-O-Toluidine	152	11.375	11.456	(1.073)	115083	10.0000	10.4(a)	
	95 4-Nitroaniline	138	11.395	11.507	(1.075)	96442	10.0000	10.2(a)	
	96 4,6-Dinitro-2-Methylphenol	198	11.437	11.518	(0.909)	66129	10.0000	10.4(a)	
	97 N-Nitrosodiphenylamine	169	11.530	11.580	(0.916)	328196	10.0000	9.26(a)	
	98 1,2-Diphenylhydrazine	77	11.571	11.600	(0.919)	299365	10.0000	10.5(a)	
	99 Azobenzene	77	11.571	11.600	(0.919)	299365	10.0000	10.5(a)	
$	100 2,4,6-Tribromophenol	330	11.654	11.694	(1.100)	44488	10.0000	10.5	
	101 Sulfotepp	97	11.809	11.839	(0.938)	61352	10.0000	10.6(a)	
	102 1,3,5-Trinitrobenzene	213	11.944	12.066	(0.949)	34934	10.0000	10.3(aQ)	
	103 Diallate	86	11.944	11.973	(0.949)	90356	10.0000	10.2(a)	
	104 Phorate	75	11.944	11.983	(0.949)	251242	10.0000	14.7(a)	
	105 Phenacetin	108	12.006	12.118	(0.954)	167743	10.0000	11.9(a)	
	106 4-Bromophenyl-phenylether	248	12.016	12.046	(0.955)	105163	10.0000	9.81(a)	
	107 Hexachlorobenzene	284	12.058	12.097	(0.958)	108764	10.0000	11.0(a)	
	108 Dimethoate	87	12.172	12.253	(0.967)	129092	10.0000	17.0(a)	
	109 Atrazine	200	12.306	12.356	(0.978)	101779	10.0000	16.9(a)	
	110 4-Aminobiphenyl	169	12.368	12.418	(0.983)	360533	10.0000	7.37(a)	
	111 Pentachlorophenol	266	12.358	12.397	(0.982)	63204	10.0000	10.0(a)	
	112 Pentachloronitrobenzene	237	12.358	12.387	(0.982)	47321	10.0000	11.6(a)	
	113 Pronamide	173	12.503	12.563	(0.993)	181918	10.0000	9.64(a)	
*	114 Phenanthrene-D10	188	12.586	12.615	(1.000)	1789959	40.0000		
	115 Disulfoton	88	12.658	12.698	(1.006)	195469	10.0000	13.5(a)	
	116 Phenanthrene	178	12.606	12.656	(1.002)	514402	10.0000	11.0(a)	
	117 Dinoseb	211	12.637	12.687	(1.004)	86522	10.0000	10.4(a)	
	118 Anthracene	178	12.679	12.729	(1.007)	526668	10.0000	9.58(a)	
	119 Carbazole	167	12.927	12.967	(1.027)	526763	10.0000	7.74(a)	
	120 Methyl Parathion	109	13.145	13.174	(1.044)	121784	10.0000	16.6(a)	
	121 Di-n-butylphthalate	149	13.486	13.515	(1.072)	675518	10.0000	8.13(a)	
	122 Ethyl Parathion	291	13.693	13.733	(1.088)	34186	10.0000	11.0(a)	
	123 Parathion	291	13.693	13.733	(1.088)	34186	10.0000	11.0(a)	
	124 4-Nitroquinoline-1-Oxide	190	13.672	13.712	(1.086)	40087	10.0000	11.5(a)	
	125 Methapyrilene	97	13.838	13.877	(1.100)	167463	10.0000	16.3(a)	
	126 Isodrin	193	13.993	14.012	(1.112)	70670	10.0000	9.43(a)	
	127 Fluoranthene	202	14.200	14.240	(1.128)	564139	10.0000	7.25(a)	
	128 Pyrene	202	14.490	14.530	(0.892)	600652	10.0000	10.0(a)	
	129 Benzidine	184	14.438	14.467	(0.889)	207032	10.0000	12.7(a)	
$	130 Terphenyl-D14	244	14.770	14.799	(0.909)	416867	10.0000	9.50	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1619.D
Report Date: 17-Nov-2023 09:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
131	Aramite	185	14.914	14.933	(0.918)	37531	10.0000	9.26(a)	
132	p-Dimethylaminoazobenzene	225	14.977	15.006	(0.922)	114729	10.0000	8.59(a)	
133	Chlorobenzilate	251	15.059	15.088	(0.927)	171404	10.0000	8.85(a)	
134	Famphur	218	15.391	15.399	(0.948)	51249	10.0000	(a)	
135	3,3'-Dimethylbenzidine	212	15.432	15.451	(0.950)	166099	10.0000	14.8(a)	
136	Butylbenzylphthalate	149	15.494	15.513	(0.954)	315850	10.0000	9.79(a)	
137	Bis(2-ethylhexyl)adipate	129	15.680	15.709	(0.966)	242225	10.0000	8.40(a)	
138	2-Acetylaminofluorene	181	15.794	15.834	(0.973)	247316	10.0000	9.61(a)	
139	3,3'-Dichlorobenzidine	252	16.239	16.258	(1.000)	194472	10.0000	9.28(a)	
140	Benzo(a)anthracene	228	16.219	16.248	(0.999)	545087	10.0000	11.4(a)	
* 141	Chrysene-D12	240	16.239	16.268	(1.000)	1544776	40.0000		
142	Chrysene	228	16.281	16.310	(1.003)	512501	10.0000	11.7(a)	
143	bis(2-Ethylhexyl)phthalate	149	16.477	16.496	(1.015)	419209	10.0000	9.71(a)	
145	Di-n-octylphthalate	149	17.750	17.769	(0.932)	693957	10.0000	7.65(a)	
146	Benzo(b)fluoranthene	252	18.237	18.256	(0.957)	528469	10.0000	10.2(a)	
148	7,12-Dimethylbenz(A)Anthracen	256	18.247	18.276	(0.958)	242044	10.0000	9.17(a)	
149	Benzo(k)fluoranthene	252	18.299	18.328	(0.960)	512744	10.0000	10.3(aH)	
150	Benzo(a)pyrene	252	18.910	18.928	(0.992)	426880	10.0000	10.7(a)	
* 151	Perylene-D12	264	19.054	19.053	(1.000)	1403358	40.0000		
152	3-Methylcholanthrene	268	19.717	19.736	(1.035)	201088	10.0000	11.2(a)	
153	Dibenz(a,j)acridine	279	20.783	20.802	(1.091)	154495	10.0000	8.83(a)	
154	Indeno(1,2,3-cd)pyrene	276	21.062	21.081	(1.105)	183170	10.0000	9.19(a)	
155	Dibenzo(a,h)anthracene	278	21.135	21.164	(1.109)	188510	10.0000	9.52(a)	
156	Benzo(g,h,i)perylene	276	21.549	21.578	(1.131)	160579	10.0000	8.17(a)	
M 157	Total PAHs	100				7786400	170.000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101823,b\U1619,D
Date : 18-OCT-2023 11:14
Client ID:
Sample Info: WG344071-2
Column phase: Rxi-5VOCms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-Ethyl Methacrylate
-2-Picoline
-N-Nitrosomethylethylamine
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Phenol-D6+
-Phenol+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-Bis(2-Chloroisopropyl)eth+
-Acetophenone+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-2-Nitrophenol
-2,4-Dimethylphenol
-Benzoic acid
-Hexachlorobutadiene
-2,4-Dichlorophenol+
Naphthalene-D8+
-N-Nitroso-Di-N-Butylamine+
-4-Chloro-3-Methylphenol+
-1-Methylnaphthalene
-2,4,6-Trichlorophenol
-2,4,5-Trichlorophenol+
-Safrole+
-Diphenylether+
-1,4-Dinitrobenzene
-2,6-Dinitrotoluene+
-2,4-Dinitrophenol
-Pentachlorobenzene
-1-Naphthylamine
-2,3,4,6-Tetrachlorophenol+
3-Nitroaniline+
-Diethylphthalate
-O,O-diethyl-o-2-pyrazinyl+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-Sulfotepp
-Phenacetin
1,3,5-Trinitrobenzene+
-Dimethoate
-4-Aminobiphenyl+
-Pronamide
-Disulfoton+
Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Famphur
3,3'-Dimethylbenzidine
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-bis(2-Ethylhexyl)phthalat
3,3'-Dichlorobenzidine+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene+
-Dibenz(a,h)anthracene+
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Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1620.D
Report Date: 17-Nov-2023 09:41

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1620.D
Lab Smp Id: WG344071-5
Inj Date : 18-OCT-2023 11:45
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344071-5
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 17-Nov-2023 09:41 gcms-u.i   Quant Type: ISTD
Cal Date : 18-OCT-2023 11:45   Cal File: U1620.D
Als bottle: 5   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M))*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.152	2.182	(0.261)	226274	75.0000	70.3(a)	
	2 N-Nitrosodimethylamine	42	2.566	2.617	(0.392)	352096	75.0000	71.1(a)	
	3 Pyridine	79	2.587	2.627	(0.396)	1080382	75.0000	68.5(a)	
	4 Ethyl Methacrylate	69	3.332	3.362	(0.509)	859119	75.0000	69.8(a)	
	5 2-Picoline	93	3.808	3.828	(0.582)	1341746	75.0000	69.8(a)	
	6 N-Nitrosomethylethylamine	88	4.046	4.066	(0.619)	518923	75.0000	71.3(a)	
	7 Methyl Methanesulfonate	80	4.543	4.573	(0.695)	666545	75.0000	73.4(a)	
$	8 2-Fluorophenol	112	4.802	4.821	(0.734)	1173748	75.0000	70.2(a)	
	9 N-Nitrosodiethylamine	102	5.102	5.121	(0.780)	612222	75.0000	74.0(a)	
	10 Ethyl Methanesulfonate	79	5.578	5.597	(0.853)	802949	75.0000	69.2(a)	
	11 Benzaldehyde	77	5.951	5.949	(0.910)	193081	75.0000	76.3(a)	
$	12 Phenol-D6	99	6.168	6.187	(0.943)	1178422	75.0000	70.0(a)	
	13 Aniline	93	6.126	6.136	(0.937)	1544092	75.0000	70.8(a)	
	14 Phenol	94	6.189	6.208	(0.946)	1353759	75.0000	72.6(a)	
	15 Pentachloroethane	117	6.158	6.156	(0.941)	472085	75.0000	69.4(a)	
	16 Bis(2-Chloroethyl)ether	93	6.251	6.260	(0.956)	987578	75.0000	70.0(a)	
	17 2-Chlorophenol	128	6.282	6.291	(0.960)	1244423	75.0000	68.6(a)	
	18 1,3-Dichlorobenzene	146	6.458	6.467	(0.987)	1397620	75.0000	73.4(a)	
*	19 1,4-Dichlorobenzene-D4	152	6.540	6.550	(1.000)	609574	40.0000	(Q)	
	20 1,4-Dichlorobenzene	146	6.572	6.570	(1.005)	1379556	75.0000	75.7(a)	
	21 Benzyl alcohol	108	6.799	6.819	(1.040)	811947	75.0000	71.5(a)	
	22 1,2-Dichlorobenzene	146	6.758	6.767	(1.033)	1313870	75.0000	71.6(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1620.D
Report Date: 17-Nov-2023 09:41

EP
11:06 am, Nov 17, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	23 Bis(2-Chloroisopropyl)ether	45	6.965	6.974	(1.065)	897286	75.0000	69.7(aQ)	
	24 2,2'-Oxybis(1-chloropropane)	45	6.965	6.974	(1.065)	895046	75.0000	69.6(aQ)	
	25 2-Methylphenol	108	7.027	7.046	(1.074)	1120456	75.0000	70.5(aM)	M9
	26 Acetophenone	105	7.120	7.140	(0.863)	1541763	75.0000	68.8(a)	
	27 N-Nitrosopyrrolidine	100	7.151	7.191	(1.093)	537281	75.0000	75.6(aQM)	M9
	28 N-Nitrosomorpholine	56	7.193	7.222	(1.100)	401857	75.0000	73.8(a)	
	29 N-Nitroso-di-n-propylamine	70	7.182	7.202	(1.098)	594266	75.0000	74.3(a)	
	30 3&4-Methylphenol	108	7.213	7.243	(1.103)	1053396	75.0000	69.0(aH)	
	31 o-Toluidine	106	7.172	7.181	(1.097)	1473816	75.0000	66.4(aH)	
	32 Hexachloroethane	117	7.203	7.212	(1.101)	522259	75.0000	75.0(a)	
$	33 Nitrobenzene-D5	82	7.306	7.326	(0.886)	997371	75.0000	68.4	
	34 Nitrobenzene	77	7.337	7.357	(0.890)	928803	75.0000	66.3(a)	
	35 N-Nitrosopiperidine	114	7.555	7.574	(0.916)	636113	75.0000	70.0(a)	
	36 Isophorone	82	7.679	7.698	(0.931)	1822712	75.0000	68.0(a)	
	37 2-Nitrophenol	139	7.762	7.771	(0.941)	810616	75.0000	73.7(a)	
	38 2,4-Dimethylphenol	107	7.896	7.916	(0.957)	859869	75.0000	68.7(a)	
	39 O,O,O-Triethylphosphorothioat	198	7.979	7.999	(0.967)	623448	75.0000	70.3(a)	
	40 Bis(2-Chloroethoxy)methane	93	8.010	8.019	(0.971)	1502908	75.0000	75.6(a)	
	41 Benzoic acid	105	8.165	8.237	(0.990)	731892	75.0000	81.6(a)	
	42 2,4-Dichlorophenol	162	8.404	8.423	(1.019)	878133	75.0000	67.9(a)	
	43 1,2,4-Trichlorobenzene	180	8.186	8.195	(0.992)	1120736	75.0000	72.9(a)	
*	44 Naphthalene-D8	136	8.248	8.257	(1.000)	1924670	40.0000		
	45 Naphthalene	128	8.279	8.288	(1.004)	2823581	75.0000	74.3(a)	
	46 alpha-Terpineol	59	8.352	8.371	(1.013)	588178	75.0000	68.5(a)	
	47 4-Chloroaniline	127	8.393	8.413	(1.018)	1237974	75.0000	76.1(a)	
	48 2,6-Dichlorophenol	162	8.404	8.423	(1.019)	878133	75.0000	67.9(a)	
	49 Hexachloropropene	213	8.393	8.402	(1.018)	738009	75.0000	72.0(a)	
	50 Hexachlorobutadiene	225	8.466	8.475	(1.026)	637114	75.0000	72.7(a)	
	51 A,A-Dimethylphenethylamine	58	8.528	8.528	(1.034)	67840	75.0000	18.6(aQ)	
	52 N-Nitroso-Di-N-Butylamine	84	8.880	8.909	(1.077)	688337	75.0000	71.8(a)	
	53 p-Phenylenediamine	108	8.911	8.930	(1.080)	745586	75.0000	72.0(a)	
	54 Caprolactam	113	8.983	9.023	(1.089)	358377	75.0000	74.2(a)	
	55 4-Chloro-3-Methylphenol	107	9.128	9.147	(1.107)	879617	75.0000	76.6(aQ)	
	56 Isosafrole	162	9.138	9.147	(1.108)	960031	75.0000	67.5(a)	
	57 2-Methylnaphthalene	142	9.211	9.220	(1.117)	2150576	75.0000	74.7(a)	
	58 1-Methylnaphthalene	142	9.345	9.354	(1.133)	2017425	75.0000	75.9(a)	
	59 1,2,4,5-Tetrachlorobenzene	216	9.439	9.448	(0.890)	1031317	75.0000	72.4(a)	
	60 Hexachlorocyclopentadiene	237	9.439	9.437	(0.890)	523103	75.0000	71.3(a)	
	61 2,4,6-Trichlorophenol	196	9.635	9.644	(0.908)	772127	75.0000	68.6(a)	
	62 2,4,5-Trichlorophenol	196	9.697	9.717	(0.914)	840254	75.0000	69.5(a)	
$	63 2-Fluorobiphenyl	172	9.739	9.748	(0.918)	2123982	75.0000	70.9	
	64 Safrole	104	9.842	9.851	(0.928)	383414	75.0000	68.5(aQ)	
	65 1,1'-Biphenyl	154	9.863	9.882	(0.930)	1895537	75.0000	59.4(a)	
	66 2-Chloronaphthalene	127	9.873	9.882	(0.931)	1086430	75.0000	73.4(aQ)	
	67 1-Chloronaphthalene	127	9.894	9.903	(0.933)	666729	75.0000	60.3(aQH)	
	68 Diphenylether	170	10.008	10.017	(0.943)	1488555	75.0000	70.3(a)	
	69 2-Nitroaniline	65	10.039	10.048	(0.946)	534995	75.0000	67.1(a)	
	70 1,4-Naphthoquinone	158	10.111	10.120	(0.953)	351828	75.0000	44.3(a)	
	71 1,4-Dinitrobenzene	168	10.246	10.265	(0.966)	440522	75.0000	71.7(a)	
	72 Dimethyl Phthalate	163	10.339	10.358	(0.975)	2284734	75.0000	64.6(a)	
	73 1,3-Dinitrobenzene	168	10.360	10.379	(0.977)	450457	75.0000	70.6(a)	
	74 2,6-Dinitrotoluene	165	10.391	10.410	(0.980)	576751	75.0000	66.9(a)	
	75 Acenaphthylene	152	10.411	10.421	(0.981)	2811262	75.0000	68.1(a)	
	76 1,2-Dinitrobenzene	168	10.453	10.483	(0.985)	293379	75.0000	70.3(aQ)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1620.D
Report Date: 17-Nov-2023 09:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	77 3-Nitroaniline	138	10.618	10.648	(1.001)	698739	75.0000	70.0(a)	
*	78 Acenaphthene-D10	164	10.608	10.607	(1.000)	1179174	40.0000		
	79 Acenaphthene	153	10.649	10.659	(1.004)	1798048	75.0000	69.3(a)	
	80 2,4-Dinitrophenol	184	10.763	10.793	(1.015)	454127	75.0000	73.1(a)	
	81 Pentachlorobenzene	250	10.825	10.845	(1.020)	913966	75.0000	67.8(a)	
	82 4-Nitrophenol	109	10.950	10.979	(1.032)	268370	75.0000	73.3(a)	
	83 Dibenzofuran	168	10.888	10.897	(1.026)	2543610	75.0000	67.8(a)	
	84 2,4-Dinitrotoluene	165	10.939	10.969	(1.031)	829550	75.0000	67.1(a)	
	85 1-Naphthylamine	143	11.012	11.021	(1.038)	2225953	75.0000	68.8(a)	
	86 2,3,5,6-Tetrachlorophenol	232	11.032	11.052	(1.040)	633113	75.0000	69.4(a)	
	87 2,3,4,6-Tetrachlorophenol	232	11.084	11.104	(1.045)	645640	75.0000	70.8(a)	
	88 2-Naphthylamine	143	11.126	11.145	(1.049)	1938131	75.0000	70.6(a)	
	89 Diethylphthalate	149	11.291	11.311	(1.064)	2435201	75.0000	67.9(a)	
	90 O,O-diethyl-o-2-pyrazinylphos	107	11.395	11.424	(1.074)	409624	75.0000	66.3(a)	
	91 Thionazin	107	11.395	11.424	(1.074)	409624	75.0000	66.3(a)	
	92 Fluorene	166	11.343	11.362	(1.069)	2241680	75.0000	66.4(a)	
	93 4-Chlorophenyl-phenylether	204	11.384	11.393	(1.073)	1167408	75.0000	69.7(a)	
	94 5-Nitro-O-Toluidine	152	11.426	11.456	(1.077)	836709	75.0000	69.7(aQ)	
	95 4-Nitroaniline	138	11.467	11.507	(1.081)	787300	75.0000	76.5(a)	
	96 4,6-Dinitro-2-Methylphenol	198	11.488	11.518	(0.912)	550108	75.0000	74.3(a)	
	97 N-Nitrosodiphenylamine	169	11.560	11.580	(0.918)	1926533	75.0000	70.8(a)	
	98 1,2-Diphenylhydrazine	77	11.591	11.600	(0.920)	1716265	75.0000	66.4(aH)	
	99 Azobenzene	77	11.591	11.600	(0.920)	1716265	75.0000	66.4(aH)	
$	100 2,4,6-Tribromophenol	330	11.685	11.694	(1.101)	324856	75.0000	70.8	
	101 Sulfotepp	97	11.829	11.839	(0.939)	376221	75.0000	71.0(a)	
	102 1,3,5-Trinitrobenzene	213	12.016	12.066	(0.954)	277445	75.0000	70.0(aQ)	
	103 Diallate	86	11.964	11.973	(0.950)	576102	75.0000	71.4(a)	
	104 Phorate	75	11.974	11.983	(0.951)	1122885	75.0000	56.4(a)	
	105 Phenacetin	108	12.078	12.118	(0.959)	1035414	75.0000	62.9(a)	
	106 4-Bromophenyl-phenylether	248	12.036	12.046	(0.956)	662755	75.0000	71.0(a)	
	107 Hexachlorobenzene	284	12.078	12.097	(0.959)	684721	75.0000	69.5(a)	
	108 Dimethoate	87	12.223	12.253	(0.970)	497322	75.0000	56.1(a)	
	109 Atrazine	200	12.337	12.356	(0.979)	384922	75.0000	54.7(a)	
	110 4-Aminobiphenyl	169	12.399	12.418	(0.984)	2031054	75.0000	78.0(a)	
	111 Pentachlorophenol	266	12.378	12.397	(0.983)	521303	75.0000	70.9(a)	
	112 Pentachloronitrobenzene	237	12.378	12.387	(0.983)	323826	75.0000	68.1(a)	
	113 Pronamide	173	12.544	12.563	(0.996)	1166595	75.0000	72.8(a)	
*	114 Phenanthrene-D10	188	12.595	12.615	(1.000)	2088407	40.0000		
	115 Disulfoton	88	12.678	12.698	(1.007)	1104137	75.0000	65.4(a)	
	116 Phenanthrene	178	12.637	12.656	(1.003)	2840063	75.0000	70.5(a)	
	117 Dinoseb	211	12.668	12.687	(1.006)	696178	75.0000	71.8(a)	
	118 Anthracene	178	12.709	12.729	(1.009)	2997962	75.0000	71.2(a)	
	119 Carbazole	167	12.947	12.967	(1.028)	3122409	75.0000	76.2(a)	
	120 Methyl Parathion	109	13.165	13.174	(1.045)	474293	75.0000	55.5(a)	
	121 Di-n-butylphthalate	149	13.496	13.515	(1.071)	3714410	75.0000	74.9(a)	
	122 Ethyl Parathion	291	13.713	13.733	(1.089)	250005	75.0000	68.8(aQ)	
	123 Parathion	291	13.713	13.733	(1.089)	250005	75.0000	68.8(aQ)	
	124 4-Nitroquinoline-1-Oxide	190	13.703	13.712	(1.088)	271319	75.0000	66.6(a)	
	125 Methapyrilene	97	13.858	13.877	(1.100)	685758	75.0000	57.2(a)	
	126 Isodrin	193	14.003	14.012	(1.112)	458405	75.0000	73.1(a)	
	127 Fluoranthene	202	14.231	14.240	(1.130)	3357992	75.0000	77.9(a)	
	128 Pyrene	202	14.520	14.530	(0.893)	3240525	75.0000	71.3(a)	
	129 Benzidine	184	14.458	14.467	(0.889)	897397	75.0000	72.4(a)	
$	130 Terphenyl-D14	244	14.790	14.799	(0.910)	2382175	75.0000	71.4	

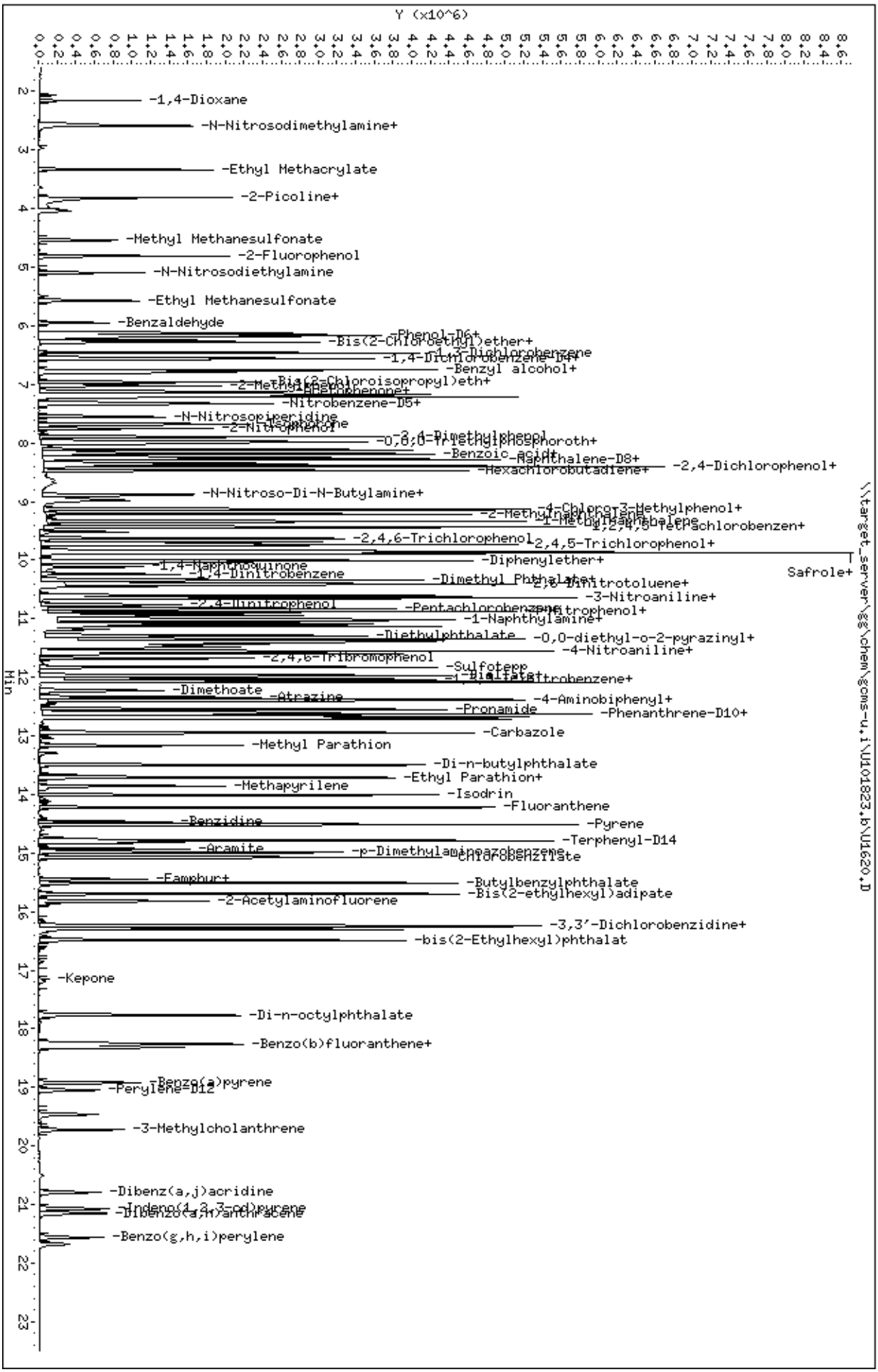
Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1620.D
Report Date: 17-Nov-2023 09:41

EP
11:06 am, Nov 17, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
131	Aramite	185	14.924	14.933	(0.918)	230496	75.0000	74.8(a)	
132	p-Dimethylaminoazobenzene	225	14.997	15.006	(0.922)	777426	75.0000	76.5(a)	
133	Chlorobenzilate	251	15.079	15.088	(0.927)	1097888	75.0000	74.5(a)	
134	Famphur	218	15.400	15.399	(0.947)	12405	75.0000	(a)	
135	3,3'-Dimethylbenzidine	212	15.442	15.451	(0.950)	531287	75.0000	62.1(a)	
136	Butylbenzylphthalate	149	15.514	15.513	(0.954)	1788237	75.0000	72.9(a)	
137	Bis(2-ethylhexyl)adipate	129	15.700	15.709	(0.966)	1649212	75.0000	75.2(a)	
138	2-Acetylaminofluorene	181	15.825	15.834	(0.973)	739852	75.0000	68.9(a)	
139	3,3'-Dichlorobenzidine	252	16.259	16.258	(1.000)	615052	75.0000	71.2(a)	
140	Benzo(a)anthracene	228	16.239	16.248	(0.999)	2493663	75.0000	68.4(a)	
* 141	Chrysene-D12	240	16.259	16.268	(1.000)	1174887	40.0000		
142	Chrysene	228	16.301	16.310	(1.003)	2259756	75.0000	67.8(a)	
143	bis(2-Ethylhexyl)phthalate	149	16.487	16.496	(1.014)	2416734	75.0000	73.6(a)	
144	Kepone	272	17.160	17.158	(1.055)	2952	75.0000	(aQ)	
145	Di-n-octylphthalate	149	17.770	17.769	(0.933)	2740836	75.0000	76.5(a)	
146	Benzo(b)fluoranthene	252	18.257	18.256	(0.959)	1215362	75.0000	72.0(a)	
148	7,12-Dimethylbenz(A)Anthracen	256	18.267	18.276	(0.959)	639852	75.0000	74.2(a)	
149	Benzo(k)fluoranthene	252	18.319	18.328	(0.962)	1133866	75.0000	69.5(aMH)	M6
150	Benzo(a)pyrene	252	18.919	18.928	(0.993)	910047	75.0000	69.9(a)	
* 151	Perylene-D12	264	19.043	19.053	(1.000)	458667	40.0000		
152	3-Methylcholanthrene	268	19.727	19.736	(1.036)	408157	75.0000	69.6(a)	
153	Dibenz(a,j)acridine	279	20.793	20.802	(1.092)	529437	75.0000	77.2(a)	
154	Indeno(1,2,3-cd)pyrene	276	21.072	21.081	(1.107)	597003	75.0000	76.8(a)	
155	Dibenzo(a,h)anthracene	278	21.155	21.164	(1.111)	587918	75.0000	76.5(a)	
156	Benzo(g,h,i)perylene	276	21.569	21.578	(1.133)	598060	75.0000	77.4(a)	
M 157	Total PAHs	100				36074789	1275.00	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101823,b\U1620,D
Date : 18-OCT-2023 11:45
Client ID:
Sample Info: WG344071-5
Column phase: Rxi-5ViOms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101823,b\U1620,D
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Phenol-D6+
-Bis(2-Chloroethyl)ether+
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-2-Nitrophenol
-2,4-Dimethylphenol
-Benzoic acid+
-Naphthalene-D8+
-Hexachlorobutadiene+
-2,4-Dichlorophenol+
-N-Nitroso-Di-N-Butylamine+
-4-Chloro-3-Methylphenol+
-2-Methylnaphthalene
-1,2,4,5-Tetrachlorobenzen+
-2,4,6-Trichlorophenol
-2,4,5-Trichlorophenol+
-Diphenylether+
Safrole+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-2,6-Dinitrotoluene+
-3-Nitroaniline+
-2,4-Dinitrophenol
-Pentachlorobenzene
-1-Naphthylamine+
-Diethylphthalate
-0,0-diethyl-o-2-pyrazinyl+
-4-Nitroaniline+
-2,4,6-Tribromophenol
-Sulfotepp
-Dimethoate
-Atrazine
-4-Aminobiphenyl+
-Pronamide
-Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Famphur
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-3,3'-Dichlorobenzidine+
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene
-Dibenz(a,h)anthracene
-Benzo(g,h,i)perylene

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Report Date: 17-Nov-2023 09:41

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Lab Smp Id: WG344071-6
Inj Date : 18-OCT-2023 12:16
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344071-6
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 17-Nov-2023 09:41 gcms-u.i   Quant Type: ISTD
Cal Date : 18-OCT-2023 12:16   Cal File: U1621.D
Als bottle: 6   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M))*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.162	2.182	(0.262)	285887	100.000	90.9(a)	
	2 N-Nitrosodimethylamine	42	2.597	2.617	(0.397)	452317	100.000	92.6(a)	
	3 Pyridine	79	2.607	2.627	(0.399)	1407469	100.000	90.5(a)	
	4 Ethyl Methacrylate	69	3.342	3.362	(0.511)	1114031	100.000	91.7(a)	
	5 2-Picoline	93	3.818	3.828	(0.584)	1750339	100.000	92.3(a)	
	6 N-Nitrosomethylethylamine	88	4.056	4.066	(0.620)	741589	100.000	103(a)	
	7 Methyl Methanesulfonate	80	4.564	4.573	(0.698)	828791	100.000	92.6(a)	
$	8 2-Fluorophenol	112	4.812	4.821	(0.736)	1477545	100.000	89.6(a)	
	9 N-Nitrosodiethylamine	102	5.112	5.121	(0.782)	758509	100.000	92.9(a)	
	10 Ethyl Methanesulfonate	79	5.588	5.597	(0.854)	1015126	100.000	88.7(a)	
	11 Benzaldehyde	77	5.951	5.949	(0.910)	223988	100.000	98.3(a)	
$	12 Phenol-D6	99	6.178	6.187	(0.945)	1496965	100.000	90.2(a)	
	13 Aniline	93	6.126	6.136	(0.937)	1934152	100.000	89.9(a)	
	14 Phenol	94	6.199	6.208	(0.948)	1689954	100.000	91.8(a)	
	15 Pentachloroethane	117	6.158	6.156	(0.941)	576530	100.000	86.0(a)	
	16 Bis(2-Chloroethyl)ether	93	6.261	6.260	(0.957)	1255135	100.000	90.2(a)	
	17 2-Chlorophenol	128	6.292	6.291	(0.962)	1559483	100.000	87.1(a)	
	18 1,3-Dichlorobenzene	146	6.468	6.467	(0.989)	1706174	100.000	96.7(a)	
*	19 1,4-Dichlorobenzene-D4	152	6.540	6.550	(1.000)	601335	40.0000		
	20 1,4-Dichlorobenzene	146	6.572	6.570	(1.005)	1611576	100.000	93.4(a)	
	21 Benzyl alcohol	108	6.810	6.819	(1.041)	1042532	100.000	93.1(a)	
	22 1,2-Dichlorobenzene	146	6.758	6.767	(1.033)	1681228	100.000	102(a)	

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EP
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	23 Bis(2-Chloroisopropyl)ether	45	6.965	6.974	(1.065)	1095457	100.000	86.3(a)	
	24 2,2'-Oxybis(1-chloropropane)	45	6.965	6.974	(1.065)	1095457	100.000	86.3(a)	
	25 2-Methylphenol	108	7.037	7.046	(1.076)	1468127	100.000	93.7(aM)	M9
	26 Acetophenone	105	7.130	7.140	(0.864)	1945034	100.000	88.7(a)	
	27 N-Nitrosopyrrolidine	100	7.172	7.191	(1.097)	646681	100.000	101(a)	
	28 N-Nitrosomorpholine	56	7.203	7.222	(1.101)	431943	100.000	80.5(a)	
	29 N-Nitroso-di-n-propylamine	70	7.193	7.202	(1.100)	727843	100.000	99.1(a)	
	30 3&4-Methylphenol	108	7.224	7.243	(1.104)	1346030	100.000	89.3(aH)	
	31 o-Toluidine	106	7.172	7.181	(1.097)	1872164	100.000	85.4(aH)	
	32 Hexachloroethane	117	7.203	7.212	(1.101)	619255	100.000	96.4(a)	
$	33 Nitrobenzene-D5	82	7.317	7.326	(0.887)	1262353	100.000	88.5	
	34 Nitrobenzene	77	7.348	7.357	(0.891)	1262574	100.000	92.2(a)	
	35 N-Nitrosopiperidine	114	7.565	7.574	(0.917)	813270	100.000	91.5(a)	
	36 Isophorone	82	7.689	7.698	(0.932)	2336752	100.000	89.1(a)	
	37 2-Nitrophenol	139	7.762	7.771	(0.941)	936674	100.000	87.1(a)	
	38 2,4-Dimethylphenol	107	7.907	7.916	(0.959)	1107591	100.000	90.5(a)	
	39 O,O,O-Triethylphosphorothioat	198	7.989	7.999	(0.969)	776850	100.000	89.6(a)	
	40 Bis(2-Chloroethoxy)methane	93	8.010	8.019	(0.971)	1703159	100.000	87.6(a)	
	41 Benzoic acid	105	8.217	8.237	(0.996)	882940	100.000	99.7(aM)	M9
	42 2,4-Dichlorophenol	162	8.414	8.423	(1.020)	1235233	100.000	98.6(a)	
	43 1,2,4-Trichlorobenzene	180	8.186	8.195	(0.992)	1368820	100.000	95.4(a)	
*	44 Naphthalene-D8	136	8.248	8.257	(1.000)	1882162	40.0000		
	45 Naphthalene	128	8.279	8.288	(1.004)	3278993	100.000	95.2(a)	
	46 alpha-Terpineol	59	8.362	8.371	(1.014)	739252	100.000	88.1(a)	
	47 4-Chloroaniline	127	8.403	8.413	(1.019)	1405091	100.000	95.0(a)	
	48 2,6-Dichlorophenol	162	8.414	8.423	(1.020)	1235233	100.000	98.6(a)	
	49 Hexachloropropene	213	8.403	8.402	(1.019)	927484	100.000	98.3(a)	
	50 Hexachlorobutadiene	225	8.476	8.475	(1.028)	798863	100.000	99.9(a)	
	52 N-Nitroso-Di-N-Butylamine	84	8.890	8.909	(1.078)	882532	100.000	97.7(a)	
	53 p-Phenylenediamine	108	8.921	8.930	(1.082)	589317	100.000	58.2(a)	
	54 Caprolactam	113	9.004	9.023	(1.092)	391685	100.000	82.9(a)	
	55 4-Chloro-3-Methylphenol	107	9.138	9.147	(1.108)	1027430	100.000	99.2(a)	
	56 Isosafrole	162	9.138	9.147	(1.108)	1142892	100.000	82.1(a)	
	57 2-Methylnaphthalene	142	9.221	9.220	(1.118)	2514016	100.000	92.8(a)	
	58 1-Methylnaphthalene	142	9.345	9.354	(1.133)	2312939	100.000	93.8(a)	
	59 1,2,4,5-Tetrachlorobenzene	216	9.449	9.448	(0.891)	1248814	100.000	93.9(a)	
	60 Hexachlorocyclopentadiene	237	9.438	9.437	(0.890)	636446	100.000	94.3(a)	
	61 2,4,6-Trichlorophenol	196	9.635	9.644	(0.908)	959446	100.000	87.0(a)	
	62 2,4,5-Trichlorophenol	196	9.708	9.717	(0.915)	1058358	100.000	89.3(a)	
$	63 2-Fluorobiphenyl	172	9.739	9.748	(0.918)	2644234	100.000	98.8	
	64 Safrole	104	9.842	9.851	(0.928)	428289	100.000	78.0(aQ)	
	65 1,1'-Biphenyl	154	9.873	9.882	(0.931)	2293708	100.000	73.3(a)	
	66 2-Chloronaphthalene	127	9.873	9.882	(0.931)	1158564	100.000	79.8(aQM)	M3
	67 1-Chloronaphthalene	127	9.894	9.903	(0.933)	968654	100.000	89.4(aQM)	M3
	68 Diphenylether	170	10.018	10.017	(0.944)	1886390	100.000	99.2(a)	
	69 2-Nitroaniline	65	10.039	10.048	(0.946)	733596	100.000	93.9(a)	
	70 1,4-Naphthoquinone	158	10.122	10.120	(0.954)	571210	100.000	73.4(a)	
	71 1,4-Dinitrobenzene	168	10.246	10.265	(0.966)	564121	100.000	93.6(a)	
	72 Dimethyl Phthalate	163	10.349	10.358	(0.976)	3023742	100.000	87.2(a)	
	73 1,3-Dinitrobenzene	168	10.370	10.379	(0.978)	574443	100.000	91.8(a)	
	74 2,6-Dinitrotoluene	165	10.401	10.410	(0.980)	751851	100.000	89.0(a)	
	75 Acenaphthylene	152	10.422	10.421	(0.982)	3550242	100.000	96.9(a)	
	76 1,2-Dinitrobenzene	168	10.463	10.483	(0.986)	403037	100.000	98.6(a)	
	77 3-Nitroaniline	138	10.629	10.648	(1.002)	907443	100.000	92.8(a)	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
*	78 Acenaphthene-D10	164	10.608	10.607	(1.000)	1155903	40.0000		
	79 Acenaphthene	153	10.660	10.659	(1.005)	2270400	100.000	95.9(a)	
	80 2,4-Dinitrophenol	184	10.784	10.793	(1.017)	604776	100.000	99.4(a)	
	81 Pentachlorobenzene	250	10.836	10.845	(1.021)	1105455	100.000	83.6(a)	
	82 4-Nitrophenol	109	10.970	10.979	(1.034)	324186	100.000	102(a)	
	83 Dibenzofuran	168	10.898	10.897	(1.027)	3303131	100.000	102(a)	
	84 2,4-Dinitrotoluene	165	10.960	10.969	(1.033)	1159651	100.000	95.7(a)	
	85 1-Naphthylamine	143	11.012	11.021	(1.038)	2807332	100.000	88.4(a)	
	86 2,3,5,6-Tetrachlorophenol	232	11.043	11.052	(1.041)	796887	100.000	89.1(a)	
	87 2,3,4,6-Tetrachlorophenol	232	11.095	11.104	(1.046)	809081	100.000	90.5(a)	
	88 2-Naphthylamine	143	11.136	11.145	(1.050)	2382823	100.000	95.5(a)	
	89 Diethylphthalate	149	11.302	11.311	(1.065)	3026836	100.000	86.1(a)	
	90 O,O-diethyl-o-2-pyrazinylphos	107	11.415	11.424	(1.076)	534722	100.000	88.3(a)	
	91 Thionazin	107	11.415	11.424	(1.076)	534722	100.000	88.3(a)	
	92 Fluorene	166	11.353	11.362	(1.070)	2610163	100.000	78.9(a)	
	93 4-Chlorophenyl-phenylether	204	11.384	11.393	(1.073)	1351369	100.000	82.3(a)	
	94 5-Nitro-O-Toluidine	152	11.446	11.456	(1.079)	1104998	100.000	94.0(a)	
	95 4-Nitroaniline	138	11.488	11.507	(1.083)	989638	100.000	98.1(a)	
	96 4,6-Dinitro-2-Methylphenol	198	11.498	11.518	(0.912)	676372	100.000	91.1(a)	
	97 N-Nitrosodiphenylamine	169	11.571	11.580	(0.918)	2438716	100.000	99.3(a)	
	98 1,2-Diphenylhydrazine	77	11.602	11.600	(0.920)	2426931	100.000	99.1(a)	
	99 Azobenzene	77	11.602	11.600	(0.920)	2426931	100.000	99.1(a)	
$	100 2,4,6-Tribromophenol	330	11.684	11.694	(1.101)	413349	100.000	91.9	
	101 Sulfotepp	97	11.840	11.839	(0.939)	480592	100.000	96.8(a)	
	102 1,3,5-Trinitrobenzene	213	12.057	12.066	(0.956)	376756	100.000	94.6(aQ)	
	103 Diallate	86	11.964	11.973	(0.949)	735014	100.000	97.5(a)	
	104 Phorate	75	11.974	11.983	(0.950)	1350232	100.000	67.5(a)	
	105 Phenacetin	108	12.098	12.118	(0.960)	1374513	100.000	83.2(a)	
	106 4-Bromophenyl-phenylether	248	12.036	12.046	(0.955)	865531	100.000	101(a)	
	107 Hexachlorobenzene	284	12.088	12.097	(0.959)	898911	100.000	96.0(a)	
	108 Dimethoate	87	12.243	12.253	(0.971)	507879	100.000	57.1(a)	
	109 Atrazine	200	12.347	12.356	(0.979)	415222	100.000	58.8(a)	
	110 4-Aminobiphenyl	169	12.409	12.418	(0.984)	2382692	100.000	104(a)	
	111 Pentachlorophenol	266	12.388	12.397	(0.983)	663340	100.000	89.9(a)	
	112 Pentachloronitrobenzene	237	12.378	12.387	(0.982)	421087	100.000	88.2(a)	
	113 Pronamide	173	12.554	12.563	(0.996)	1420289	100.000	94.6(a)	
*	114 Phenanthrene-D10	188	12.606	12.615	(1.000)	2096106	40.0000		
	115 Disulfoton	88	12.688	12.698	(1.007)	1190135	100.000	70.2(a)	
	116 Phenanthrene	178	12.647	12.656	(1.003)	3615433	100.000	97.3(a)	
	117 Dinoseb	211	12.678	12.687	(1.006)	888829	100.000	91.4(a)	
	118 Anthracene	178	12.719	12.729	(1.009)	3733227	100.000	97.6(a)	
	119 Carbazole	167	12.958	12.967	(1.028)	3640251	100.000	97.1(a)	
	120 Methyl Parathion	109	13.165	13.174	(1.044)	517114	100.000	60.3(a)	
	121 Di-n-butylphthalate	149	13.506	13.515	(1.071)	4252273	100.000	92.9(a)	
	122 Ethyl Parathion	291	13.723	13.733	(1.089)	326020	100.000	89.4(a)	
	123 Parathion	291	13.723	13.733	(1.089)	326020	100.000	89.4(a)	
	124 4-Nitroquinoline-1-Oxide	190	13.703	13.712	(1.087)	307699	100.000	75.2(a)	
	125 Methapyrilene	97	13.868	13.877	(1.100)	733524	100.000	61.0(a)	
	126 Isodrin	193	14.013	14.012	(1.112)	572286	100.000	98.6(a)	
	127 Fluoranthene	202	14.231	14.240	(1.129)	3830652	100.000	96.5(a)	
	128 Pyrene	202	14.520	14.530	(0.893)	4133763	100.000	104(a)	
	129 Benzidine	184	14.469	14.467	(0.890)	822229	100.000	75.7(a)	
$	130 Terphenyl-D14	244	14.800	14.799	(0.910)	3063035	100.000	105	
	131 Aramite	185	14.934	14.933	(0.919)	260031	100.000	96.1(a)	

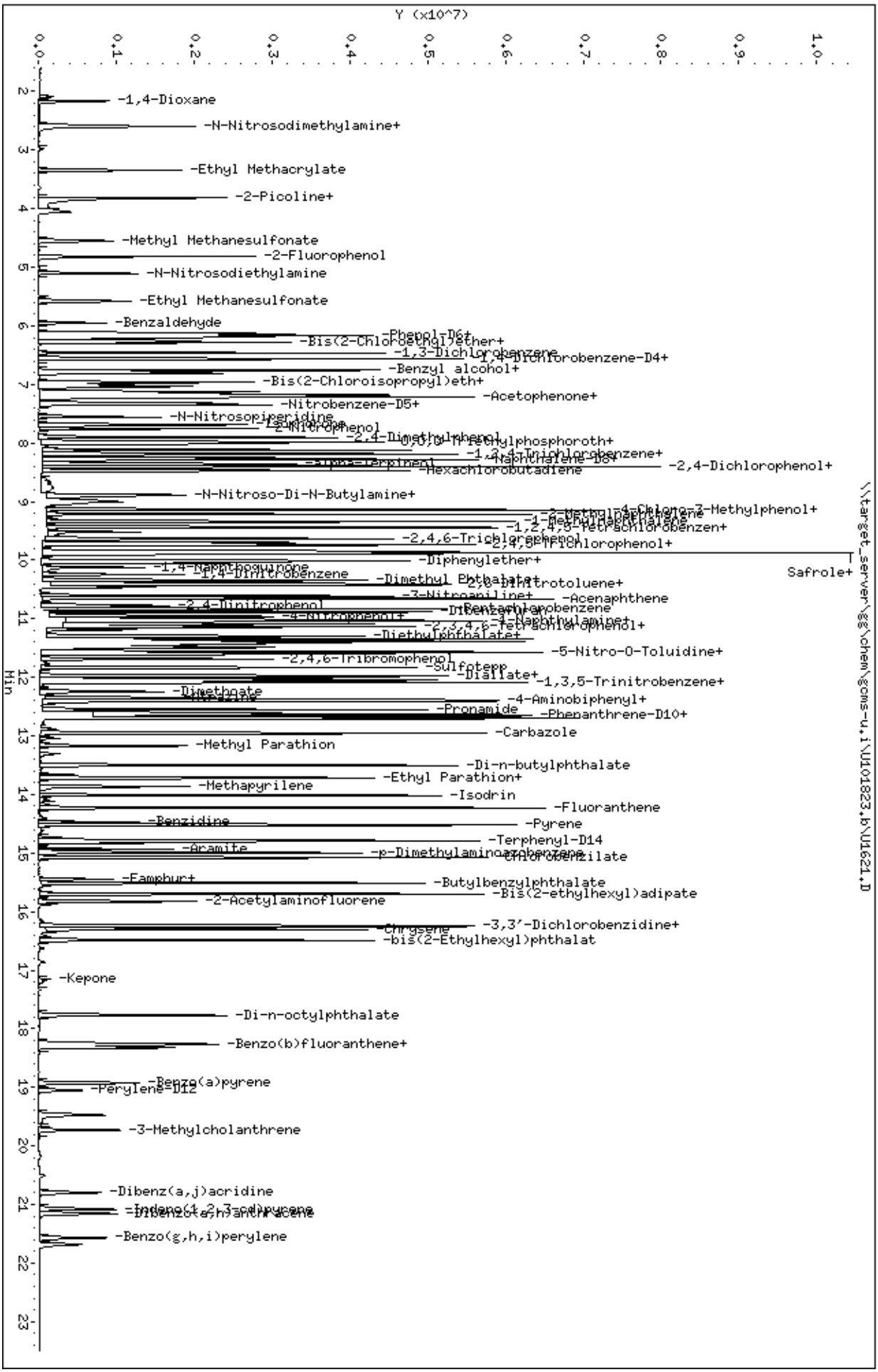
Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Report Date: 17-Nov-2023 09:41

EP
11:06 am, Nov 17, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
132	p-Dimethylaminoazobenzene	225	14.997	15.006	(0.922)	894284	100.000	100(a)	
133	Chlorobenzilate	251	15.079	15.088	(0.927)	1299801	100.000	101(a)	
134	Famphur	218	15.400	15.399	(0.947)	9384	100.000	(a)	
135	3,3'-Dimethylbenzidine	212	15.442	15.451	(0.950)	510306	100.000	68.0(a)	
136	Butylbenzylphthalate	149	15.514	15.513	(0.954)	2085922	100.000	96.9(a)	
137	Bis(2-ethylhexyl)adipate	129	15.700	15.709	(0.966)	2039488	100.000	106(a)	
138	2-Acetylaminofluorene	181	15.825	15.834	(0.973)	802884	100.000	96.2(a)	
139	3,3'-Dichlorobenzidine	252	16.259	16.258	(1.000)	646671	100.000	95.5(a)	
140	Benzo(a)anthracene	228	16.249	16.248	(0.999)	2769210	100.000	86.7(a)	
* 141	Chrysene-D12	240	16.259	16.268	(1.000)	1030504	40.0000		
142	Chrysene	228	16.311	16.310	(1.003)	2559386	100.000	87.5(a)	
143	bis(2-Ethylhexyl)phthalate	149	16.487	16.496	(1.014)	2785198	100.000	96.7(a)	
144	Kepone	272	17.160	17.158	(1.055)	3405	100.000	(aQ)	
145	Di-n-octylphthalate	149	17.770	17.769	(0.933)	2978674	100.000	100(a)	
146	Benzo(b)fluoranthene	252	18.257	18.256	(0.958)	1364699	100.000	88.2(a)	
148	7,12-Dimethylbenz(A)Anthracen	256	18.278	18.276	(0.959)	719220	100.000	90.8(a)	
149	Benzo(k)fluoranthene	252	18.319	18.328	(0.961)	1316461	100.000	88.0(aMH)	M6
150	Benzo(a)pyrene	252	18.930	18.928	(0.993)	1072990	100.000	89.8(a)	
* 151	Perylene-D12	264	19.054	19.053	(1.000)	420911	40.0000		
152	3-Methylcholanthrene	268	19.737	19.736	(1.036)	502271	100.000	93.4(a)	
153	Dibenz(a,j)acridine	279	20.793	20.802	(1.091)	699658	100.000	100(a)	
154	Indeno(1,2,3-cd)pyrene	276	21.082	21.081	(1.106)	793228	100.000	100(a)	
155	Dibenzo(a,h)anthracene	278	21.155	21.164	(1.110)	780110	100.000	100(a)	
156	Benzo(g,h,i)perylene	276	21.579	21.578	(1.133)	792267	100.000	101(a)	
M 157	Total PAHs	100				43298179	1700.00	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Date : 18-OCT-2023 12:16
Client ID:
Sample Info: WG344071-6
Column phase: Rxi-5Vi0Cms
Instrument: gcms-u.i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Y (x10^7)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Phenol-D6+
-Bis(2-Chloroethyl)ether+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-Bis(2-Chloroisopropyl)eth+
-Acetophenone+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-2-Nitrophenol
-2,4-Dimethylphenol
-Bis(2-Chloroethoxy)meth+
-1,2,4-Trichlorobenzene+
-Naphthalene-D8+
-alpha-Terpineol
-Hexachlorobutadiene
-2,4-Dichlorophenol+
-N-Nitroso-Di-N-Butylamine+
-2-Methyl-4-Chloro-3-Methylphenol+
-1-Methylnaphthalene
-1,2,4,5-Tetrachlorobenzen+
-2,4,6-Trichlorophenol+
-2,4,5-Trichlorophenol+
-Diphenylether+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-2,6-Dinitrotoluene+
-3-Nitroaniline+
-Acenaphthene
-2,4-Dinitrophenol
-Dibenzofuran
-Pentachlorobenzene
-4-Nitrophenol+
-1-Naphthylamine+
-2,3,4,6-Tetrachlorophenol+
-Diethylphthalate+
-5-Nitro-O-Toluidine+
-2,4,6-Tribromophenol
-Sulfotepp
-Diallate+
-1,3,5-Trinitrobenzene+
-Dimethoate
-4-Aminobiphenyl+
-Pronamide
-Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Famphur+
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-3,3'-Dichlorobenzidine+
-Chrysene
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene
-Dibenz(a,h)anthracene
-Benzo(g,h,i)perylene
Safrole+

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Report Date: 17-Nov-2023 09:41

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Lab Smp Id: WG344071-7
Inj Date : 18-OCT-2023 12:47
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344071-7
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 17-Nov-2023 09:41 gcms-u.i   Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47   Cal File: U1622.D
Als bottle: 7   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M))*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.182	2.182	(0.264)	349636	125.000	112(a)	
	2 N-Nitrosodimethylamine	42	2.617	2.617	(0.400)	537117	125.000	111(a)	
	3 Pyridine	79	2.627	2.627	(0.401)	1744401	125.000	113(a)	
	4 Ethyl Methacrylate	69	3.362	3.362	(0.513)	1360860	125.000	113(a)	
	5 2-Picoline	93	3.828	3.828	(0.584)	2189310	125.000	117(a)	
	6 N-Nitrosomethylethylamine	88	4.066	4.066	(0.621)	795068	125.000	112(a)	
	7 Methyl Methanesulfonate	80	4.573	4.573	(0.698)	998599	125.000	113(a)	
$	8 2-Fluorophenol	112	4.821	4.821	(0.736)	1841563	125.000	113(a)	
	9 N-Nitrosodiethylamine	102	5.121	5.121	(0.782)	935643	125.000	116(a)	
	10 Ethyl Methanesulfonate	79	5.597	5.597	(0.855)	1349279	125.000	119(a)	
	11 Benzaldehyde	77	5.949	5.949	(0.908)	257785	125.000	125(aA)	
$	12 Phenol-D6	99	6.187	6.187	(0.945)	1913279	125.000	116(a)	
	13 Aniline	93	6.136	6.136	(0.937)	2301733	125.000	108(a)	
	14 Phenol	94	6.208	6.208	(0.948)	2122736	125.000	117(a)	
	15 Pentachloroethane	117	6.156	6.156	(0.940)	724525	125.000	109(a)	
	16 Bis(2-Chloroethyl)ether	93	6.260	6.260	(0.956)	1562015	125.000	113(a)	
	17 2-Chlorophenol	128	6.291	6.291	(0.960)	1962201	125.000	111(a)	
	18 1,3-Dichlorobenzene	146	6.467	6.467	(0.987)	2070382	125.000	127(aA)	
*	19 1,4-Dichlorobenzene-D4	152	6.550	6.550	(1.000)	594934	40.0000		
	20 1,4-Dichlorobenzene	146	6.570	6.570	(1.003)	2036703	125.000	128(aA)	
	21 Benzyl alcohol	108	6.819	6.819	(1.041)	1314057	125.000	119(a)	
	22 1,2-Dichlorobenzene	146	6.767	6.767	(1.033)	1929602	125.000	125(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Report Date: 17-Nov-2023 09:41

EP
11:06 am, Nov 17, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	23 Bis(2-Chloroisopropyl)ether	45	6.974	6.974	(1.065)	1384010	125.000	110(a)	
	24 2,2'-Oxybis(1-chloropropane)	45	6.974	6.974	(1.065)	1384010	125.000	110(a)	
	25 2-Methylphenol	108	7.046	7.046	(1.076)	1897272	125.000	122(aM)	M9
	26 Acetophenone	105	7.140	7.140	(0.865)	2441778	125.000	112(a)	
	27 N-Nitrosopyrrolidine	100	7.191	7.191	(1.098)	733820	125.000	124(a)	
	28 N-Nitrosomorpholine	56	7.222	7.222	(1.103)	575838	125.000	108(a)	
	29 N-Nitroso-di-n-propylamine	70	7.202	7.202	(1.100)	856319	125.000	126(aA)	
	30 3&4-Methylphenol	108	7.243	7.243	(1.106)	1762237	125.000	118(aH)	
	31 o-Toluidine	106	7.181	7.181	(1.096)	2490765	125.000	115(a)	
	32 Hexachloroethane	117	7.212	7.212	(1.101)	743476	125.000	127(aA)	
$	33 Nitrobenzene-D5	82	7.326	7.326	(0.887)	1592416	125.000	112	
	34 Nitrobenzene	77	7.357	7.357	(0.891)	1553403	125.000	114(a)	
	35 N-Nitrosopiperidine	114	7.574	7.574	(0.917)	997670	125.000	113(a)	
	36 Isophorone	82	7.698	7.698	(0.932)	2935941	125.000	112(a)	
	37 2-Nitrophenol	139	7.771	7.771	(0.941)	1232681	125.000	115(a)	
	38 2,4-Dimethylphenol	107	7.916	7.916	(0.959)	1369089	125.000	112(a)	
	39 O,O,O-Triethylphosphorothioat	198	7.999	7.999	(0.969)	979135	125.000	113(a)	
	40 Bis(2-Chloroethoxy)methane	93	8.019	8.019	(0.971)	2128019	125.000	110(a)	
	41 Benzoic acid	105	8.237	8.237	(0.997)	1095340	125.000	123(aM)	M9
	42 2,4-Dichlorophenol	162	8.423	8.423	(1.020)	1574193	125.000	127(aA)	
	43 1,2,4-Trichlorobenzene	180	8.195	8.195	(0.992)	1723846	125.000	128(aA)	
*	44 Naphthalene-D8	136	8.257	8.257	(1.000)	1874714	40.0000		
	45 Naphthalene	128	8.288	8.288	(1.004)	3985543	125.000	128(aA)	
	46 alpha-Terpineol	59	8.371	8.371	(1.014)	931230	125.000	111(a)	
	47 4-Chloroaniline	127	8.413	8.413	(1.019)	1691535	125.000	127(aA)	
	48 2,6-Dichlorophenol	162	8.423	8.423	(1.020)	1574193	125.000	127(aA)	
	49 Hexachloropropene	213	8.402	8.402	(1.018)	1126847	125.000	127(aA)	
	50 Hexachlorobutadiene	225	8.475	8.475	(1.026)	946627	125.000	126(aA)	
	52 N-Nitroso-Di-N-Butylamine	84	8.909	8.909	(1.079)	1101965	125.000	127(aA)	
	53 p-Phenylenediamine	108	8.930	8.930	(1.081)	576104	125.000	57.1(a)	
	54 Caprolactam	113	9.023	9.023	(1.093)	409402	125.000	87.0(a)	
	55 4-Chloro-3-Methylphenol	107	9.147	9.147	(1.108)	1190445	125.000	124(a)	
	56 Isosafrole	162	9.147	9.147	(1.108)	1402100	125.000	101(a)	
	57 2-Methylnaphthalene	142	9.220	9.220	(1.117)	3247954	125.000	129(aA)	
	58 1-Methylnaphthalene	142	9.354	9.354	(1.133)	2885283	125.000	128(aA)	
	59 1,2,4,5-Tetrachlorobenzene	216	9.448	9.448	(0.891)	1570260	125.000	129(aA)	
	60 Hexachlorocyclopentadiene	237	9.437	9.437	(0.890)	786664	125.000	128(aA)	
	61 2,4,6-Trichlorophenol	196	9.644	9.644	(0.909)	1172797	125.000	108(a)	
	62 2,4,5-Trichlorophenol	196	9.717	9.717	(0.916)	1294040	125.000	111(a)	
$	63 2-Fluorobiphenyl	172	9.748	9.748	(0.919)	3083453	125.000	126(A)	
	64 Safrole	104	9.851	9.851	(0.929)	518766	125.000	96.3(aQ)	
	65 1,1'-Biphenyl	154	9.882	9.882	(0.932)	2736752	125.000	89.1(a)	
	66 2-Chloronaphthalene	127	9.882	9.882	(0.932)	1135347	125.000	79.7(aM)	M6
	67 1-Chloronaphthalene	127	9.903	9.903	(0.934)	1337358	125.000	126(aAQ)	
	68 Diphenylether	170	10.017	10.017	(0.944)	2200917	125.000	126(a)	
	69 2-Nitroaniline	65	10.048	10.048	(0.947)	893749	125.000	116(a)	
	70 1,4-Naphthoquinone	158	10.120	10.120	(0.954)	673082	125.000	88.2(a)	
	71 1,4-Dinitrobenzene	168	10.265	10.265	(0.968)	708341	125.000	120(a)	
	72 Dimethyl Phthalate	163	10.358	10.358	(0.977)	3911797	125.000	115(a)	
	73 1,3-Dinitrobenzene	168	10.379	10.379	(0.979)	751237	125.000	122(a)	
	74 2,6-Dinitrotoluene	165	10.410	10.410	(0.981)	884834	125.000	107(a)	
	75 Acenaphthylene	152	10.421	10.421	(0.982)	4217043	125.000	128(aA)	
	76 1,2-Dinitrobenzene	168	10.483	10.483	(0.988)	494629	125.000	123(a)	
	77 3-Nitroaniline	138	10.648	10.648	(1.004)	1072940	125.000	112(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Report Date: 17-Nov-2023 09:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
*	78 Acenaphthene-D10	164	10.607	10.607	(1.000)	1134526	40.0000		
	79 Acenaphthene	153	10.659	10.659	(1.005)	2770189	125.000	128(aA)	
	80 2,4-Dinitrophenol	184	10.793	10.793	(1.018)	756360	125.000	127(aA)	
	81 Pentachlorobenzene	250	10.845	10.845	(1.022)	1423859	125.000	110(a)	
	82 4-Nitrophenol	109	10.979	10.979	(1.035)	358178	125.000	123(a)	
	83 Dibenzofuran	168	10.897	10.897	(1.027)	3684732	125.000	124(a)	
	84 2,4-Dinitrotoluene	165	10.969	10.969	(1.034)	1357564	125.000	114(a)	
	85 1-Naphthylamine	143	11.021	11.021	(1.039)	2802677	125.000	90.0(a)	
	86 2,3,5,6-Tetrachlorophenol	232	11.052	11.052	(1.042)	1014276	125.000	116(a)	
	87 2,3,4,6-Tetrachlorophenol	232	11.104	11.104	(1.047)	986035	125.000	112(a)	
	88 2-Naphthylamine	143	11.145	11.145	(1.051)	2888149	125.000	128(aA)	
	89 Diethylphthalate	149	11.311	11.311	(1.066)	3606448	125.000	104(a)	
	90 O,O-diethyl-o-2-pyrazinylphos	107	11.424	11.424	(1.077)	668061	125.000	112(a)	
	91 Thionazin	107	11.424	11.424	(1.077)	668061	125.000	112(a)	
	92 Fluorene	166	11.362	11.362	(1.071)	3360843	125.000	103(a)	
	93 4-Chlorophenyl-phenylether	204	11.393	11.393	(1.074)	1769311	125.000	110(a)	
	94 5-Nitro-O-Toluidine	152	11.456	11.456	(1.080)	1362261	125.000	118(a)	
	95 4-Nitroaniline	138	11.507	11.507	(1.085)	1043130	125.000	105(a)	
	96 4,6-Dinitro-2-Methylphenol	198	11.518	11.518	(0.913)	833236	125.000	113(a)	
	97 N-Nitrosodiphenylamine	169	11.580	11.580	(0.918)	2842354	125.000	126(aA)	
	98 1,2-Diphenylhydrazine	77	11.600	11.600	(0.920)	2965387	125.000	127(aA)	
	99 Azobenzene	77	11.600	11.600	(0.920)	2965387	125.000	127(aA)	
$	100 2,4,6-Tribromophenol	330	11.694	11.694	(1.102)	498355	125.000	113	
	101 Sulfotepp	97	11.839	11.839	(0.938)	587992	125.000	128(aA)	
	102 1,3,5-Trinitrobenzene	213	12.066	12.066	(0.957)	421295	125.000	106(aQ)	
	103 Diallate	86	11.973	11.973	(0.949)	891298	125.000	127(aA)	
	104 Phorate	75	11.983	11.983	(0.950)	1525644	125.000	76.7(a)	
	105 Phenacetin	108	12.118	12.118	(0.961)	1778861	125.000	108(a)	
	106 4-Bromophenyl-phenylether	248	12.046	12.046	(0.955)	1005194	125.000	125(aA)	
	107 Hexachlorobenzene	284	12.097	12.097	(0.959)	1127219	125.000	128(aA)	
	108 Dimethoate	87	12.253	12.253	(0.971)	527612	125.000	59.6(a)	
	109 Atrazine	200	12.356	12.356	(0.979)	409884	125.000	58.3(a)	
	110 4-Aminobiphenyl	169	12.418	12.418	(0.984)	2542021	125.000	119(a)	
	111 Pentachlorophenol	266	12.397	12.397	(0.983)	806449	125.000	110(a)	
	112 Pentachloronitrobenzene	237	12.387	12.387	(0.982)	517628	125.000	109(a)	
	113 Pronamide	173	12.563	12.563	(0.996)	1750913	125.000	128(aA)	
*	114 Phenanthrene-D10	188	12.615	12.615	(1.000)	2085150	40.0000		
	115 Disulfoton	88	12.698	12.698	(1.007)	1463338	125.000	86.7(a)	
	116 Phenanthrene	178	12.656	12.656	(1.003)	4363945	125.000	128(aA)	
	117 Dinoseb	211	12.687	12.687	(1.006)	1068259	125.000	110(aA)	
	118 Anthracene	178	12.729	12.729	(1.009)	4425134	125.000	127(aA)	
	119 Carbazole	167	12.967	12.967	(1.028)	4227915	125.000	126(aA)	
	120 Methyl Parathion	109	13.174	13.174	(1.044)	517315	125.000	60.6(a)	
	121 Di-n-butylphthalate	149	13.515	13.515	(1.071)	5123259	125.000	128(aA)	
	122 Ethyl Parathion	291	13.733	13.733	(1.089)	401305	125.000	111(a)	
	123 Parathion	291	13.733	13.733	(1.089)	401305	125.000	111(a)	
	124 4-Nitroquinoline-1-Oxide	190	13.712	13.712	(1.087)	310319	125.000	76.3(a)	
	125 Methapyrilene	97	13.877	13.877	(1.100)	706352	125.000	59.0(a)	
	126 Isodrin	193	14.012	14.012	(1.111)	677650	125.000	126(aA)	
	127 Fluoranthene	202	14.240	14.240	(1.129)	4437329	125.000	125(a)	
	128 Pyrene	202	14.530	14.530	(0.893)	4365348	125.000	143(aA)	
	129 Benzidine	184	14.467	14.467	(0.889)	565220	125.000	67.9(a)	
$	130 Terphenyl-D14	244	14.799	14.799	(0.910)	3287010	125.000	146(A)	
	131 Aramite	185	14.933	14.933	(0.918)	278391	125.000	134(aA)	

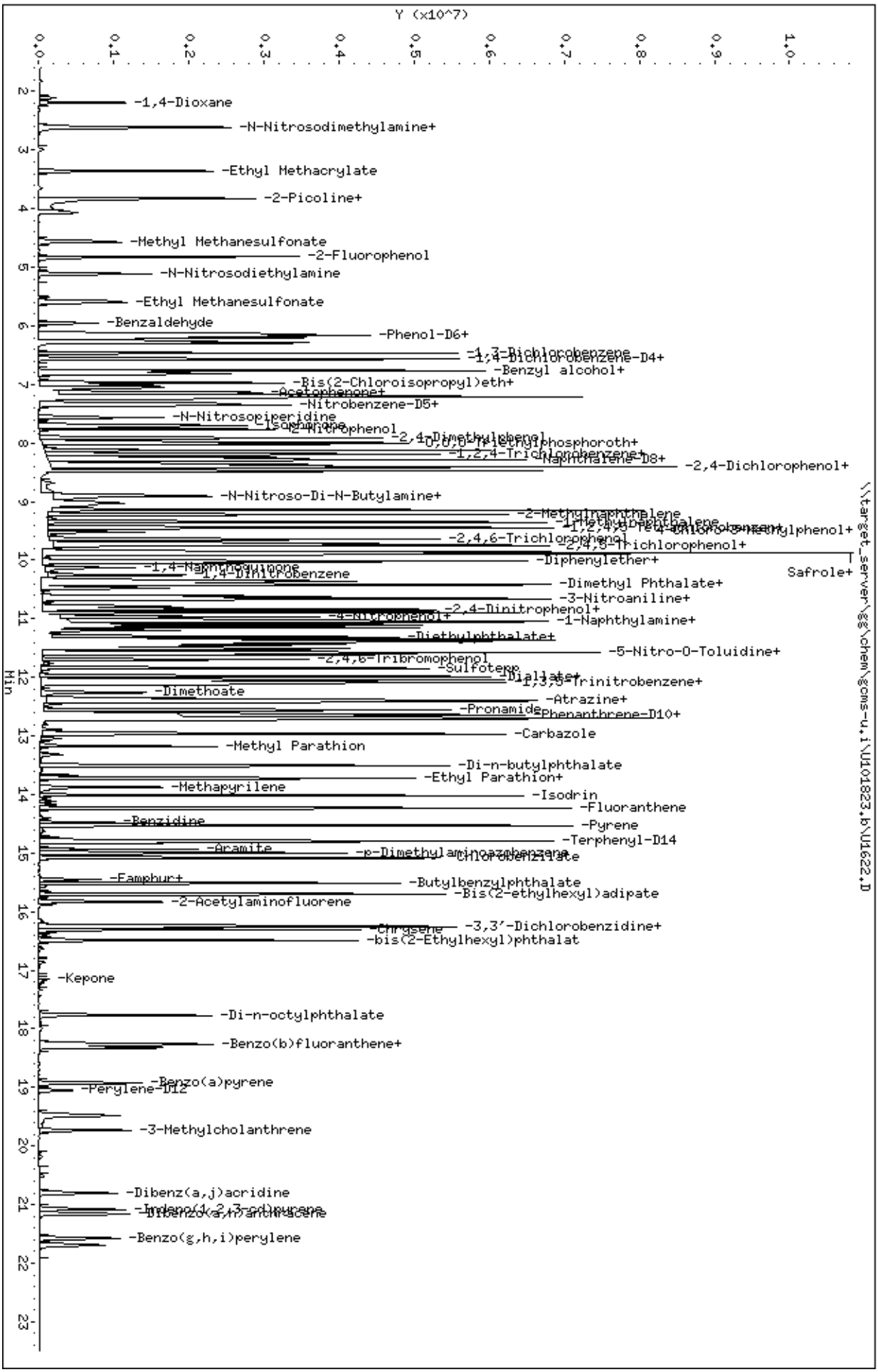
Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Report Date: 17-Nov-2023 09:41

EP
11:06 am, Nov 17, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
132	p-Dimethylaminoazobenzene	225	15.006	15.006	(0.922)	1062876	125.000	156(aA)	
133	Chlorobenzilate	251	15.088	15.088	(0.927)	1536925	125.000	155(aA)	
134	Famphur	218	15.399	15.399	(0.947)	4139	125.000	(aQ)	
135	3,3'-Dimethylbenzidine	212	15.451	15.451	(0.950)	413100	125.000	71.8(a)	
136	Butylbenzylphthalate	149	15.513	15.513	(0.954)	2166681	125.000	131(aA)	
137	Bis(2-ethylhexyl)adipate	129	15.709	15.709	(0.966)	2254405	125.000	153(aA)	
138	2-Acetylaminofluorene	181	15.834	15.834	(0.973)	737350	125.000	129(aA)	
139	3,3'-Dichlorobenzidine	252	16.258	16.258	(0.999)	591806	125.000	128(aA)	
140	Benzo(a)anthracene	228	16.248	16.248	(0.999)	2842739	125.000	116(a)	
* 141	Chrysene-D12	240	16.268	16.268	(1.000)	789776	40.0000		
142	Chrysene	228	16.310	16.310	(1.003)	2432571	125.000	108(a)	
143	bis(2-Ethylhexyl)phthalate	149	16.496	16.496	(1.014)	2778125	125.000	126(aA)	
144	Kepone	272	17.158	17.158	(1.055)	2879	125.000	(a)	
145	Di-n-octylphthalate	149	17.769	17.769	(0.933)	2702035	125.000	122(a)	
146	Benzo(b)fluoranthene	252	18.256	18.256	(0.958)	1329346	125.000	107(a)	
148	7,12-Dimethylbenz(A)Anthracen	256	18.276	18.276	(0.959)	681138	125.000	107(a)	
149	Benzo(k)fluoranthene	252	18.328	18.328	(0.962)	1314504	125.000	109(aMH)	M6
150	Benzo(a)pyrene	252	18.928	18.928	(0.993)	1112919	125.000	116(a)	
* 151	Perylene-D12	264	19.053	19.053	(1.000)	338627	40.0000		
152	3-Methylcholanthrene	268	19.736	19.736	(1.036)	566766	125.000	131(aA)	
153	Dibenz(a,j)acridine	279	20.802	20.802	(1.092)	853419	125.000	124(a)	
154	Indeno(1,2,3-cd)pyrene	276	21.081	21.081	(1.106)	946889	125.000	124(a)	
155	Dibenzo(a,h)anthracene	278	21.164	21.164	(1.111)	926661	125.000	124(a)	
156	Benzo(g,h,i)perylene	276	21.578	21.578	(1.133)	962201	125.000	124(a)	
M 157	Total PAHs	100				49926441	2550.00	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Date : 18-OCT-2023 12:47
Client ID:
Sample Info: WG344071-7
Column phase: Rxi-5VOCms
Instrument: gcms-u.i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Y (x10^7)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Phenol-D6+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-Bis(2-Chloroisopropyl)eth+
-Acetophenone+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-O,O,O-Triethylphosphoroth+
-1,2,4-Trichlorobenzene+
-Naphthalene-D8+
-2,4-Dichlorophenol+
-N-Nitroso-Di-N-Butylamine+
-2-Methylnaphthalene
-1-Methylnaphthalene
-4-Chloro-3-Methylphenol+
-2,4,6-Trichlorophenol
-2,4,5-Trichlorophenol+
-Diphenylether+
Safrole+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-3-Nitroaniline+
-2,4-Dinitrophenol+
-4-Nitrophenol+
-1-Naphthylamine+
-Diethylphthalate+
-5-Nitro-O-Toluidine+
-2,4,6-Tribromophenol
-Sulfotepp
-Diallate+
-1,3,5-Trinitrobenzene+
-Dimethoate
-Atrazine+
-Pronamide
-Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Famphur+
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-Chrysene
-3,3'-Dichlorobenzidine+
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene
-Dibenz(a,h)anthracene
-Benzo(g,h,i)perylene

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1623.D
Report Date: 20-Oct-2023 13:38

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1623.D
Lab Smp Id: WG344071-8
Inj Date : 18-OCT-2023 13:17
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344071-8
Misc Info : WG344071,WG344071,WG344071-4,SQ5205-1
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 19-Oct-2023 07:58 dtasker   Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47   Cal File: U1622.D
Als bottle: 8   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: TECHN0VA-01

Concentration Formula: Amt * DF * Uf*(Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

DT
9:46 am, Oct 30, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
1	1,4-Dioxane	58	2.121	2.182	(0.258)	129895	48.2181	48.2	
2	N-Nitrosodimethylamine	42	2.535	2.617	(0.388)	225111	52.7719	52.8	
3	Pyridine	79	2.566	2.627	(0.392)	718652	52.9044	52.9(M)	M6
5	2-Picoline	93	3.798	3.828	(0.581)	822472	49.6767	49.7	
6	N-Nitrosomethylethylamine	88	4.026	4.066	(0.615)	280046	44.6879	44.7	
7	Methyl Methanesulfonate	80	4.522	4.573	(0.691)	357165	45.6899	45.7	
9	N-Nitrosodiethylamine	102	5.081	5.122	(0.777)	337353	47.3242	47.3	
10	Ethyl Methanesulfonate	79	5.557	5.598	(0.850)	448581	44.9043	44.9	
11	Benzaldehyde	77	5.940	5.950	(0.908)	76018	24.6943	24.7(R)	
13	Aniline	93	6.116	6.136	(0.935)	846948	45.0628	45.1	
14	Phenol	94	6.189	6.209	(0.946)	851390	52.9826	53.0	
16	Bis(2-Chloroethyl)ether	93	6.240	6.260	(0.954)	604414	49.7445	49.7	
17	2-Chlorophenol	128	6.282	6.291	(0.960)	762472	48.7655	48.8	
18	1,3-Dichlorobenzene	146	6.458	6.467	(0.987)	888052	50.2529	50.2	
* 19	1,4-Dichlorobenzene-D4	152	6.541	6.550	(1.000)	525151	40.0000		
20	1,4-Dichlorobenzene	146	6.561	6.571	(1.003)	855415	50.9467	50.9	
21	Benzyl alcohol	108	6.779	6.819	(1.036)	442154	45.2250	45.2	
22	1,2-Dichlorobenzene	146	6.758	6.767	(1.033)	844427	49.1114	49.1	
23	Bis(2-Chloroisopropyl)ether	45	6.965	6.974	(1.065)	482274	43.4953	43.5	
24	2,2'-Oxybis(1-chloropropane)	45	6.965	6.974	(1.065)	418225	37.7335	37.7(R)	
25	2-Methylphenol	108	7.006	7.047	(1.071)	624511	45.6281	45.6	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1623.D
Report Date: 20-Oct-2023 13:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	26 Acetophenone	105	7.120	7.140	(0.864)	1657321	88.2691	88.3	
	27 N-Nitrosopyrrolidine	100	7.110	7.192	(1.087)	304637	42.5145	42.5(Q)	
	28 N-Nitrosomorpholine	56	7.162	7.223	(1.095)	213960	45.6414	45.6	
	29 N-Nitroso-di-n-propylamine	70	7.162	7.202	(1.095)	345371	45.1496	45.1(Q)	
	30 3&4-Methylphenol	108	7.193	7.244	(1.100)	589956	44.8292	44.8	
	31 o-Toluidine	106	7.162	7.181	(1.095)	817551	42.7305	42.7	
	32 Hexachloroethane	117	7.203	7.212	(1.101)	324707	48.8989	48.9	
	34 Nitrobenzene	77	7.327	7.357	(0.889)	622049	53.0458	53.0	
	35 N-Nitrosopiperidine	114	7.534	7.575	(0.915)	340855	44.7991	44.8	
	36 Isophorone	82	7.669	7.699	(0.931)	939640	41.8526	41.8	
	37 2-Nitrophenol	139	7.752	7.771	(0.941)	461225	50.0968	50.1	
	38 2,4-Dimethylphenol	107	7.886	7.916	(0.957)	612444	58.4407	58.4	
	39 O,O,O-Triethylphosphorothioat	198	7.969	7.999	(0.967)	353206	47.5917	47.6	
	40 Bis(2-Chloroethoxy)methane	93	8.000	8.020	(0.971)	883844	53.0999	53.1	
	41 Benzoic acid	105	8.124	8.237	(0.986)	394996	53.3180	53.3(RH)	
	42 2,4-Dichlorophenol	162	8.393	8.423	(1.019)	558315	51.3588	51.4	
	43 1,2,4-Trichlorobenzene	180	8.176	8.196	(0.992)	678869	49.8873	49.9	
*	44 Naphthalene-D8	136	8.238	8.257	(1.000)	1611517	40.0000		
	45 Naphthalene	128	8.269	8.289	(1.004)	1789427	50.5020	50.5	
	46 alpha-Terpineol	59	8.342	8.372	(1.013)	346278	48.1862	48.2	
	47 4-Chloroaniline	127	8.383	8.413	(1.018)	571129	32.9938	33.0(R)	
	48 2,6-Dichlorophenol	162	8.393	8.423	(1.019)	555855	51.1292	51.1	
	49 Hexachloropropene	213	8.393	8.403	(1.019)	472312	52.2030	52.2	
	50 Hexachlorobutadiene	225	8.466	8.475	(1.028)	401711	51.2889	51.3	
	52 N-Nitroso-Di-N-Butylamine	84	8.869	8.910	(1.077)	388850	46.5777	46.6(H)	
	54 Caprolactam	113	8.921	9.024	(1.083)	206299	50.9826	51.0(H)	
	55 4-Chloro-3-Methylphenol	107	9.107	9.148	(1.106)	519619	47.0707	47.1	
	56 Isosafrole	162	9.128	9.148	(1.108)	519366	43.5991	43.6	
	57 2-Methylnaphthalene	142	9.211	9.220	(1.118)	1288348	50.4009	50.4	
	58 1-Methylnaphthalene	142	9.335	9.355	(1.133)	1170853	47.4578	47.4	
	59 1,2,4,5-Tetrachlorobenzene	216	9.439	9.448	(0.891)	1044041	98.6524	98.6	
	60 Hexachlorocyclopentadiene	237	9.428	9.438	(0.890)	351833	58.5379	58.5	
	61 2,4,6-Trichlorophenol	196	9.625	9.645	(0.908)	449973	50.7958	50.8	
	62 2,4,5-Trichlorophenol	196	9.697	9.717	(0.915)	474896	49.8649	49.9	
	64 Safrole	104	9.822	9.852	(0.927)	200866	45.5600	45.6(Q)	
	65 1,1'-Biphenyl	154	9.853	9.883	(0.930)	1246507	49.5824	49.6	
	66 2-Chloronaphthalene	127	9.853	9.883	(0.930)	635838	54.5365	54.5(QH)	
	67 1-Chloronaphthalene	127	9.884	9.904	(0.933)	361641	41.5284	41.5(Q)	
	69 2-Nitroaniline	65	10.029	10.048	(0.946)	251138	40.0026	40.0(Q)	
	70 1,4-Naphthoquinone	158	10.111	10.121	(0.954)	481655	77.0663	77.1(R)	
	72 Dimethyl Phthalate	163	10.318	10.359	(0.974)	1238933	44.4642	44.5	
	73 1,3-Dinitrobenzene	168	10.329	10.380	(0.975)	238044	47.3594	47.4	
	74 2,6-Dinitrotoluene	165	10.381	10.411	(0.979)	364656	53.7288	53.7(Q)	
	75 Acenaphthylene	152	10.401	10.421	(0.981)	1610603	45.0633	45.1	
	77 3-Nitroaniline	138	10.588	10.649	(0.999)	341086	43.4128	43.4	
*	78 Acenaphthene-D10	164	10.598	10.607	(1.000)	928722	40.0000		
	79 Acenaphthene	153	10.639	10.659	(1.004)	1065044	48.8036	48.8	
	80 2,4-Dinitrophenol	184	10.732	10.794	(1.013)	222231	45.4481	45.4	
	81 Pentachlorobenzene	250	10.826	10.845	(1.021)	552221	51.9928	52.0	
	82 4-Nitrophenol	109	10.929	10.980	(1.031)	171917	53.5768	53.6(Q)	
	83 Dibenzofuran	168	10.877	10.897	(1.026)	1550343	47.3394	47.3	
	84 2,4-Dinitrotoluene	165	10.908	10.970	(1.029)	449471	46.1591	46.2	
	85 1-Naphthylamine	143	10.991	11.021	(1.037)	769177	30.1642	30.2(R)	
	87 2,3,4,6-Tetrachlorophenol	232	11.074	11.104	(1.045)	345533	48.0982	48.1	

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Report Date: 20-Oct-2023 13:38

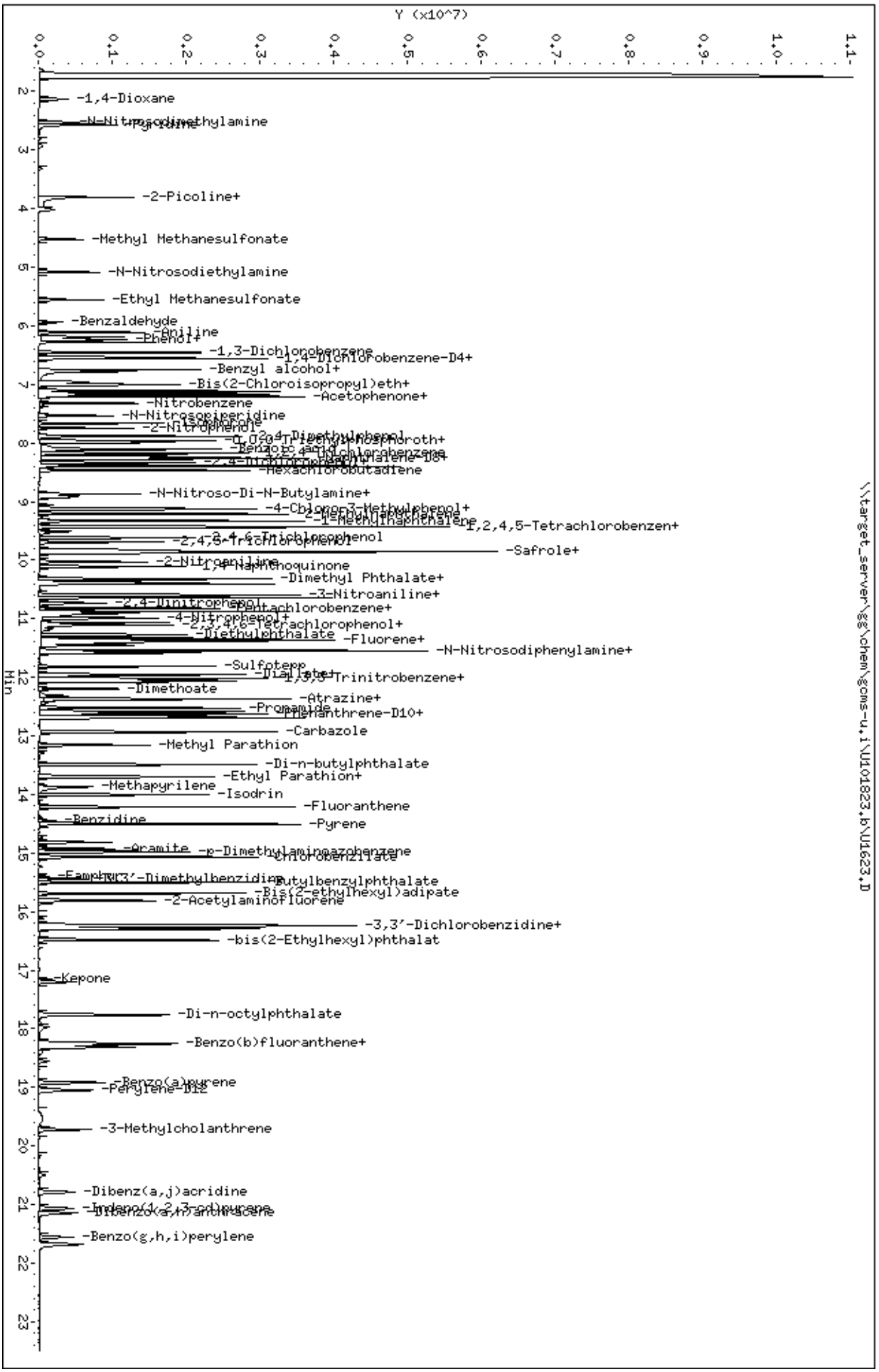
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
88	2-Naphthylamine	143	11.105	11.146	(1.048)	787030	30.9926	31.0(R)	
89	Diethylphthalate	149	11.281	11.311	(1.064)	1367086	48.4281	48.4	
90	O,O-diethyl-o-2-pyrazinylphos	107	11.374	11.425	(1.073)	231924	47.6870	47.7(H)	
91	Thionazin	107	11.374	11.425	(1.073)	231924	47.6870	47.7(H)	
92	Fluorene	166	11.333	11.363	(1.069)	1293208	48.6450	48.6	
93	4-Chlorophenyl-phenylether	204	11.374	11.394	(1.073)	640310	48.5537	48.6	
94	5-Nitro-O-Toluidine	152	11.405	11.456	(1.076)	447704	47.3805	47.4	
95	4-Nitroaniline	138	11.426	11.508	(1.078)	336753	41.5629	41.6	
96	4,6-Dinitro-2-Methylphenol	198	11.457	11.518	(0.910)	278761	48.7239	48.7	
97	N-Nitrosodiphenylamine	169	11.550	11.580	(0.918)	1807338	93.8026	93.8	
98	1,2-Diphenylhydrazine	77	11.581	11.601	(0.920)	985328	45.5128	45.5	
99	Azobenzene	77	11.581	11.601	(0.920)	985328	45.5128	45.5	
101	Sulfotepp	97	11.819	11.839	(0.939)	207240	46.7510	46.8	
102	1,3,5-Trinitrobenzene	213	11.995	12.067	(0.953)	152886	49.8545	49.8	
103	Diallate	86	11.954	11.974	(0.950)	357245	54.1975	54.2	
104	Phorate	75	11.964	11.984	(0.951)	539701	35.0309	35.0(RH)	
105	Phenacetin	108	12.037	12.118	(0.956)	623556	49.0286	49.0	
106	4-Bromophenyl-phenylether	248	12.026	12.046	(0.956)	376459	47.8467	47.8	
107	Hexachlorobenzene	284	12.068	12.098	(0.959)	381903	47.5970	47.6	
108	Dimethoate	87	12.202	12.253	(0.970)	377287	55.0814	55.1	
109	Atrazine	200	12.368	12.357	(0.983)	50885	9.34906	9.35(aQR)	
110	4-Aminobiphenyl	169	12.378	12.419	(0.984)	802840	33.9848	34.0(R)	
111	Pentachlorophenol	266	12.368	12.398	(0.983)	301035	52.9616	53.0	
112	Pentachloronitrobenzene	237	12.368	12.388	(0.983)	173920	47.2778	47.3	
113	Pronamide	173	12.523	12.564	(0.995)	634155	46.1205	46.1	
* 114	Phenanthrene-D10	188	12.585	12.615	(1.000)	1614729	40.0000		
115	Disulfoton	88	12.668	12.698	(1.007)	601875	46.0748	46.1	
116	Phenanthrene	178	12.626	12.657	(1.003)	1751016	52.4522	52.4	
117	Dinoseb	211	12.647	12.688	(1.005)	404916	54.0345	54.0	
118	Anthracene	178	12.689	12.729	(1.008)	1707742	46.5089	46.5	
119	Carbazole	167	12.937	12.967	(1.028)	1704947	44.2872	44.3	
120	Methyl Parathion	109	13.154	13.174	(1.045)	336927	51.0076	51.0	
121	Di-n-butylphthalate	149	13.496	13.516	(1.072)	2290701	52.2714	52.3	
122	Ethyl Parathion	291	13.703	13.733	(1.089)	140108	49.8811	49.9(Q)	
123	Parathion	291	13.703	13.733	(1.089)	140108	49.8811	49.9(Q)	
124	4-Nitroquinoline-1-Oxide	190	13.682	13.712	(1.087)	154956	49.1975	49.2	
125	Methapyrilene	97	13.869	13.878	(1.102)	378583	40.8359	40.8	
126	Isodrin	193	14.003	14.013	(1.113)	235109	42.8624	42.9	
127	Fluoranthene	202	14.210	14.240	(1.129)	1911300	47.4686	47.5	
128	Pyrene	202	14.510	14.530	(0.893)	1969313	44.7430	44.7	
129	Benzidine	184	14.448	14.468	(0.889)	234395	19.5338	19.5(aR)	
131	Aramite	185	14.924	14.934	(0.918)	155213	51.9650	52.0	
132	p-Dimethylaminoazobenzene	225	14.986	15.006	(0.922)	439748	44.6946	44.7	
133	Chlorobenzilate	251	15.069	15.089	(0.927)	639332	44.8058	44.8	
134	Famphur	218	15.390	15.399	(0.947)	60743		(aQR)	
135	3,3'-Dimethylbenzidine	212	15.442	15.451	(0.950)	325894	39.3108	39.3(R)	
136	Butylbenzylphthalate	149	15.504	15.513	(0.954)	1101251	46.3228	46.3	
137	Bis(2-ethylhexyl)adipate	129	15.690	15.710	(0.966)	901069	42.4337	42.4	
138	2-Acetylaminofluorene	181	15.814	15.834	(0.973)	583314	47.5578	47.6	
139	3,3'-Dichlorobenzidine	252	16.249	16.259	(1.000)	450515	45.9086	45.9	
140	Benzo(a)anthracene	228	16.228	16.248	(0.999)	1687291	47.8200	47.8	
* 141	Chrysene-D12	240	16.249	16.268	(1.000)	1138066	40.0000		
142	Chrysene	228	16.290	16.309	(1.003)	1599673	49.5229	49.5	
143	bis(2-Ethylhexyl)phthalate	149	16.487	16.497	(1.015)	1540227	48.4254	48.4	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1623.D
Report Date: 20-Oct-2023 13:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	144 Kepone	272	17.150	17.158	(1.055)	2430		(aQR)	
	145 Di-n-octylphthalate	149	17.760	17.770	(0.933)	2180336	54.5621	54.6	
	146 Benzo(b)fluoranthene	252	18.247	18.256	(0.958)	998910	49.4573	49.4	
	148 7,12-Dimethylbenz(A)Anthracen	256	18.267	18.277	(0.959)	540559	52.3315	52.3	
	149 Benzo(k)fluoranthene	252	18.309	18.329	(0.961)	985286	50.4698	50.5(H)	
	150 Benzo(a)pyrene	252	18.919	18.929	(0.993)	718641	46.1187	46.1	
*	151 Perylene-D12	264	19.044	19.053	(1.000)	549234	40.0000		
	152 3-Methylcholanthrene	268	19.727	19.736	(1.036)	330961	47.1635	47.2	
	153 Dibenz(a,j)acridine	279	20.793	20.802	(1.092)	437895	56.9514	57.0	
	154 Indeno(1,2,3-cd)pyrene	276	21.072	21.082	(1.107)	386611	45.6570	45.6	
	155 Dibenzo(a,h)anthracene	278	21.145	21.164	(1.110)	386506	45.9708	46.0	
	156 Benzo(g,h,i)perylene	276	21.559	21.578	(1.132)	395654	46.9910	47.0	
M	157 Total PAHs	100				22715426	864.053	864	

QC Flag Legend

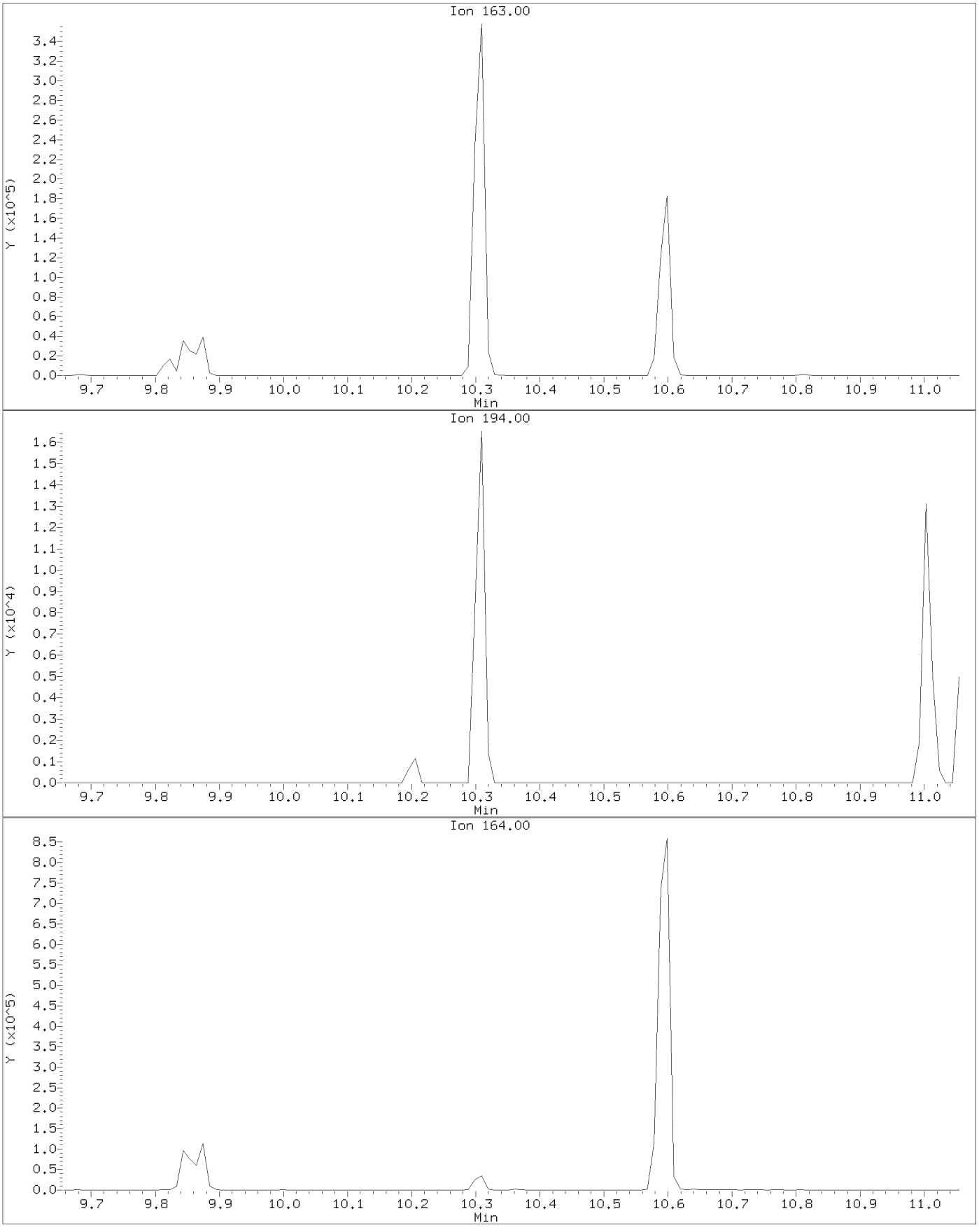
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101823,b\U1623.D
Date : 18-OCT-2023 13:17
Client ID:
Sample Info: WG344071-8
Volume Injected (uL): 1.0
Column phase: Rxi-5ViOCms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101823,b\U1623.D
Y (x10^7)
Min
-1,4-Dioxane
-2-Picoline+
-Methyl Methanesulfonate
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Aniline
-Phenol+
-1,3-Dichlorobenzene
-Benzyl alcohol+
-Acetophenone+
-Nitrobenzene
-N-Nitrosopiperidine
-2-Nitrophenol
-Hexachlorobutadiene
-N-Nitroso-Di-N-Butylamine+
-4-Chloro-3-Methylphenol+
-2,4,5-Trichlorophenol
-Safrole+
-Dimethyl Phthalate+
-3-Nitroaniline+
-4-Nitrophenol+
-Diethylphthalate
-Fluorene+
-N-Nitrosodiphenylamine+
-Dimethoate
-Atrazine+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Isodrin
-Fluoranthene
-Pyrene
-Chlorobenzilate
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-3,3'-Dichlorobenzidine+
-bis(2-Ethylhexyl)phthalat
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Benzo(g,h,i)perylene

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1619.D
Injection Date: 18-OCT-2023 11:14
Instrument: gcms-u.i
Client Sample ID:

Compound: Dimethyl Phthalate
CAS Number: 131-11-3

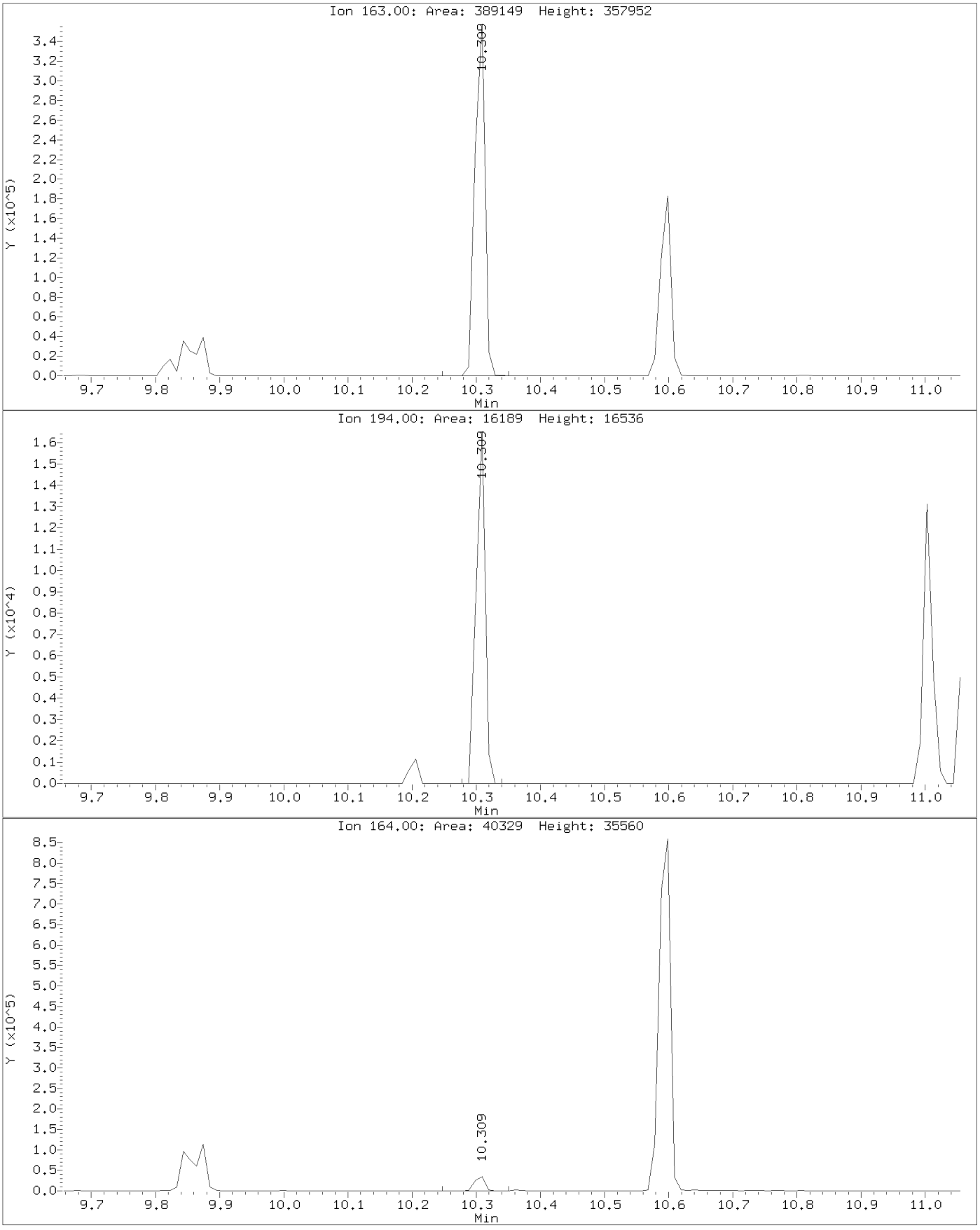
BEFORE MANUAL INTEGRATION



AFTER MANUAL INTEGRATION

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1619.D
Injection Date: 18-OCT-2023 11:14
Instrument: gcms-u.i
Client Sample ID:

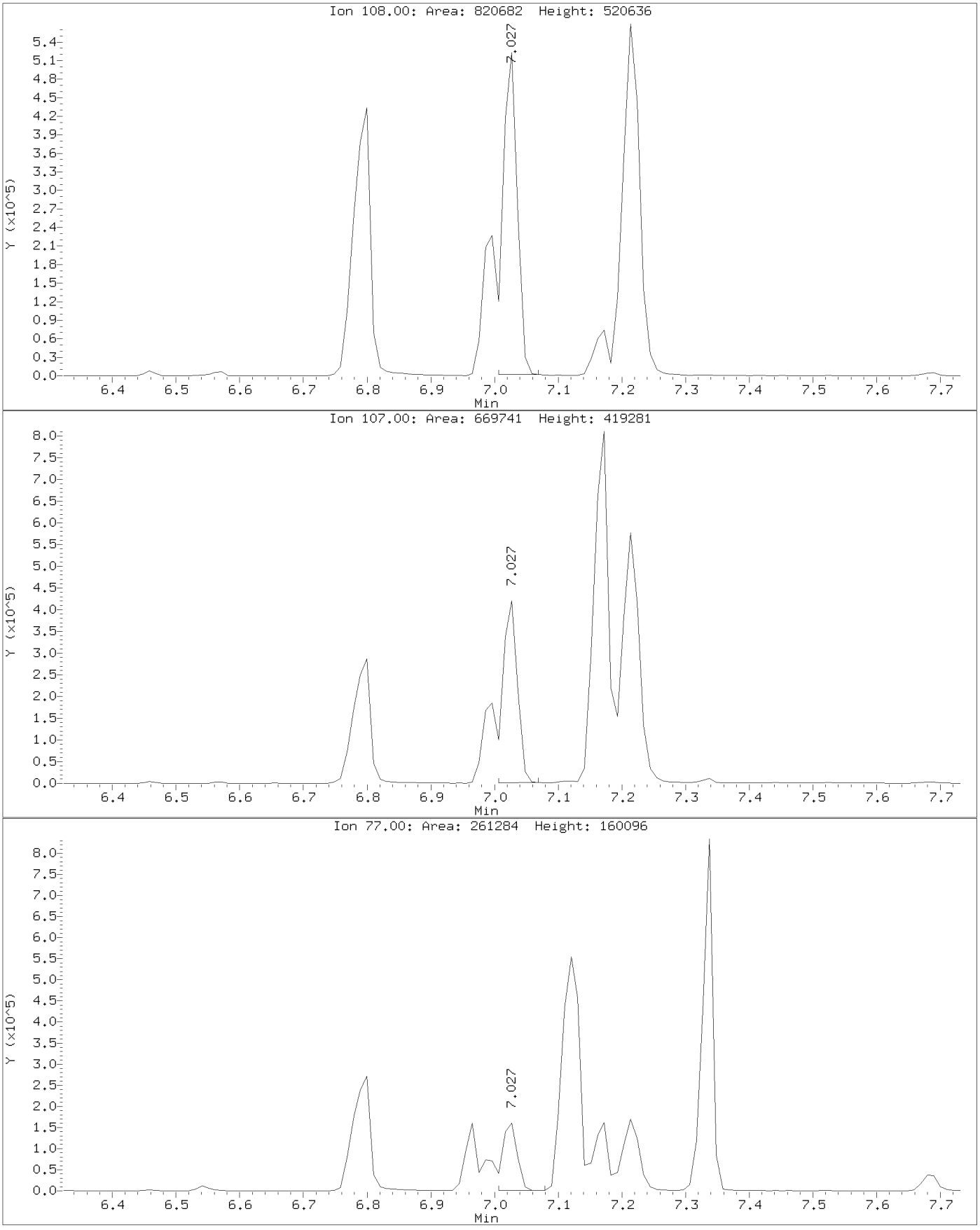
Compound: Dimethyl Phthalate
CAS Number: 131-11-3



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1620.D
Injection Date: 18-OCT-2023 11:45
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

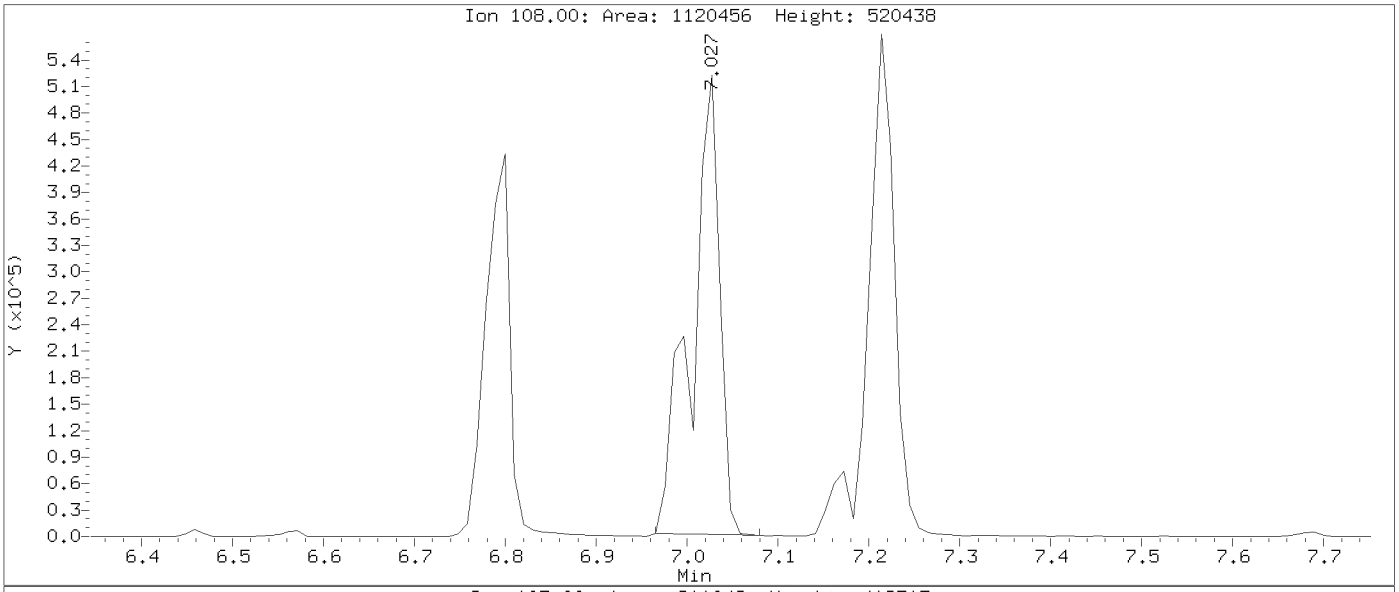
BEFORE MANUAL INTEGRATION

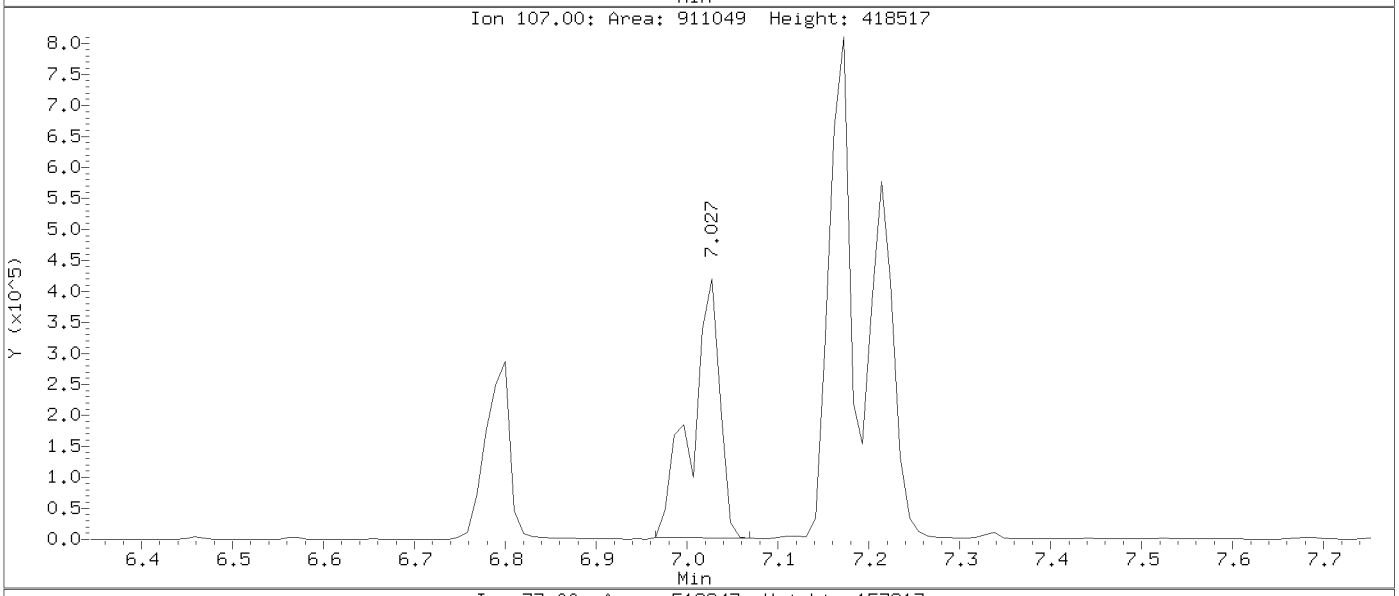


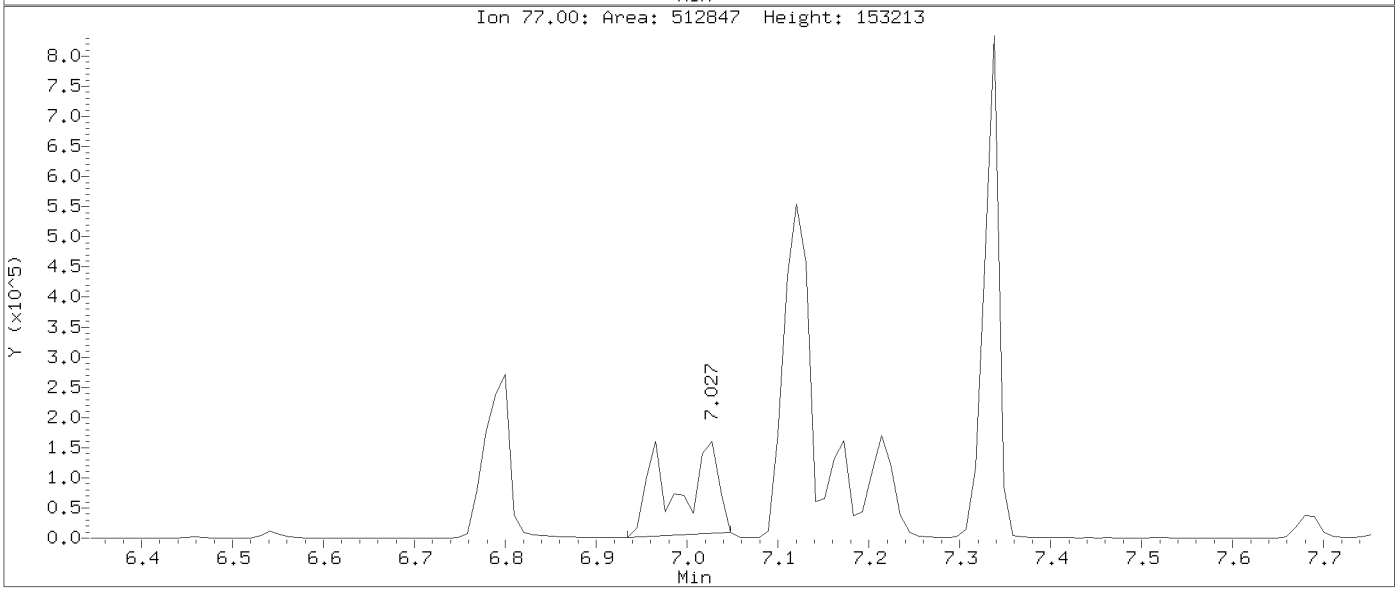
AFTER MANUAL INTEGRATION

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Injection Date: 18-OCT-2023 11:45
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7



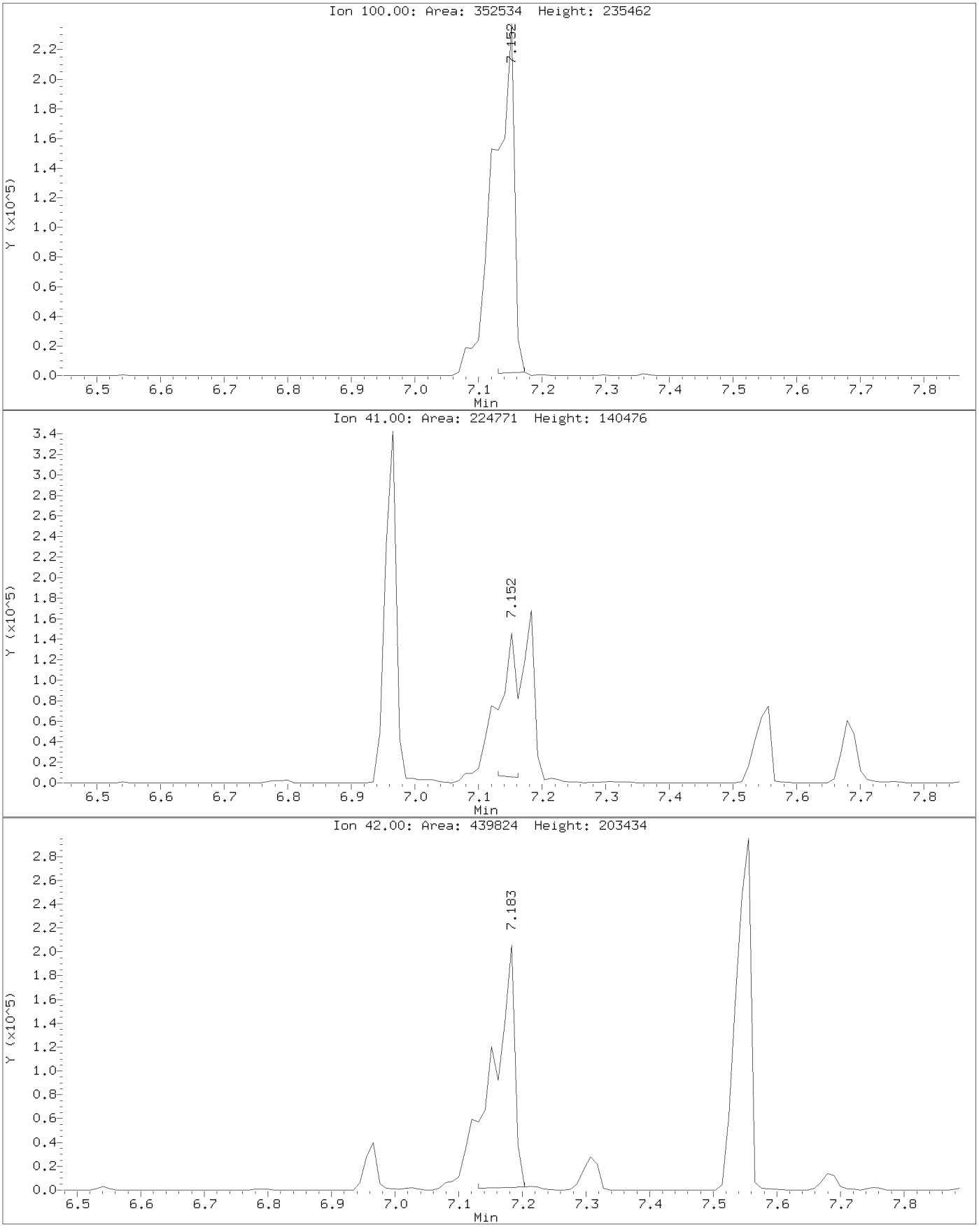




Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1620.D
Injection Date: 18-OCT-2023 11:45
Instrument: gcms-u.i
Client Sample ID:

Compound: N-Nitrosopyrrolidine
CAS Number: 930-55-2

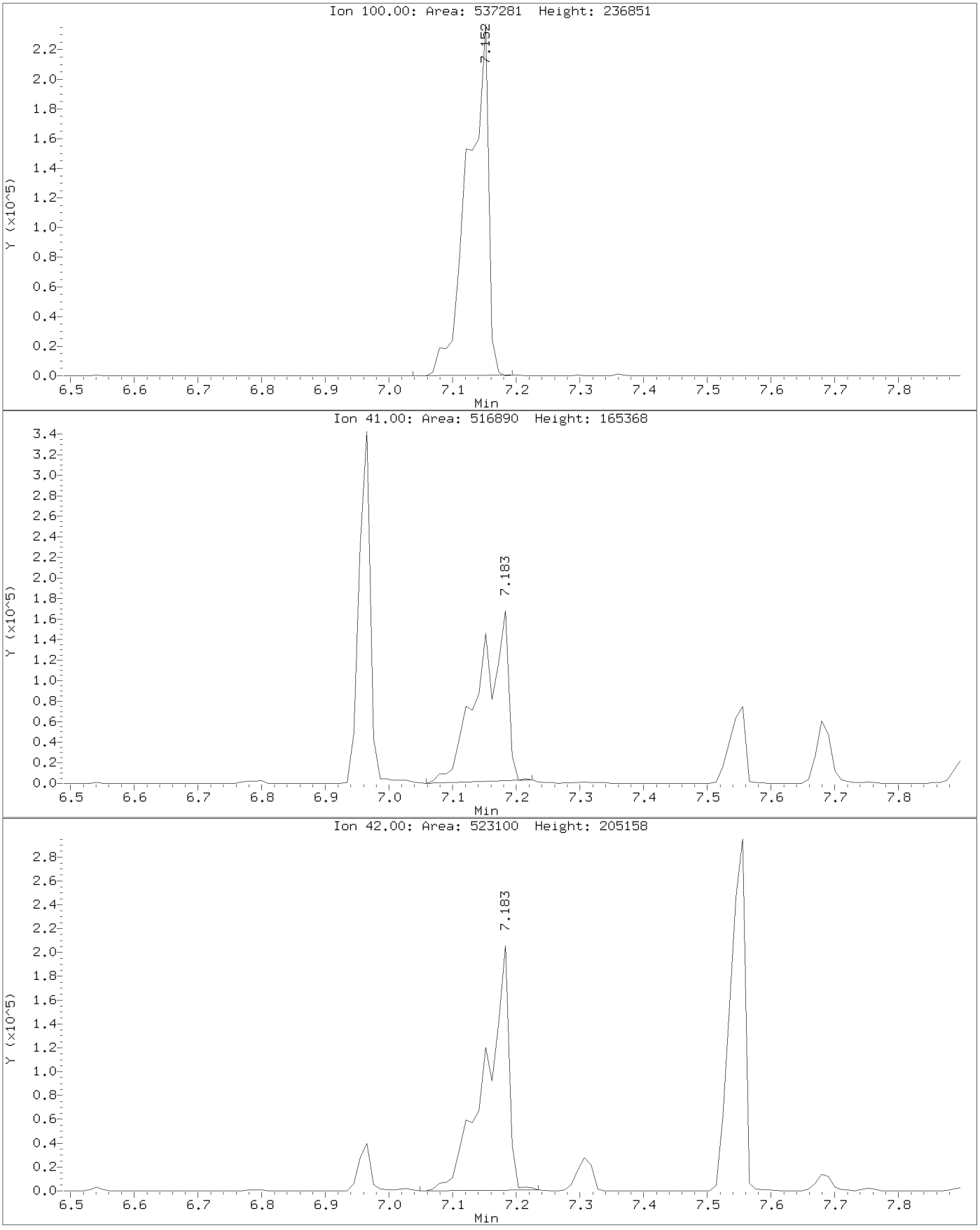
BEFORE MANUAL INTEGRATION



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Injection Date: 18-OCT-2023 11:45
Instrument: gcms-u.i
Client Sample ID:

Compound: N-Nitrosopyrrolidine
CAS Number: 930-55-2

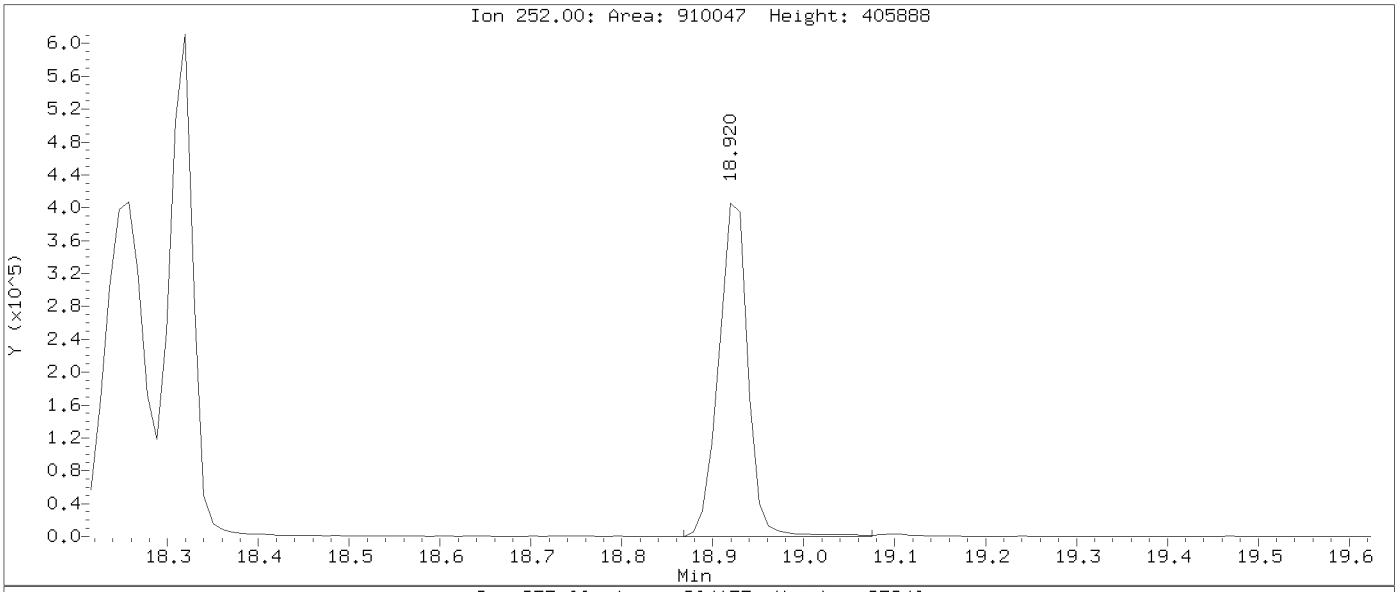
AFTER MANUAL INTEGRATION

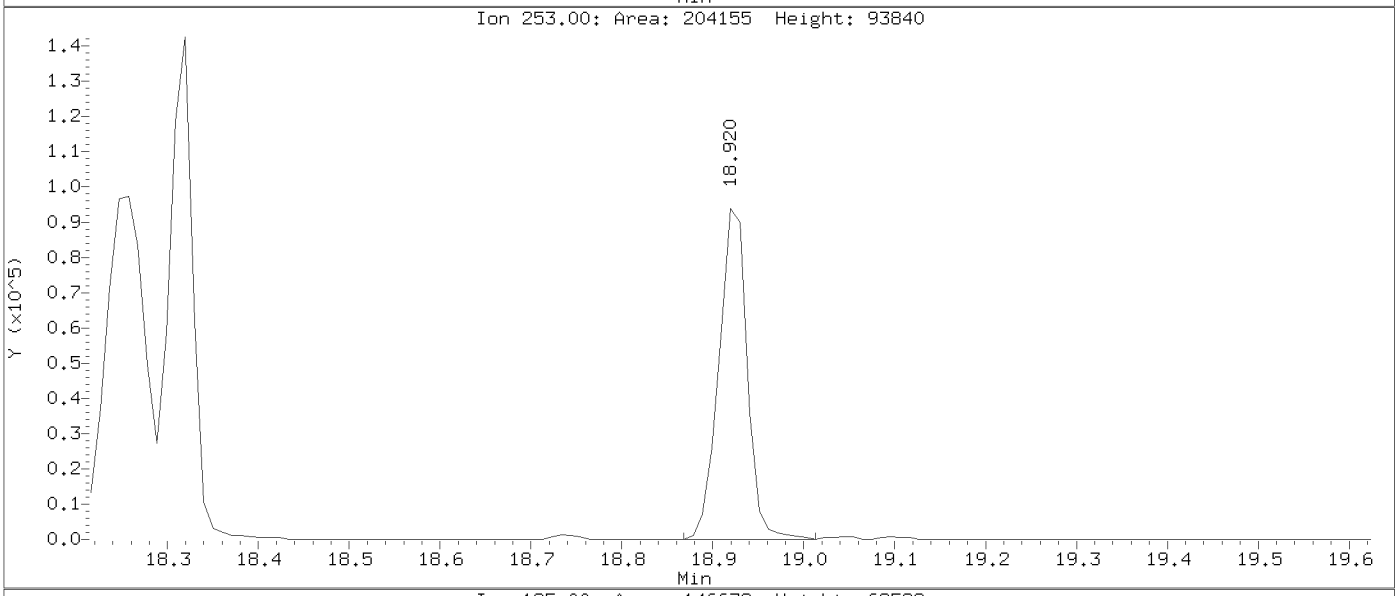


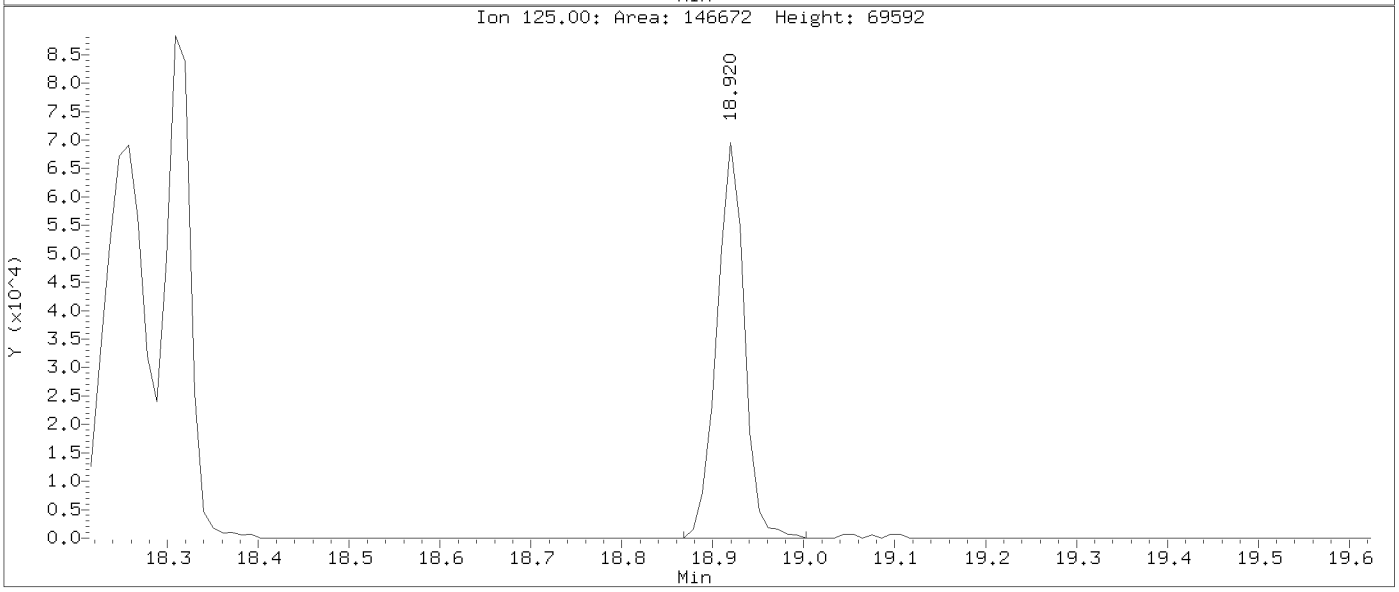
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Injection Date: 18-OCT-2023 11:45
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

BEFORE MANUAL INTEGRATION



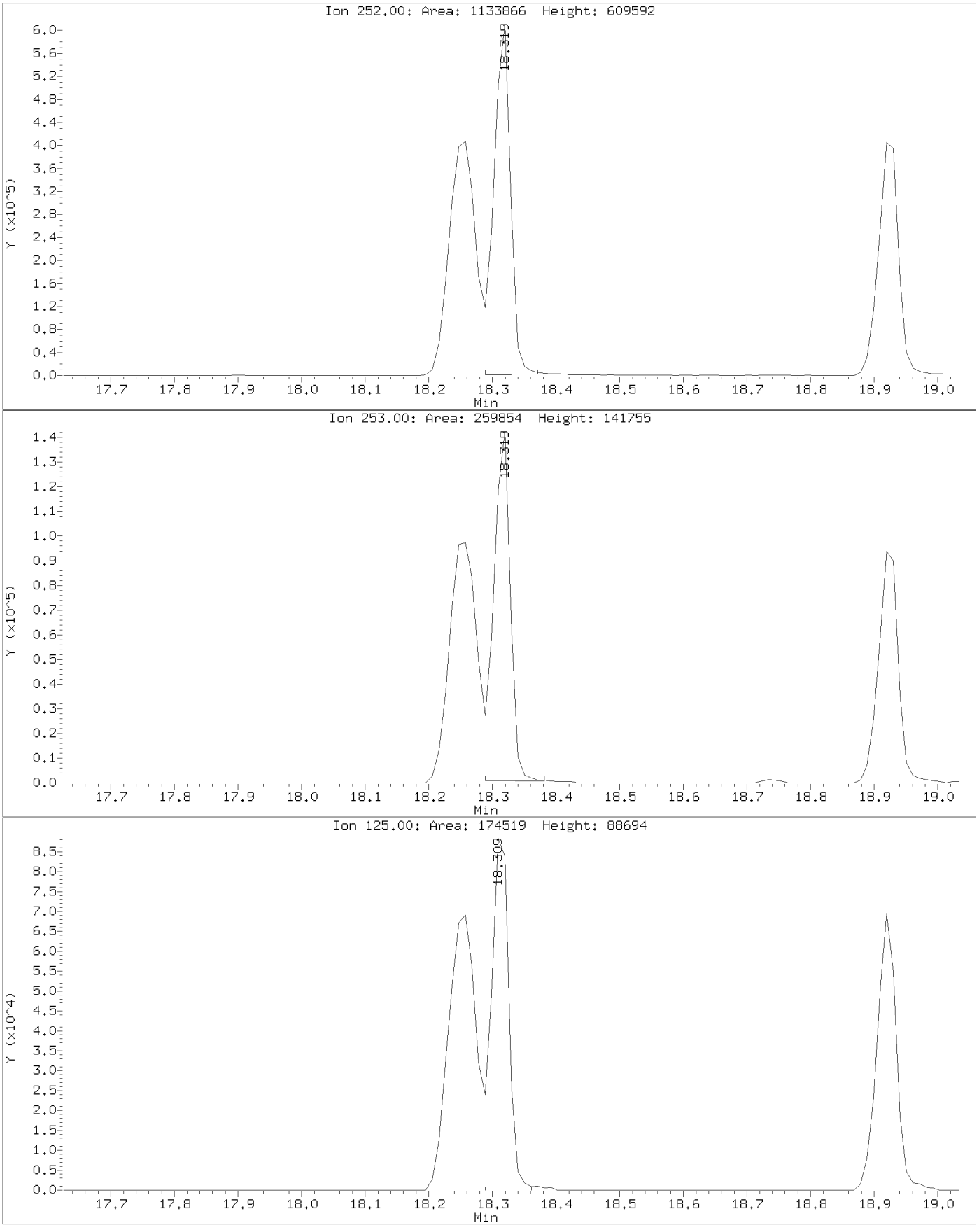




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Injection Date: 18-OCT-2023 11:45
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

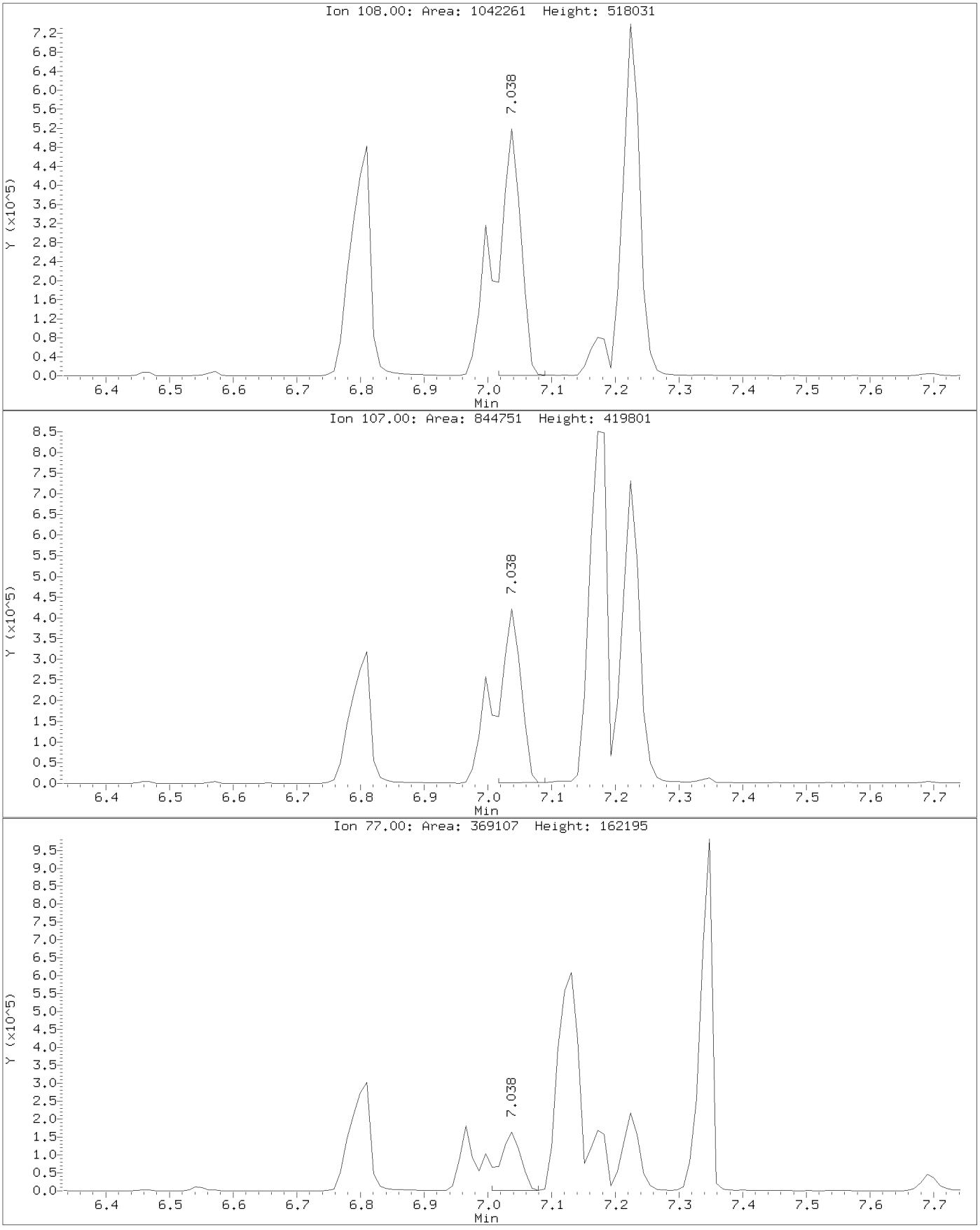
AFTER MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

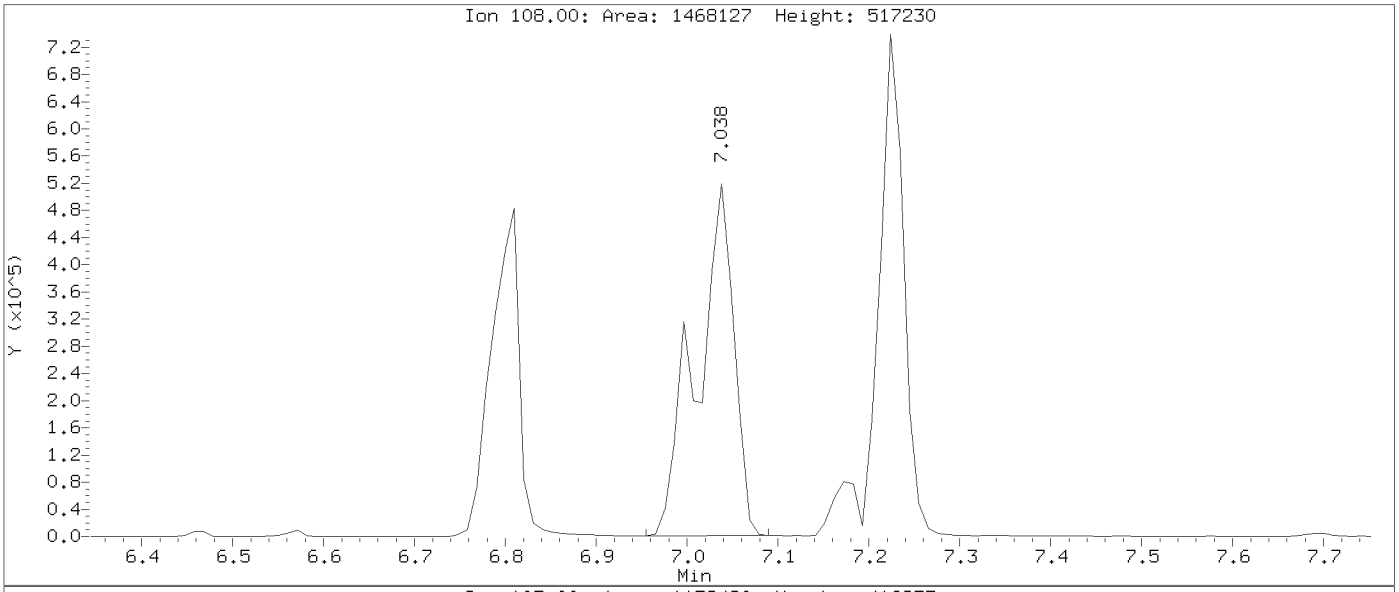
BEFORE MANUAL INTEGRATION

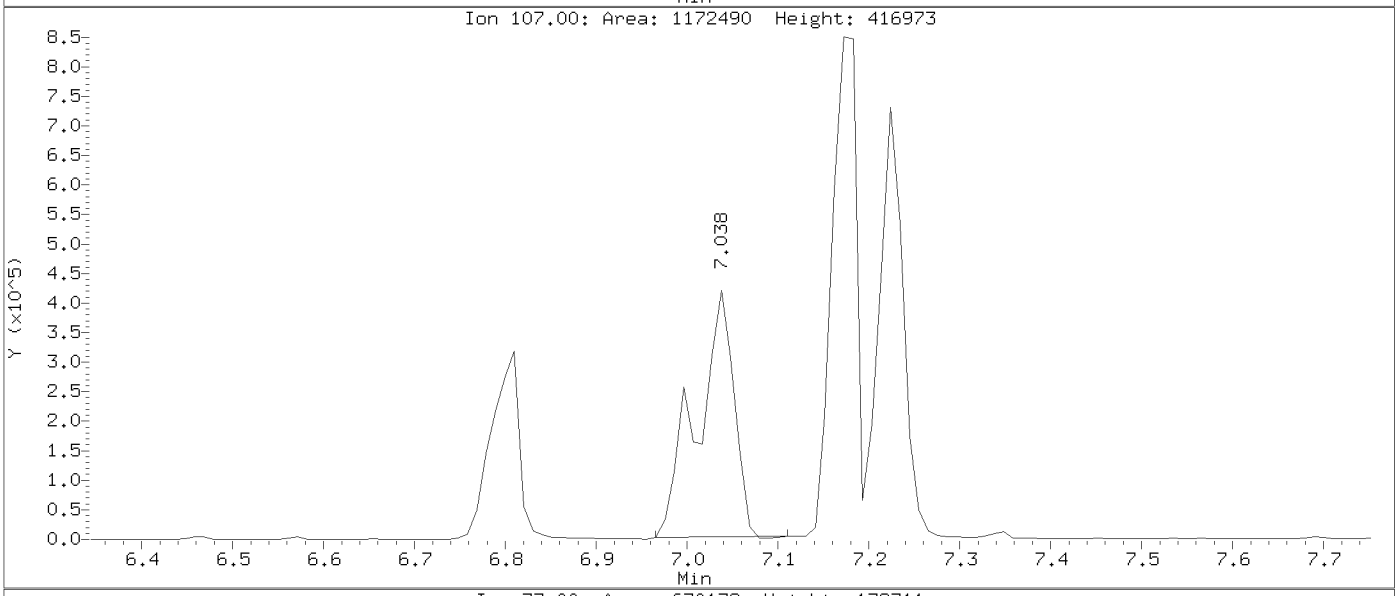


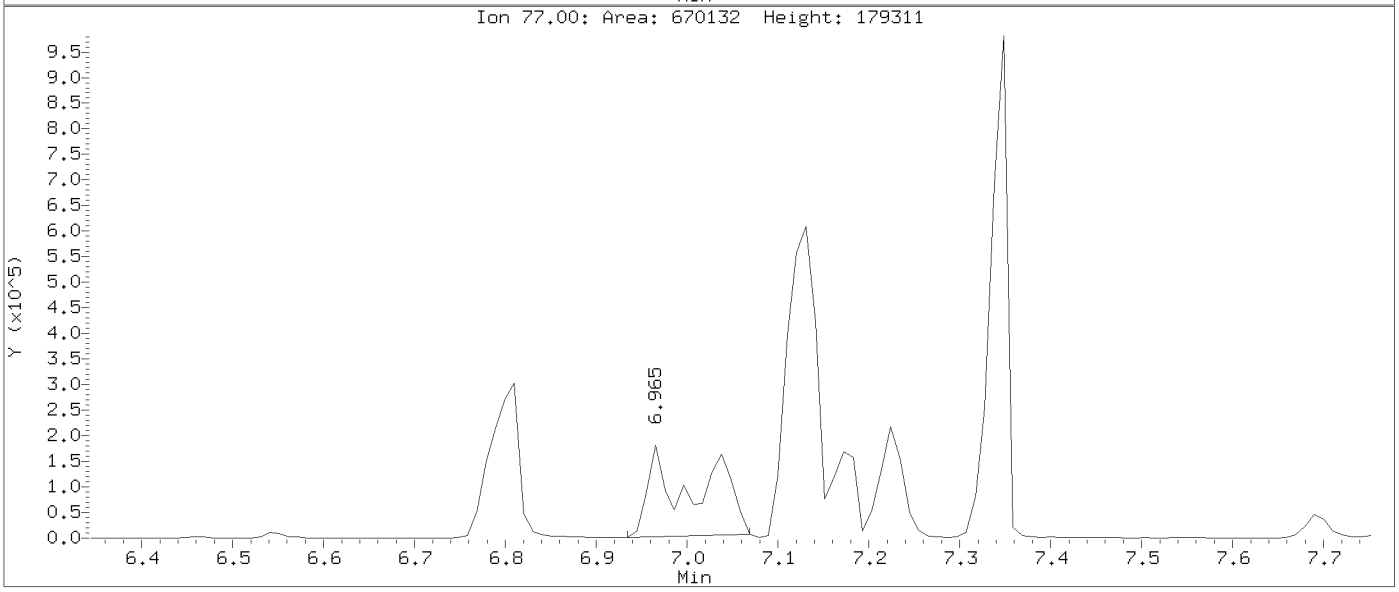
Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

AFTER MANUAL INTEGRATION



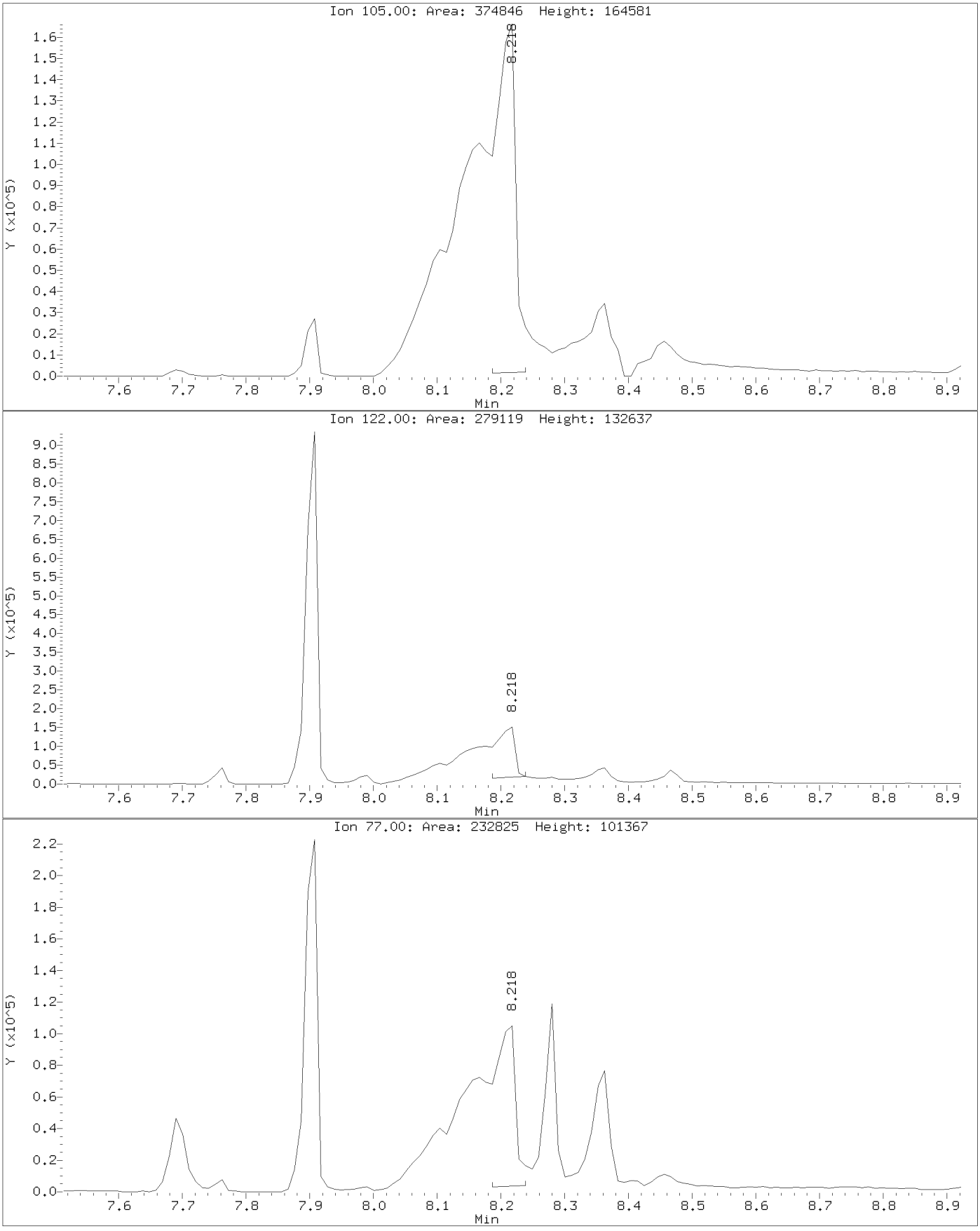




Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0

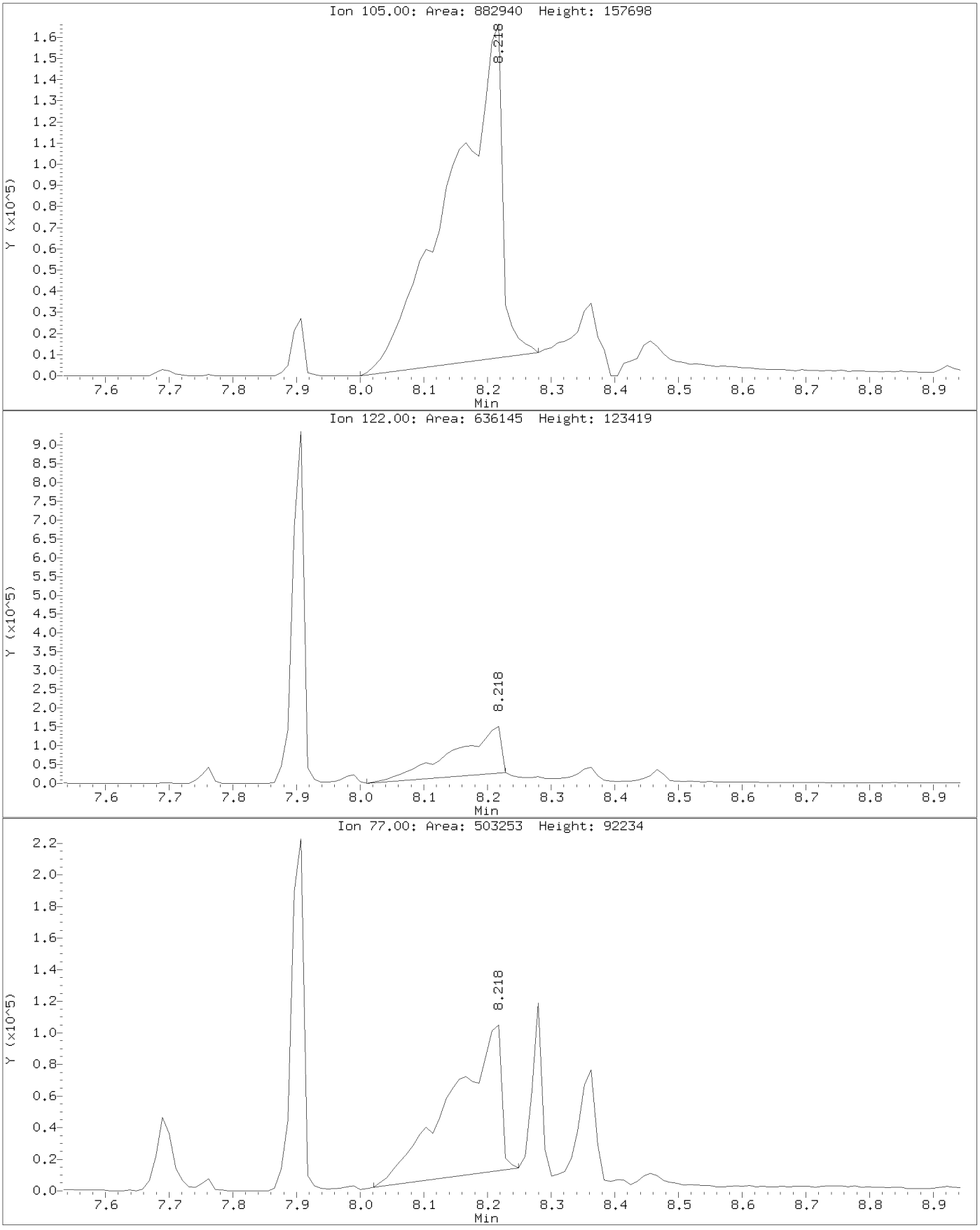
BEFORE MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0

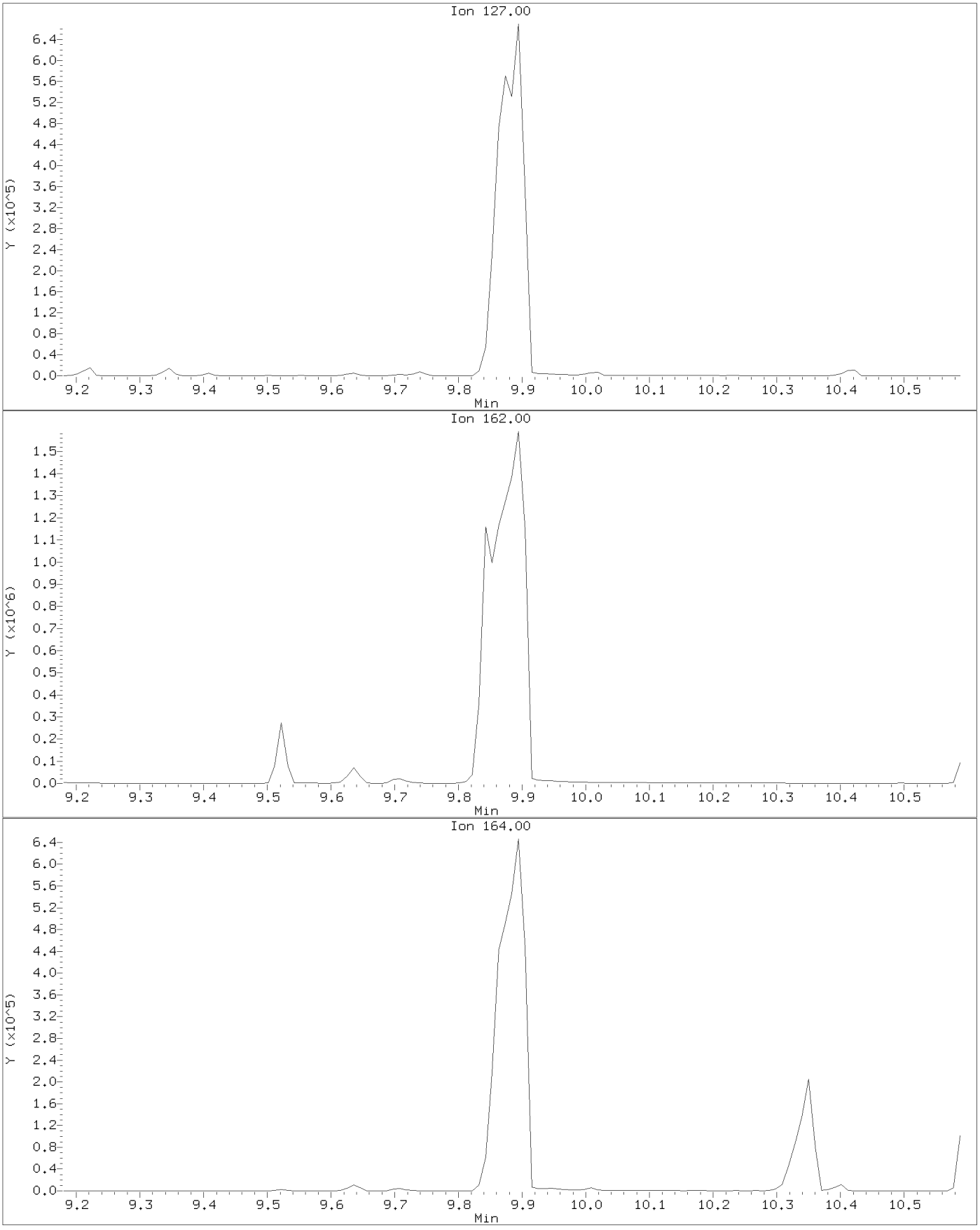
AFTER MANUAL INTEGRATION



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Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Chloronaphthalene
CAS Number: 91-58-7

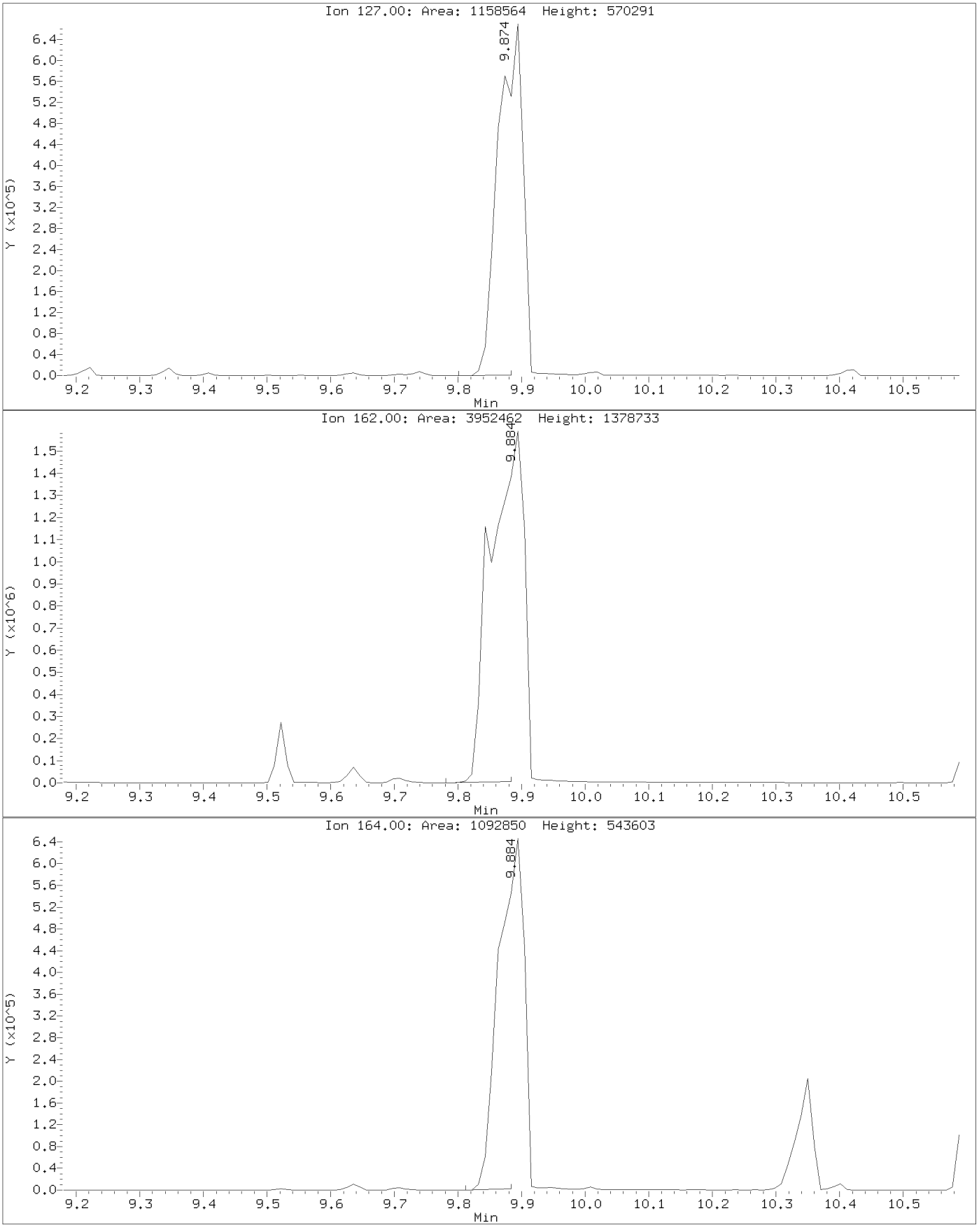
BEFORE MANUAL INTEGRATION



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Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Chloronaphthalene
CAS Number: 91-58-7

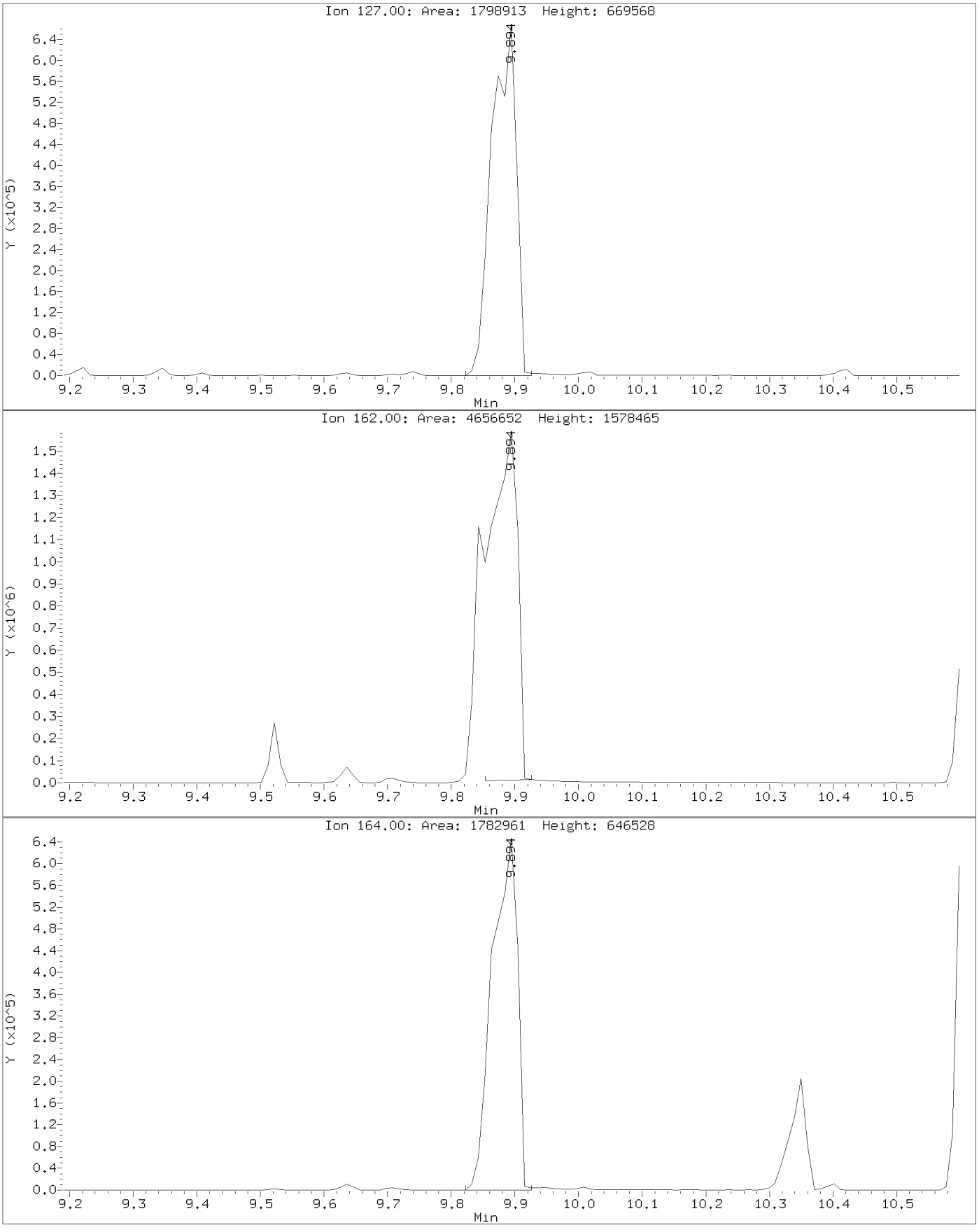
AFTER MANUAL INTEGRATION



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Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: 1-Chloronaphthalene
CAS Number: 90-13-1

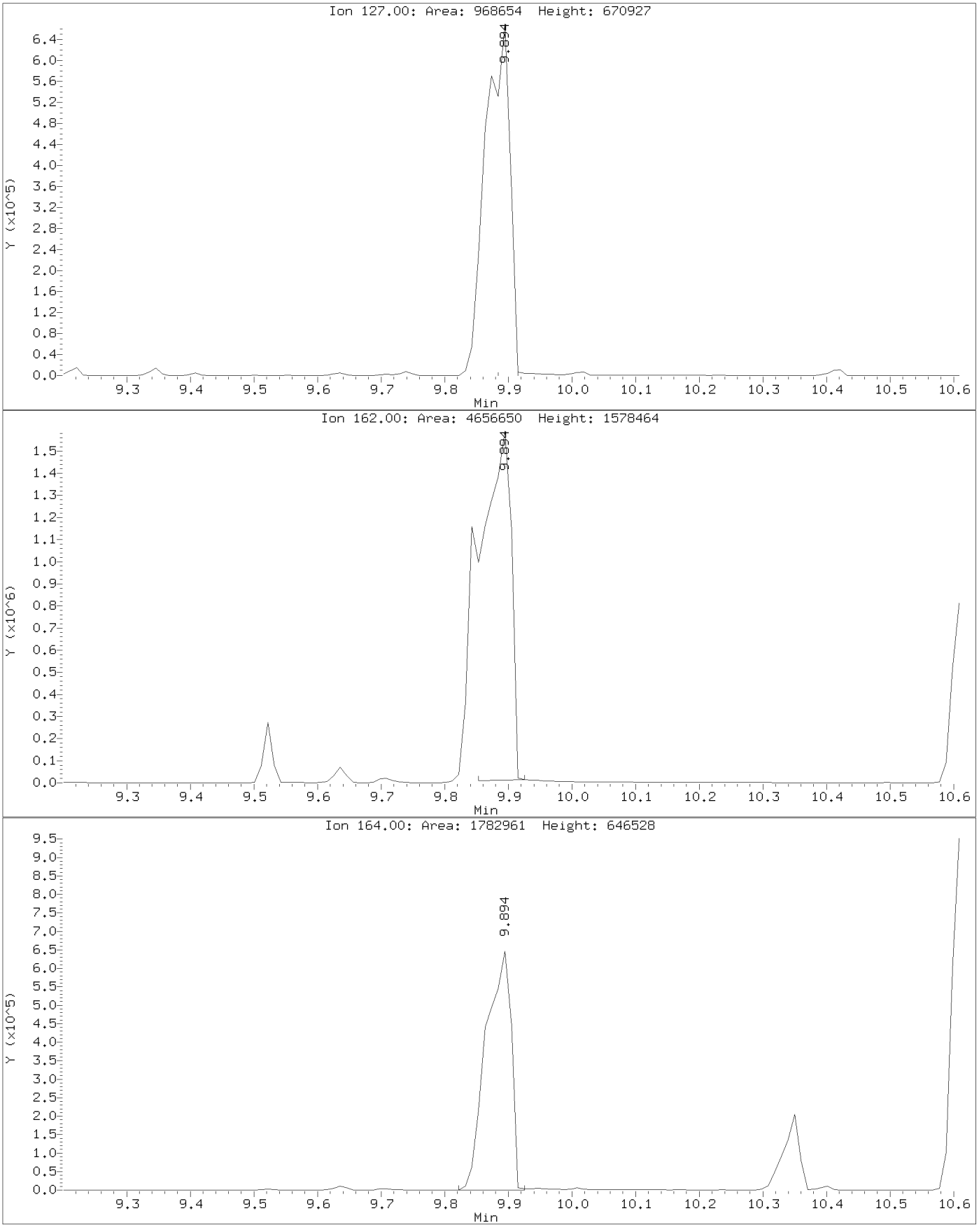
BEFORE MANUAL INTEGRATION



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Instrument: gcms-u.i
Client Sample ID:

Compound: 1-Chloronaphthalene
CAS Number: 90-13-1

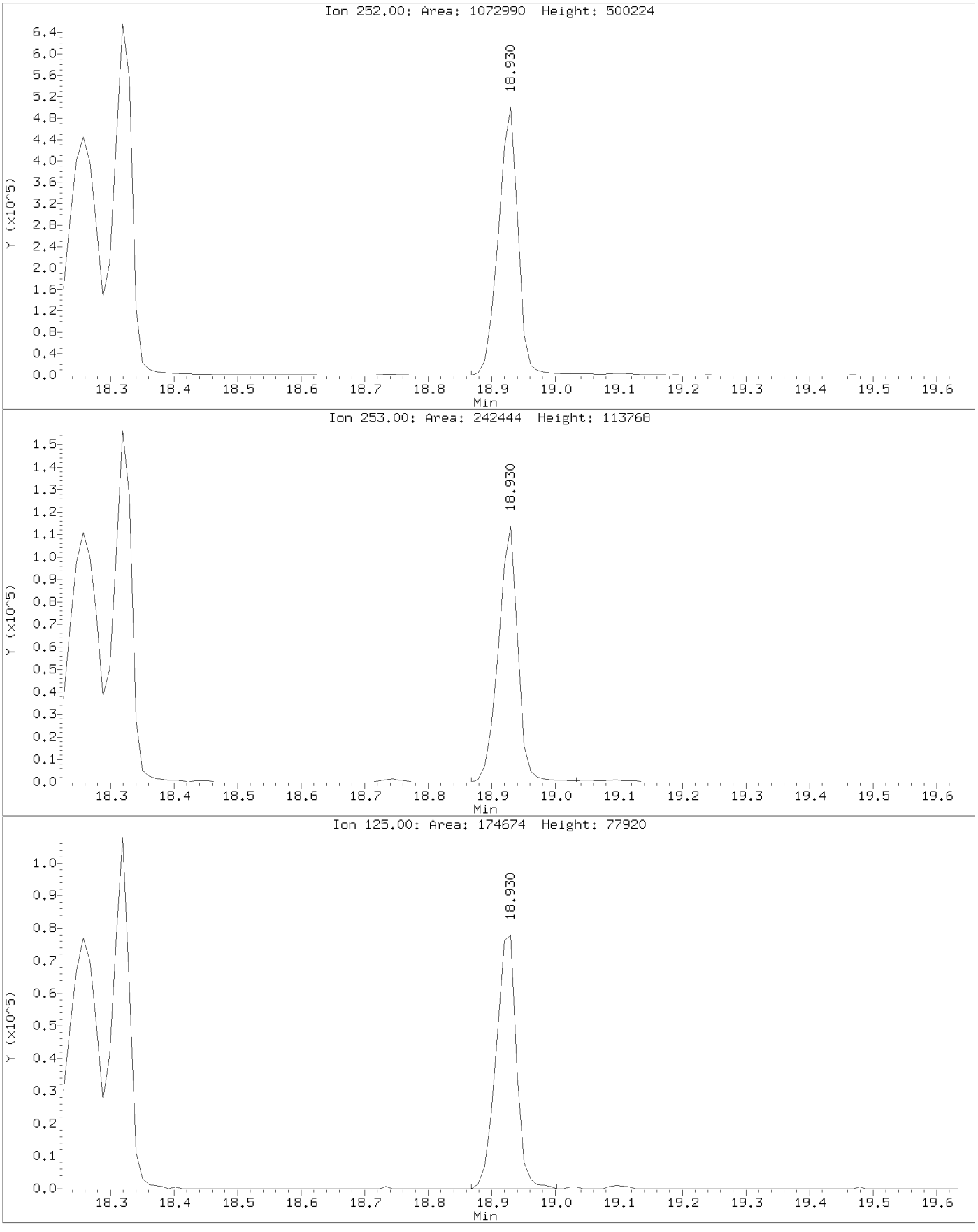
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Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

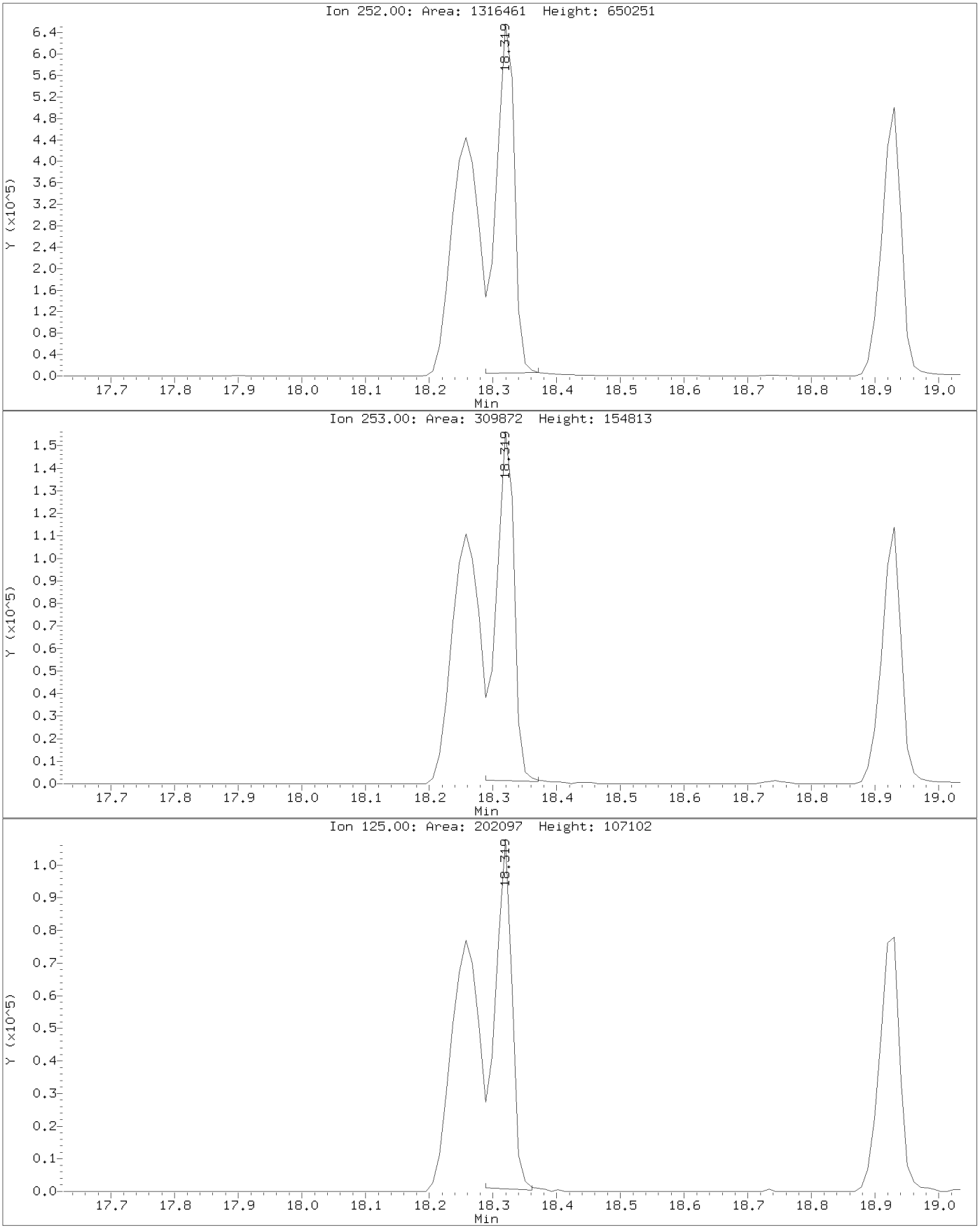
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Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

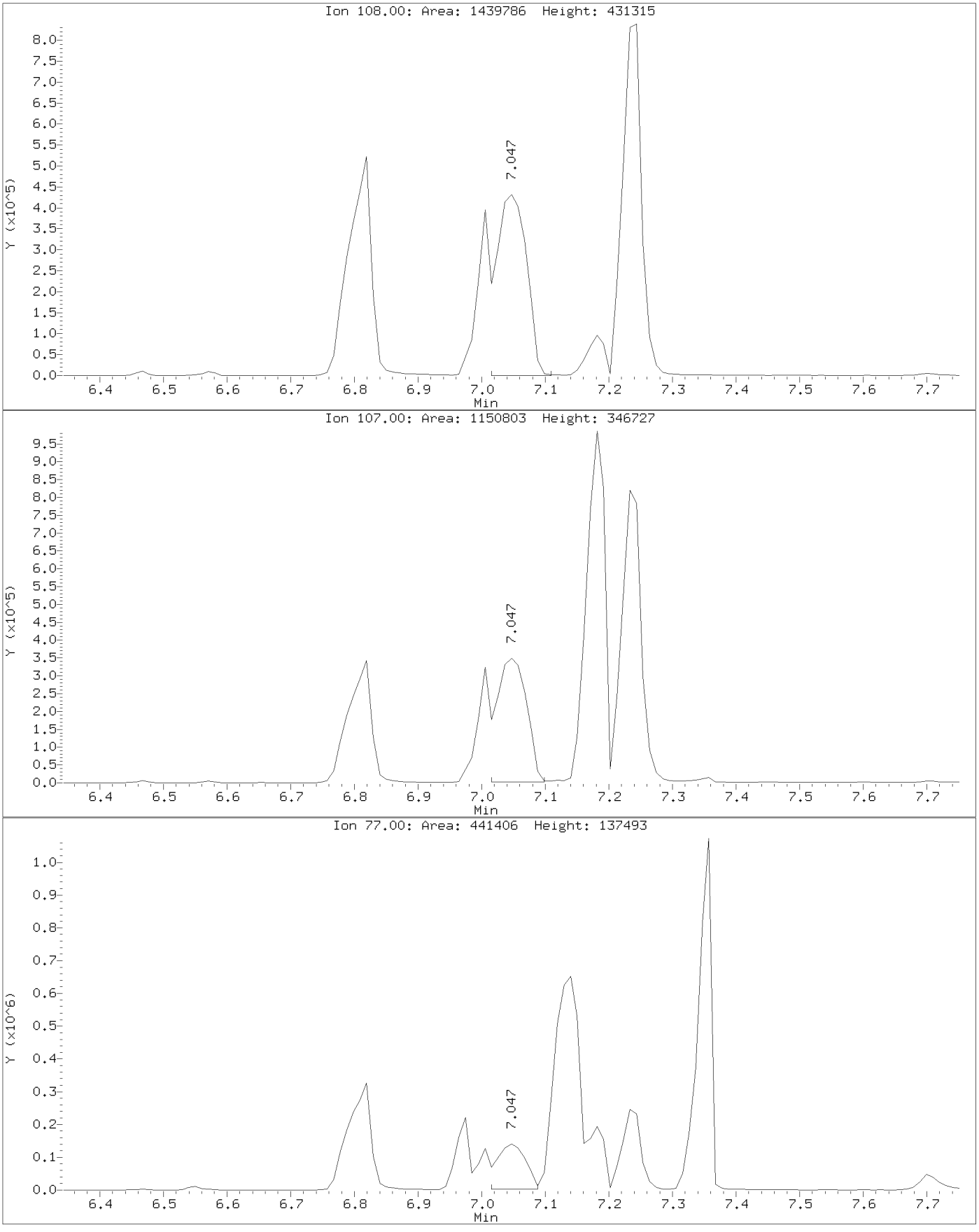
AFTER MANUAL INTEGRATION



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Injection Date: 18-OCT-2023 12:47
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

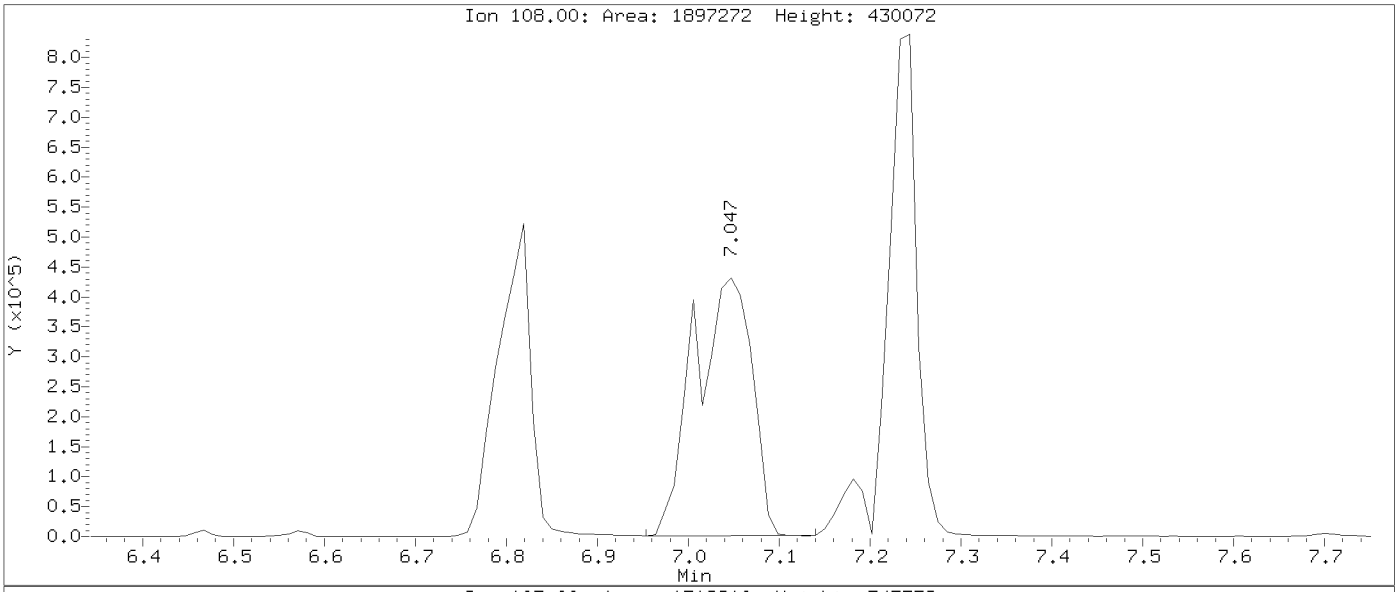
BEFORE MANUAL INTEGRATION

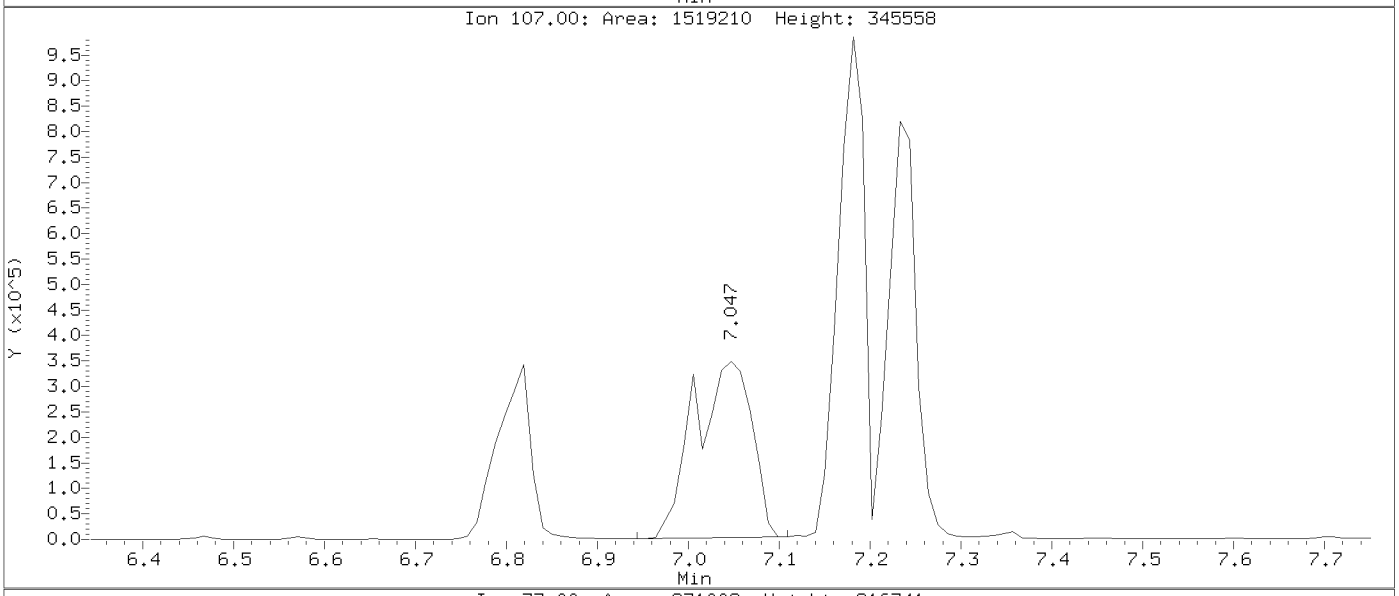


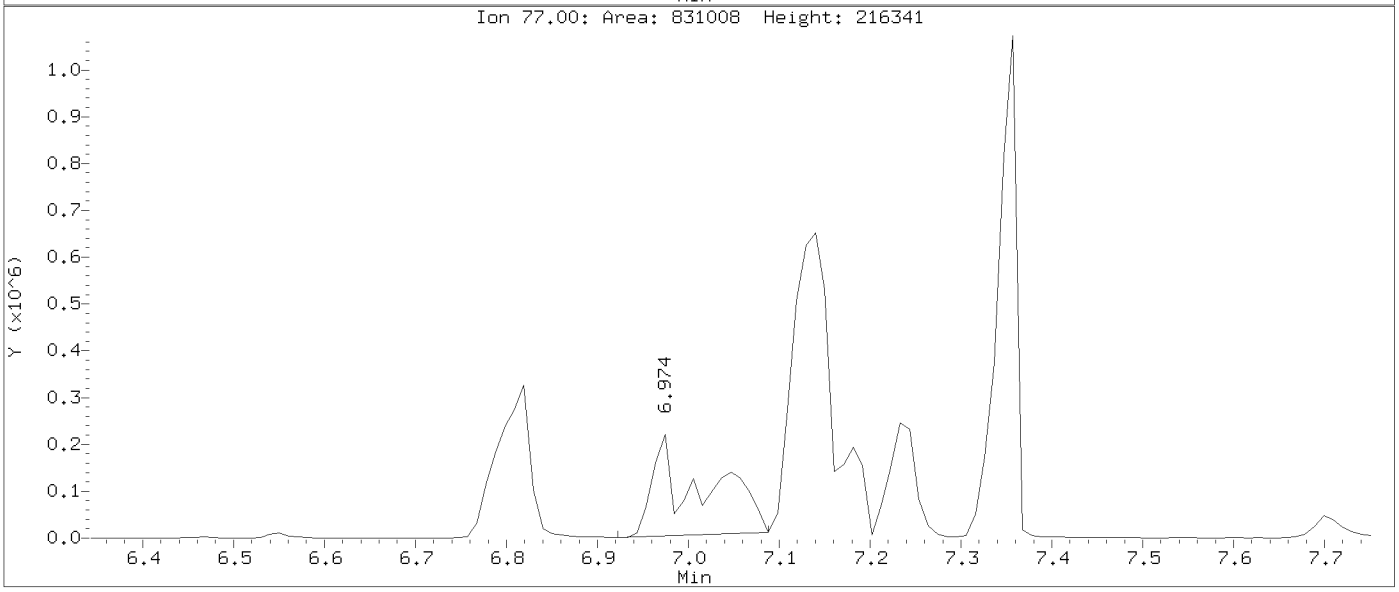
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Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

AFTER MANUAL INTEGRATION



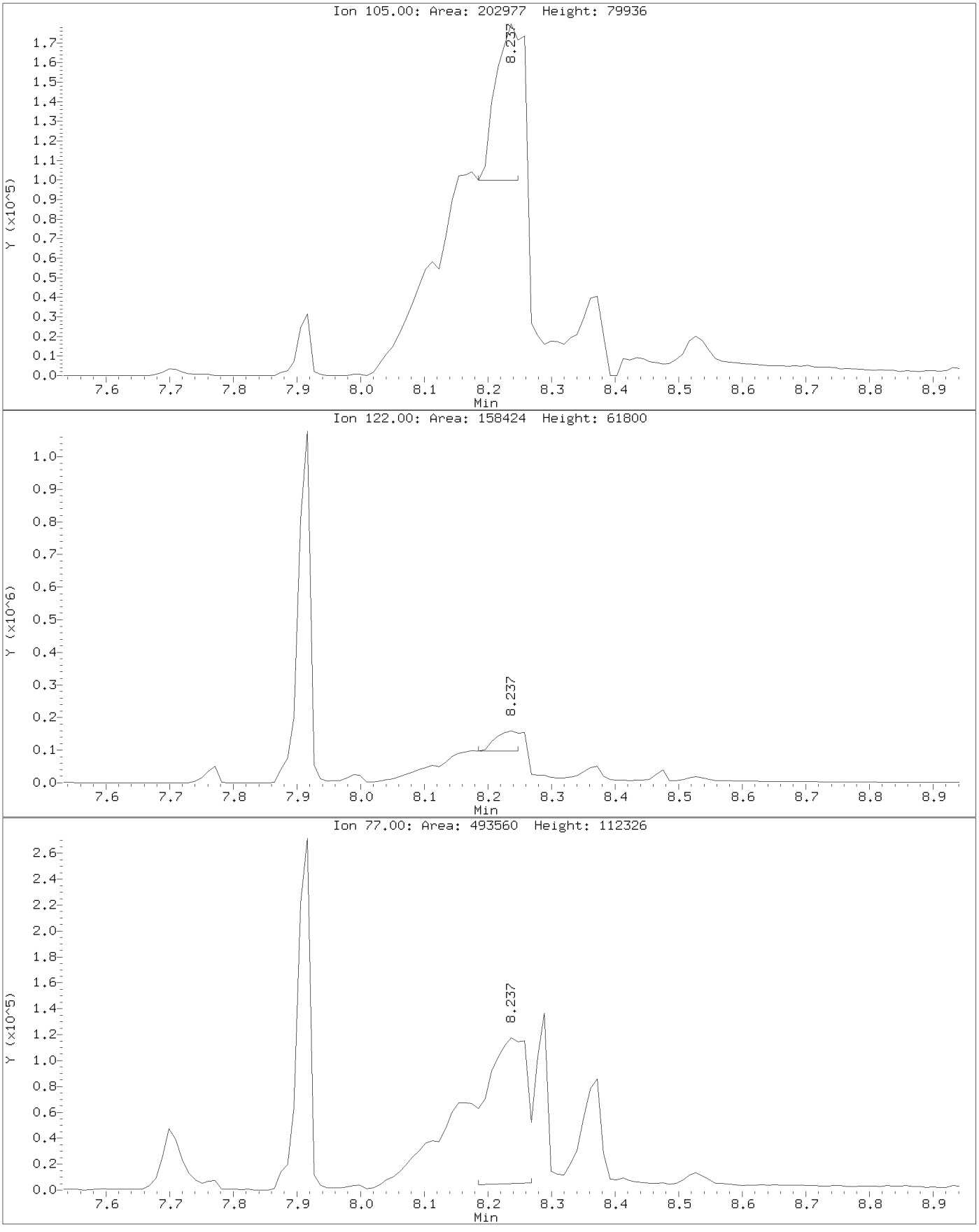




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Injection Date: 18-OCT-2023 12:47
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0

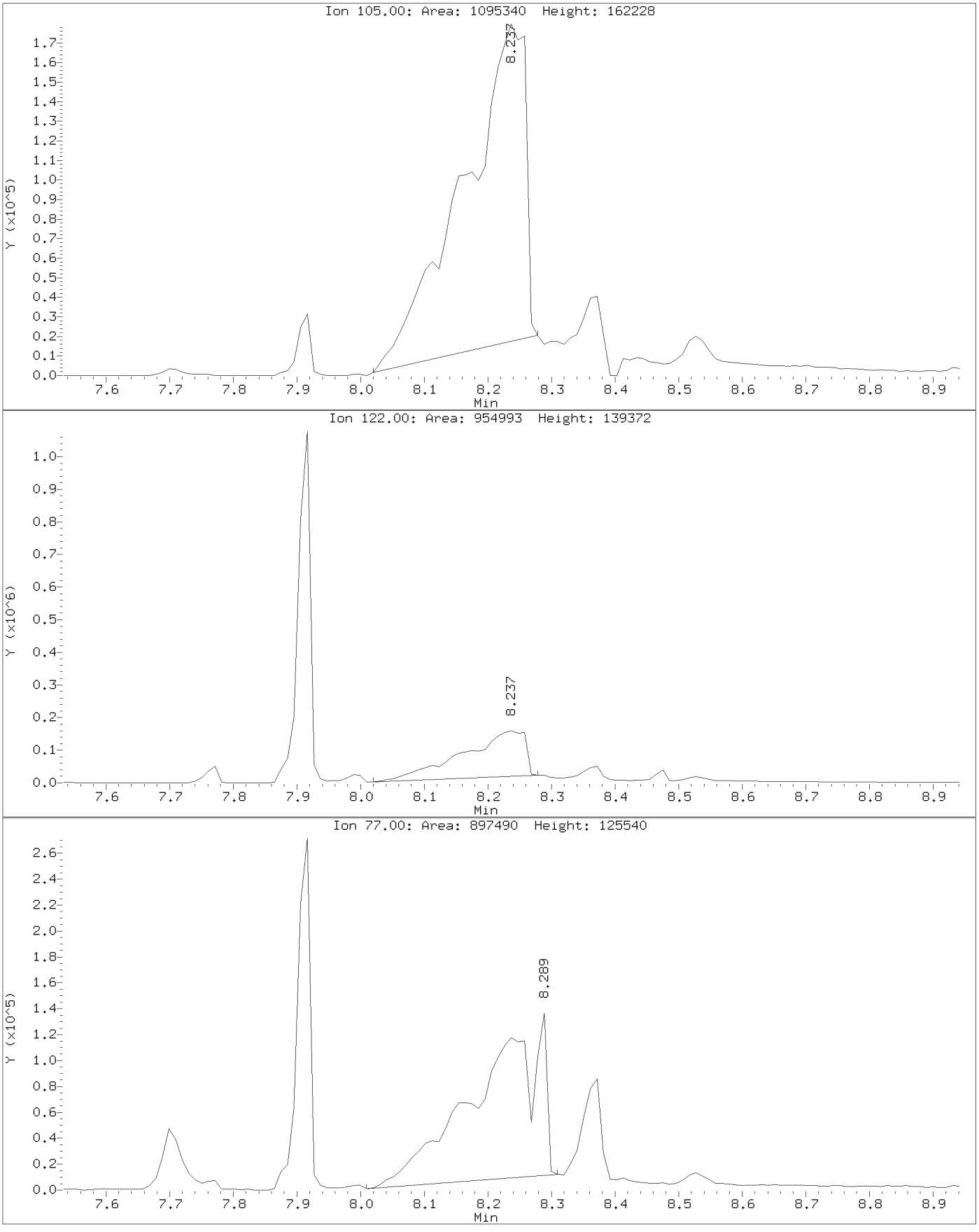
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Instrument: gcms-u.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0

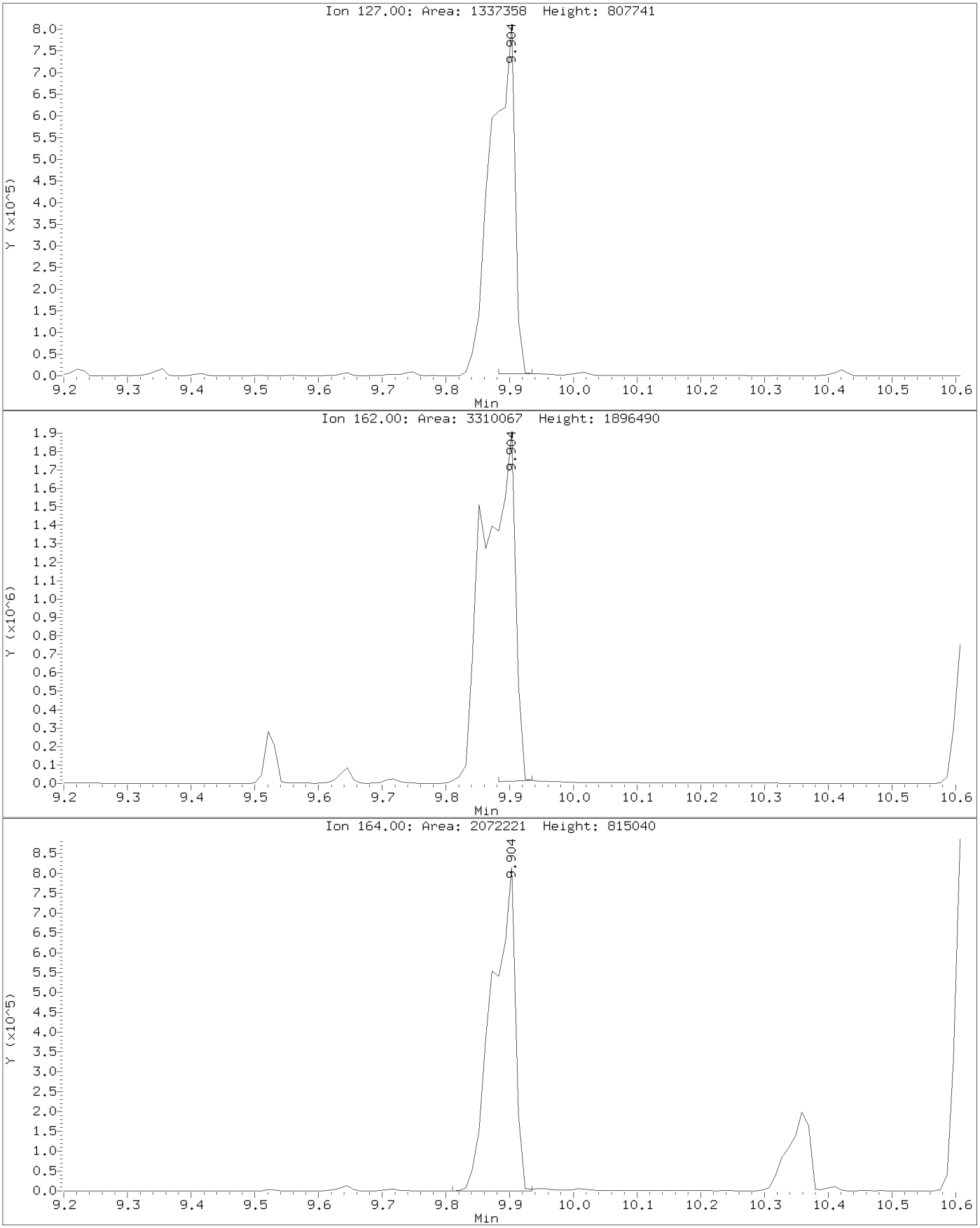
AFTER MANUAL INTEGRATION



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Injection Date: 18-OCT-2023 12:47
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Chloronaphthalene
CAS Number: 91-58-7

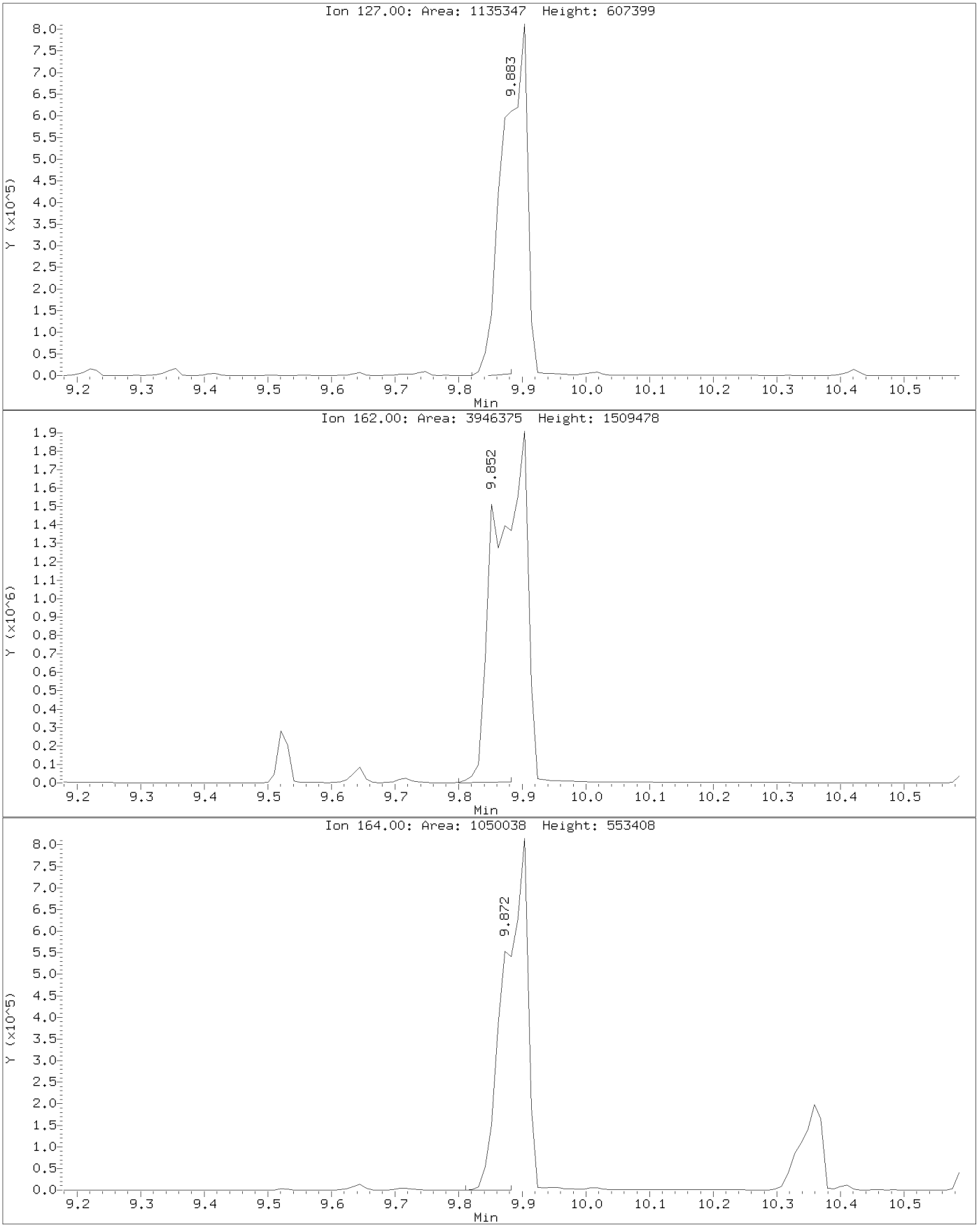
BEFORE MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Injection Date: 18-OCT-2023 12:47
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Chloronaphthalene
CAS Number: 91-58-7

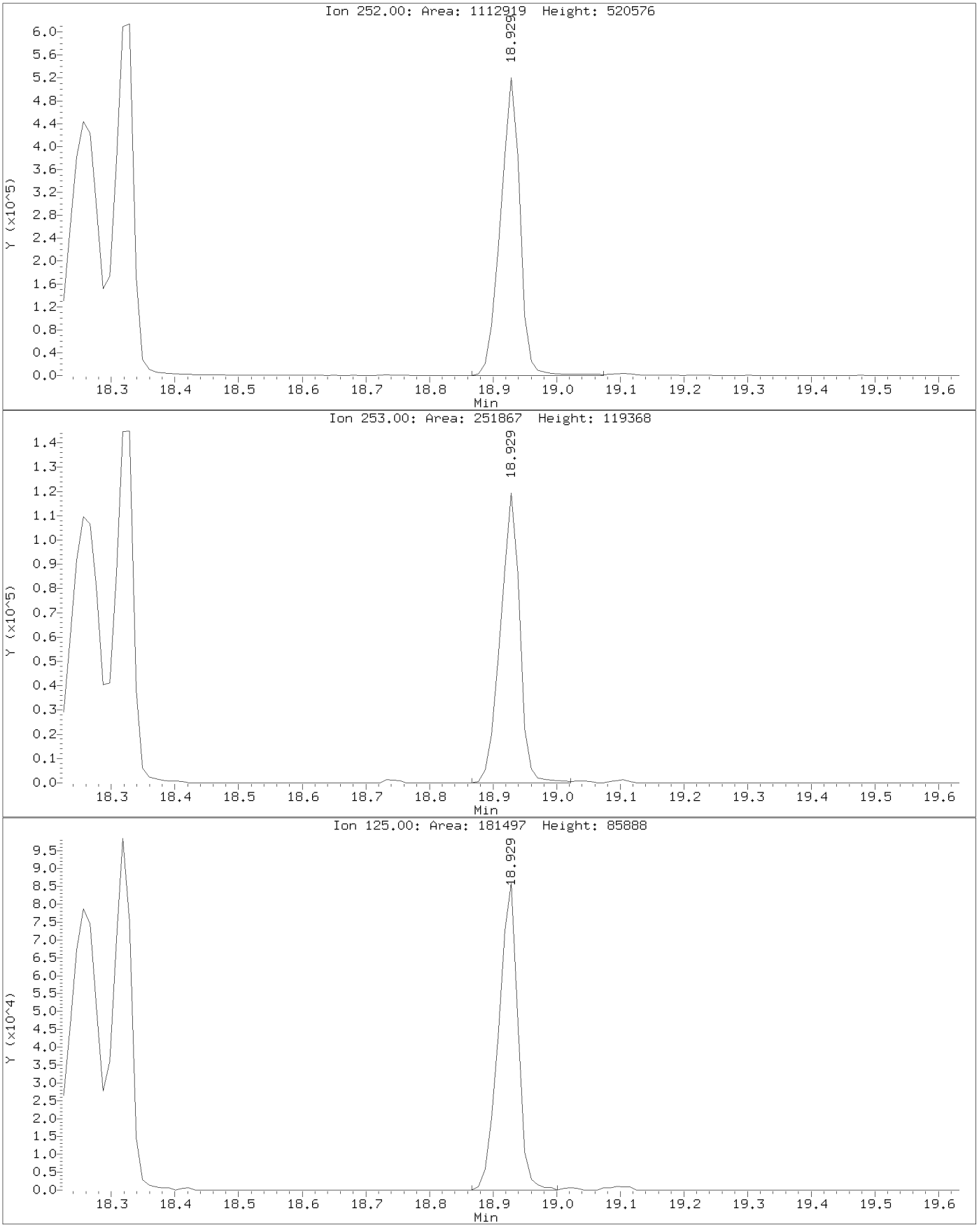
AFTER MANUAL INTEGRATION



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Injection Date: 18-OCT-2023 12:47
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

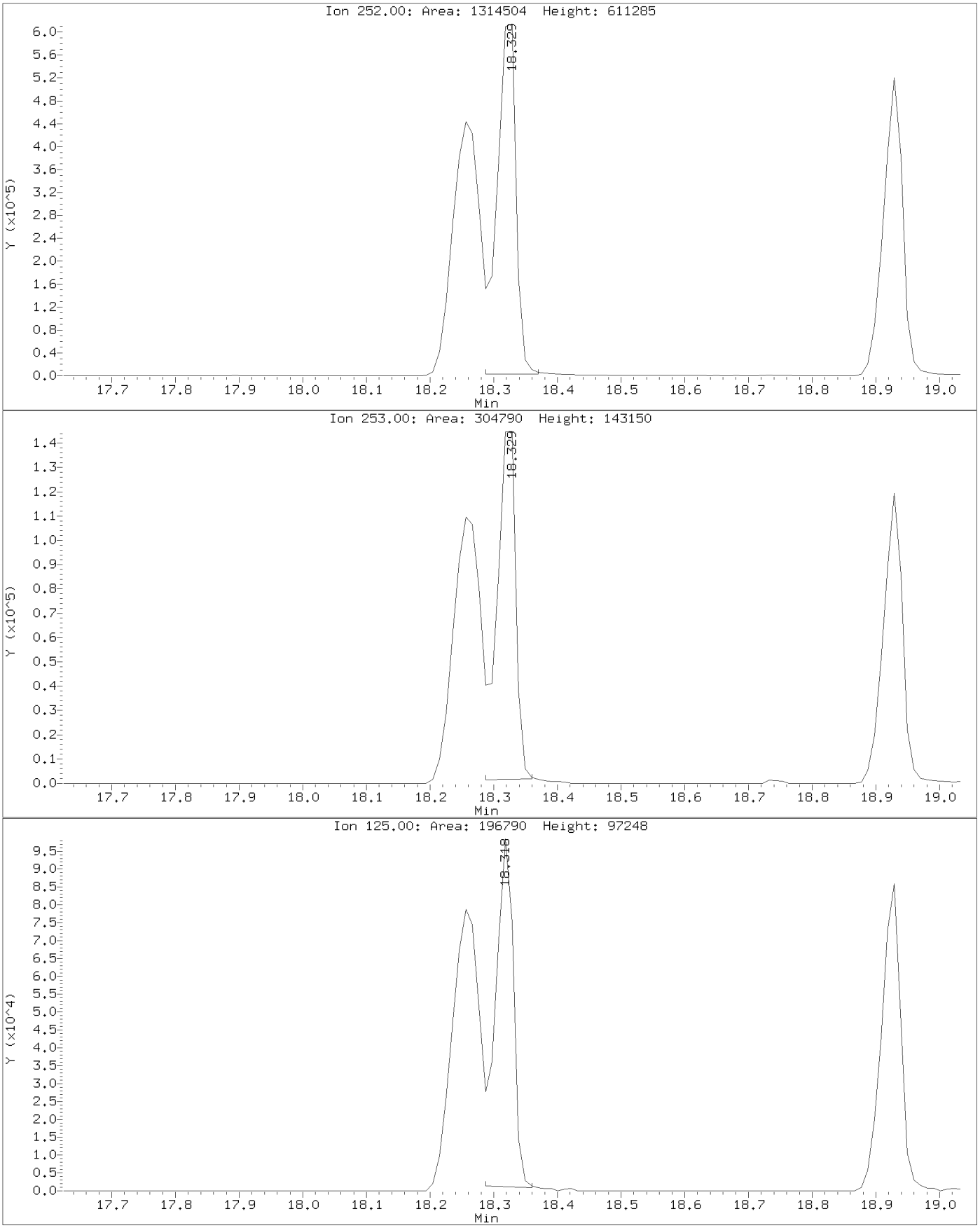
BEFORE MANUAL INTEGRATION



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Instrument: gcms-u.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

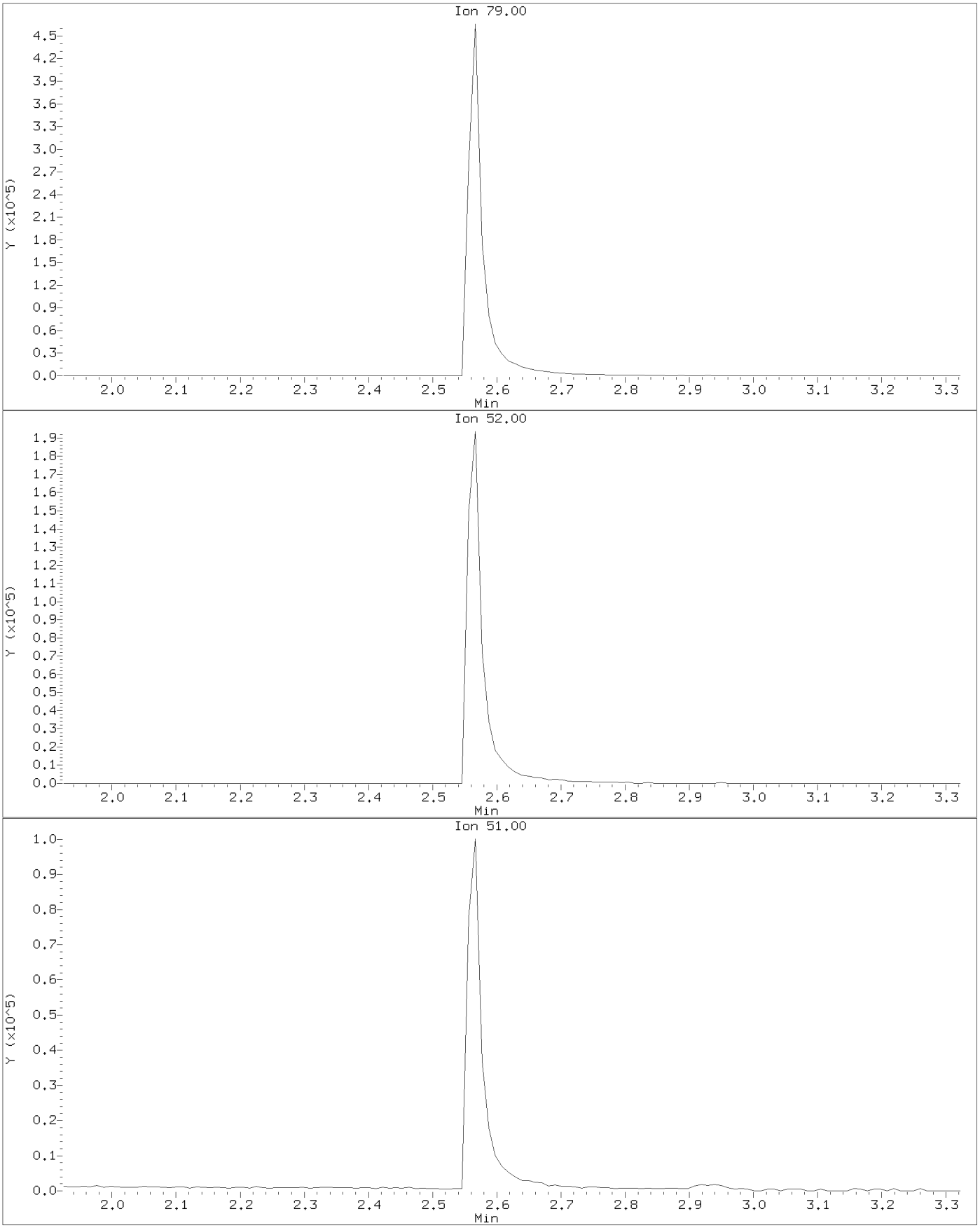
AFTER MANUAL INTEGRATION



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Injection Date: 18-OCT-2023 13:17
Instrument: gcms-u.i
Client Sample ID:

Compound: Pyridine
CAS Number: 110-86-1

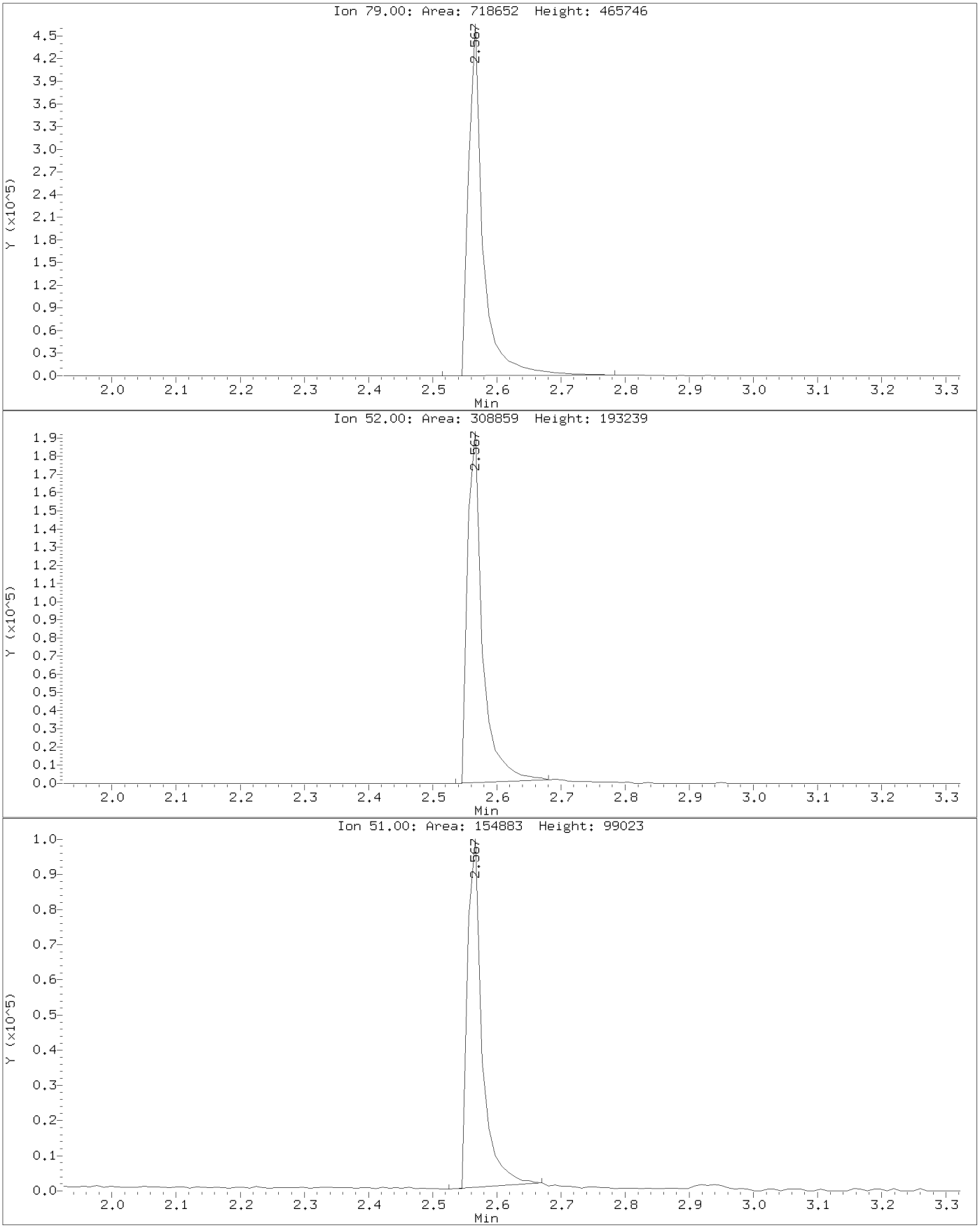
BEFORE MANUAL INTEGRATION



AFTER MANUAL INTEGRATION

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1623.D
Injection Date: 18-OCT-2023 13:17
Instrument: gcms-u.i
Client Sample ID:

Compound: Pyridine
CAS Number: 110-86-1



Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG344071-9
Analytical Date: 10/18/23 20:36
Lab File ID: U1637.D
Instrument ID: GCMS-U
Initial Calibration Date(s): 10/18/23 10:13 10/18/23 12:47
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Pyridine	1.03467	0.99633	0.99633	0.010	-3.70559	20.000	Averaged	
1,4-Dichlorobenzene	50.00000	51.38228	1.31256	0.010	2.76456	20.010	Quadratic	
2-Methylphenol	1.04252	1.01687	1.01687	0.010	-2.46026	20.000	Averaged	
3&4-Methylphenol	1.00238	1.01795	1.01795	0.010	1.55298	20.000	Averaged	
Hexachloroethane	50.00000	52.59475	0.52358	0.010	5.18951	20.000	Quadratic	
Nitrobenzene	0.29107	0.28643	0.28643	0.010	-1.59360	20.000	Averaged	
Hexachlorobutadiene	50.00000	51.35104	0.19962	0.010	2.70208	20.010	Quadratic	
2,4,6-Trichlorophenol	0.38153	0.37670	0.37670	0.010	-1.26723	20.000	Averaged	
2,4,5-Trichlorophenol	0.41018	0.40146	0.40146	0.010	-2.12731	20.000	Averaged	
2,4-Dinitrotoluene	0.41939	0.44757	0.44757	0.010	6.71918	20.000	Averaged	
Hexachlorobenzene	50.00000	53.75839	0.21045	0.010	7.51677	20.000	Quadratic	
Pentachlorophenol	0.14080	0.13740	0.13740	0.010	-2.41607	20.000	Averaged	
2-Fluorophenol	1.09730	1.09717	1.09717	0.010	-0.01179	20.000	Averaged	
Phenol-D6	1.10447	1.14657	1.14657	0.010	3.81199	20.000	Averaged	
Nitrobenzene-D5	0.30323	0.30287	0.30287	0.010	-0.11666	20.000	Averaged	
2-Fluorobiphenyl	50.00000	51.63263	1.13593	0.010	3.26526	20.000	Quadratic	
2,4,6-Tribromophenol	0.15570	0.15534	0.15534	0.010	-0.23475	20.000	Averaged	
Terphenyl-D14	1.13598	1.42659	1.42659	0.010	25.58232	20.000	Averaged	*

*** = Compound out of QC criteria**

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1637.D
Report Date: 17-Nov-2023 10:36

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1637.D
Lab Smp Id: WG344071-9
Inj Date : 18-OCT-2023 20:36
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344071-9
Misc Info : WG344071,WG344071,WG344071-4,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 17-Nov-2023 09:41 gcms-u.i   Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47   Cal File: U1622.D
Als bottle: 2   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all_DOD5.sub
Target Version: 4.12
Processing Host: TECHN0VA-01

Concentration Formula: Amt * DF * Uf*(Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.132	2.182	(0.259)	145320	50.0000	50.6(a)	
	2 N-Nitrosodimethylamine	42	2.546	2.617	(0.389)	230878	50.0000	51.2(a)	
	3 Pyridine	79	2.567	2.627	(0.392)	690756	50.0000	48.1(a)	
	4 Ethyl Methacrylate	69	3.312	3.362	(0.506)	561823	50.0000	50.1(a)	
	5 2-Picoline	93	3.799	3.828	(0.581)	904124	50.0000	51.7(a)	
	6 N-Nitrosomethylethylamine	88	4.026	4.066	(0.616)	370763	50.0000	56.0(a)	
	7 Methyl Methanesulfonate	80	4.533	4.573	(0.693)	393154	50.0000	47.6(a)	
$	8 2-Fluorophenol	112	4.813	4.821	(0.736)	760667	50.0000	50.0(a)	
	9 N-Nitrosodiethylamine	102	5.092	5.121	(0.778)	389944	50.0000	51.8(a)	
	10 Ethyl Methanesulfonate	79	5.568	5.597	(0.851)	532331	50.0000	50.4(a)	
	11 Benzaldehyde	77	5.941	5.949	(0.908)	143889	50.0000	56.4(a)	
$	12 Phenol-D6	99	6.179	6.187	(0.945)	794919	50.0000	51.9(a)	
	13 Aniline	93	6.117	6.136	(0.935)	988856	50.0000	49.8(a)	
	14 Phenol	94	6.189	6.208	(0.946)	903533	50.0000	53.2(a)	
	15 Pentachloroethane	117	6.148	6.156	(0.940)	312751	50.0000	50.6(a)	
	16 Bis(2-Chloroethyl)ether	93	6.241	6.260	(0.954)	633960	50.0000	49.4(a)	
	17 2-Chlorophenol	128	6.283	6.291	(0.960)	837665	50.0000	50.7(a)	
	18 1,3-Dichlorobenzene	146	6.459	6.467	(0.987)	960415	50.0000	51.7(a)	
*	19 1,4-Dichlorobenzene-D4	152	6.541	6.550	(1.000)	554640	40.0000		
	20 1,4-Dichlorobenzene	146	6.562	6.570	(1.003)	910001	50.0000	51.4(a)	
	21 Benzyl alcohol	108	6.790	6.819	(1.038)	516015	50.0000	50.0(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1637.D
Report Date: 17-Nov-2023 10:36

							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	22 1,2-Dichlorobenzene	146	6.759	6.767	(1.033)	926440	50.0000	51.5(a)	
	23 Bis(2-Chloroisopropyl)ether	45	6.955	6.974	(1.063)	590261	50.0000	50.4(a)	
	24 2,2'-Oxybis(1-chloropropane)	45	6.955	6.974	(1.063)	590261	50.0000	50.4(a)	
	25 2-Methylphenol	108	7.017	7.046	(1.073)	704996	50.0000	48.8(a)	
	26 Acetophenone	105	7.111	7.140	(0.863)	994945	50.0000	49.7(a)	
	27 N-Nitrosopyrrolidine	100	7.111	7.191	(1.087)	361574	50.0000	49.7(a)	
	28 N-Nitrosomorpholine	56	7.173	7.222	(1.097)	252505	50.0000	51.0(a)	
	29 N-Nitroso-di-n-propylamine	70	7.162	7.202	(1.095)	378200	50.0000	47.2(a)	
	30 3&4-Methylphenol	108	7.214	7.243	(1.103)	705745	50.0000	50.8(a)	
	31 o-Toluidine	106	7.162	7.181	(1.095)	987928	50.0000	48.9(a)	
	32 Hexachloroethane	117	7.193	7.212	(1.100)	362999	50.0000	52.6(a)	
$	33 Nitrobenzene-D5	82	7.297	7.326	(0.886)	650895	50.0000	49.9	
	34 Nitrobenzene	77	7.328	7.357	(0.889)	615561	50.0000	49.2(a)	
	35 N-Nitrosopiperidine	114	7.545	7.574	(0.916)	426551	50.0000	52.5(a)	
	36 Isophorone	82	7.669	7.698	(0.931)	1175762	50.0000	49.1(a)	
	37 2-Nitrophenol	139	7.752	7.771	(0.941)	504405	50.0000	51.4(a)	
	38 2,4-Dimethylphenol	107	7.897	7.916	(0.959)	565935	50.0000	50.6(a)	
	39 O,O,O-Triethylphosphorothioat	198	7.970	7.999	(0.967)	398484	50.0000	50.3(a)	
	40 Bis(2-Chloroethoxy)methane	93	8.001	8.019	(0.971)	987127	50.0000	55.6(a)	
	41 Benzoic acid	105	8.208	8.237	(0.996)	60346	50.0000	7.80(a)	
	42 2,4-Dichlorophenol	162	8.394	8.423	(1.019)	615947	50.0000	53.1(a)	
	43 1,2,4-Trichlorobenzene	180	8.177	8.195	(0.992)	749620	50.0000	51.9(a)	
*	44 Naphthalene-D8	136	8.239	8.257	(1.000)	1719249	40.0000		
	45 Naphthalene	128	8.270	8.288	(1.004)	1914061	50.0000	50.7(a)	
	46 alpha-Terpineol	59	8.342	8.371	(1.013)	380922	50.0000	49.7(a)	
	47 4-Chloroaniline	127	8.394	8.413	(1.019)	814701	50.0000	49.0(a)	
	48 2,6-Dichlorophenol	162	8.394	8.423	(1.019)	615947	50.0000	53.1(a)	
	49 Hexachloropropene	213	8.394	8.402	(1.019)	487340	50.0000	50.2(a)	
	50 Hexachlorobutadiene	225	8.466	8.475	(1.028)	428997	50.0000	51.4(a)	
	51 A,A-Dimethylphenethylamine	58	8.549	8.528	(1.038)	268144	50.0000	82.5(a)	
	52 N-Nitroso-Di-N-Butylamine	84	8.870	8.909	(1.077)	444815	50.0000	50.2(a)	
	53 p-Phenylenediamine	108	8.901	8.930	(1.080)	364089	50.0000	39.4(a)	
	54 Caprolactam	113	8.963	9.023	(1.088)	222517	50.0000	51.5(a)	
	55 4-Chloro-3-Methylphenol	107	9.119	9.147	(1.107)	526355	50.0000	43.9(a)	
	56 Isosafrole	162	9.129	9.147	(1.108)	599840	50.0000	47.2(a)	
	57 2-Methylnaphthalene	142	9.212	9.220	(1.118)	1418965	50.0000	52.3(a)	
	58 1-Methylnaphthalene	142	9.336	9.354	(1.133)	1309058	50.0000	50.3(a)	
	59 1,2,4,5-Tetrachlorobenzene	216	9.439	9.448	(0.891)	693499	50.0000	55.4(a)	
	60 Hexachlorocyclopentadiene	237	9.429	9.437	(0.890)	293012	50.0000	43.2(a)	
	61 2,4,6-Trichlorophenol	196	9.626	9.644	(0.908)	467239	50.0000	49.4(a)	
	62 2,4,5-Trichlorophenol	196	9.698	9.717	(0.915)	497949	50.0000	48.9(a)	
$	63 2-Fluorobiphenyl	172	9.729	9.748	(0.918)	1408954	50.0000	51.6	
	64 Safrole	104	9.833	9.851	(0.928)	248037	50.0000	52.6(a)	
	65 1,1'-Biphenyl	154	9.853	9.882	(0.930)	1381212	50.0000	51.4(a)	
	66 2-Chloronaphthalene	127	9.864	9.882	(0.931)	663079	50.0000	53.2(aH)	
	67 1-Chloronaphthalene	127	9.884	9.903	(0.933)	461330	50.0000	49.6(a)	
	68 Diphenylether	170	10.009	10.017	(0.944)	1025926	50.0000	54.3(a)	
	69 2-Nitroaniline	65	10.029	10.048	(0.946)	358652	50.0000	53.5(a)	
	70 1,4-Naphthoquinone	158	10.112	10.120	(0.954)	352346	50.0000	52.8(a)	
	71 1,4-Dinitrobenzene	168	10.236	10.265	(0.966)	266330	50.0000	51.5(a)	
	72 Dimethyl Phthalate	163	10.329	10.358	(0.975)	1521846	50.0000	51.1(a)	
	73 1,3-Dinitrobenzene	168	10.340	10.379	(0.976)	281643	50.0000	52.4(a)	
	74 2,6-Dinitrotoluene	165	10.381	10.410	(0.979)	373651	50.0000	51.5(a)	
	75 Acenaphthylene	152	10.402	10.421	(0.981)	2010416	50.0000	52.6(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1637.D
Report Date: 17-Nov-2023 10:36

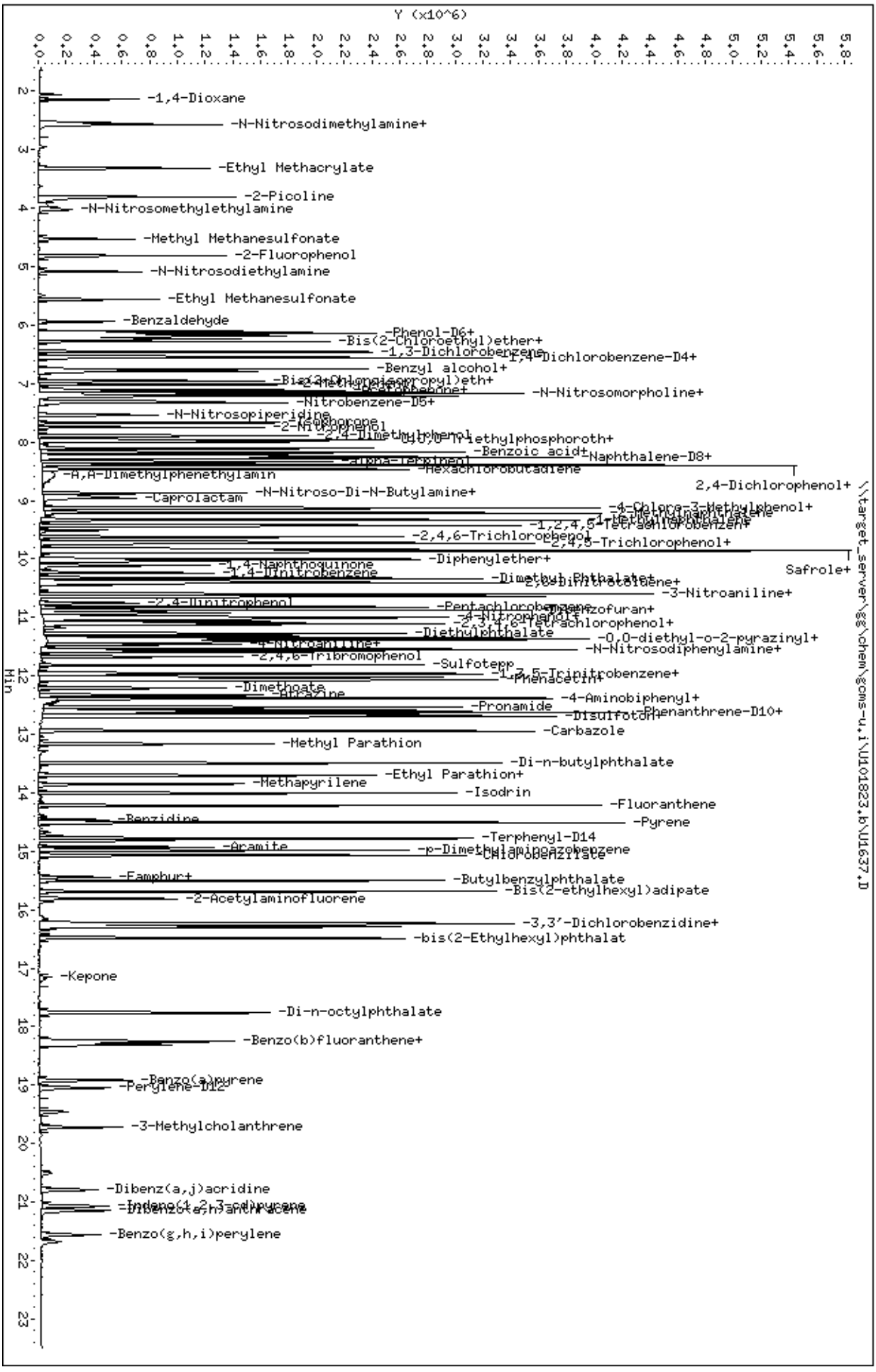
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	76 1,2-Dinitrobenzene	168	10.443	10.483	(0.985)	161370	50.0000	46.0(a)	
	77 3-Nitroaniline	138	10.609	10.648	(1.001)	428977	50.0000	51.1(a)	
*	78 Acenaphthene-D10	164	10.599	10.607	(1.000)	992282	40.0000		
	79 Acenaphthene	153	10.640	10.659	(1.004)	1275594	50.0000	56.1(a)	
	80 2,4-Dinitrophenol	184	10.754	10.793	(1.015)	242633	50.0000	46.4(a)	
	81 Pentachlorobenzene	250	10.826	10.845	(1.021)	594451	50.0000	52.4(a)	
	82 4-Nitrophenol	109	10.961	10.979	(1.034)	113400	50.0000	26.9(a)	
	83 Dibenzofuran	168	10.878	10.897	(1.026)	1774004	50.0000	52.0(a)	
	84 2,4-Dinitrotoluene	165	10.930	10.969	(1.031)	555145	50.0000	53.4(a)	
	85 1-Naphthylamine	143	11.002	11.021	(1.038)	1431267	50.0000	52.5(a)	
	86 2,3,5,6-Tetrachlorophenol	232	11.023	11.052	(1.040)	337487	50.0000	43.9(a)	
	87 2,3,4,6-Tetrachlorophenol	232	11.085	11.104	(1.046)	345858	50.0000	45.0(a)	
	88 2-Naphthylamine	143	11.116	11.145	(1.049)	1289227	50.0000	52.2(a)	
	89 Diethylphthalate	149	11.282	11.311	(1.064)	1560168	50.0000	51.7(a)	
	90 O,O-diethyl-o-2-pyrazinylphos	107	11.385	11.424	(1.074)	257950	50.0000	49.6(a)	
	91 Thionazin	107	11.385	11.424	(1.074)	257950	50.0000	49.6(a)	
	92 Fluorene	166	11.344	11.362	(1.070)	1505064	50.0000	53.0(a)	
	93 4-Chlorophenyl-phenylether	204	11.375	11.393	(1.073)	728526	50.0000	51.7(a)	
	94 5-Nitro-O-Toluidine	152	11.416	11.456	(1.077)	548007	50.0000	54.3(a)	
	95 4-Nitroaniline	138	11.437	11.507	(1.079)	454776	50.0000	52.5(a)	
	96 4,6-Dinitro-2-Methylphenol	198	11.468	11.518	(0.910)	293824	50.0000	48.4(a)	
	97 N-Nitrosodiphenylamine	169	11.551	11.580	(0.917)	1269627	50.0000	52.1(a)	
	98 1,2-Diphenylhydrazine	77	11.582	11.600	(0.919)	1167545	50.0000	50.8(a)	
	99 Azobenzene	77	11.582	11.600	(0.919)	1168710	50.0000	50.9(a)	
$	100 2,4,6-Tribromophenol	330	11.675	11.694	(1.102)	192673	50.0000	49.9	
	101 Sulfotepp	97	11.820	11.839	(0.938)	243386	50.0000	52.8(a)	
	102 1,3,5-Trinitrobenzene	213	11.996	12.066	(0.952)	168525	50.0000	51.8(a)	
	103 Diallate	86	11.954	11.973	(0.949)	364942	50.0000	51.7(a)	
	104 Phorate	75	11.965	11.983	(0.950)	745873	50.0000	45.6(aH)	
	105 Phenacetin	108	12.058	12.118	(0.957)	669074	50.0000	49.6(a)	
	106 4-Bromophenyl-phenylether	248	12.027	12.046	(0.955)	421843	50.0000	51.2(a)	
	107 Hexachlorobenzene	284	12.068	12.097	(0.958)	450775	50.0000	53.8(a)	
	108 Dimethoate	87	12.213	12.253	(0.970)	400681	50.0000	55.1(a)	
	109 Atrazine	200	12.337	12.356	(0.979)	346193	50.0000	59.9(a)	
	110 4-Aminobiphenyl	169	12.389	12.418	(0.984)	1271226	50.0000	50.7(a)	
	111 Pentachlorophenol	266	12.379	12.397	(0.983)	294317	50.0000	48.8(a)	
	112 Pentachloronitrobenzene	237	12.368	12.387	(0.982)	204259	50.0000	52.3(a)	
	113 Pronamide	173	12.534	12.563	(0.995)	741146	50.0000	52.1(a)	
*	114 Phenanthrene-D10	188	12.596	12.615	(1.000)	1713604	40.0000		
	115 Disulfoton	88	12.669	12.698	(1.006)	761822	50.0000	55.0(a)	
	116 Phenanthrene	178	12.627	12.656	(1.002)	1880825	50.0000	53.3(a)	
	117 Dinoseb	211	12.658	12.687	(1.005)	390053	50.0000	49.0(a)	
	118 Anthracene	178	12.700	12.729	(1.008)	1999860	50.0000	53.2(a)	
	119 Carbazole	167	12.948	12.967	(1.028)	2023633	50.0000	52.6(a)	
	120 Methyl Parathion	109	13.165	13.174	(1.045)	410108	50.0000	58.5(a)	
	121 Di-n-butylphthalate	149	13.497	13.515	(1.071)	2488324	50.0000	54.2(a)	
	122 Ethyl Parathion	291	13.714	13.733	(1.089)	164279	50.0000	55.1(a)	
	123 Parathion	291	13.714	13.733	(1.089)	164279	50.0000	55.1(a)	
	124 4-Nitroquinoline-1-Oxide	190	13.693	13.712	(1.087)	102265	50.0000	30.6(a)	
	125 Methapyrilene	97	13.849	13.877	(1.099)	567577	50.0000	57.7(a)	
	126 Isodrin	193	14.004	14.012	(1.112)	284853	50.0000	50.7(a)	
	127 Fluoranthene	202	14.221	14.240	(1.129)	2096871	50.0000	50.0(a)	
	128 Pyrene	202	14.511	14.530	(0.893)	2122611	50.0000	60.0(a)	
	129 Benzidine	184	14.459	14.467	(0.890)	276839	50.0000	28.7(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1637.D
Report Date: 17-Nov-2023 10:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
$	130 Terphenyl-D14	244	14.790	14.799	(0.910)	1629725	50.0000	62.8	
	131 Aramite	185	14.925	14.933	(0.918)	161366	50.0000	67.3(a)	
	132 p-Dimethylaminoazobenzene	225	14.987	15.006	(0.922)	460669	50.0000	58.3(a)	
	133 Chlorobenzilate	251	15.070	15.088	(0.927)	652113	50.0000	56.9(a)	
	135 3,3'-Dimethylbenzidine	212	15.442	15.451	(0.950)	256281	50.0000	38.5(a)	
	136 Butylbenzylphthalate	149	15.505	15.513	(0.954)	1170373	50.0000	61.3(a)	
	137 Bis(2-ethylhexyl)adipate	129	15.691	15.709	(0.966)	1047896	50.0000	61.4(a)	
	138 2-Acetylaminofluorene	181	15.815	15.834	(0.973)	349307	50.0000	35.5(a)	
	139 3,3'-Dichlorobenzidine	252	16.250	16.258	(1.000)	274274	50.0000	30.3(a)	
	140 Benzo(a)anthracene	228	16.229	16.248	(0.999)	1481132	50.0000	52.3(a)	
*	141 Chrysene-D12	240	16.250	16.268	(1.000)	913914	40.0000		
	142 Chrysene	228	16.291	16.310	(1.003)	1344308	50.0000	51.8(a)	
	143 bis(2-Ethylhexyl)phthalate	149	16.488	16.496	(1.015)	1646042	50.0000	64.4(a)	
	145 Di-n-octylphthalate	149	17.761	17.769	(0.933)	1990424	50.0000	78.4(a)	
	146 Benzo(b)fluoranthene	252	18.247	18.256	(0.958)	692774	50.0000	54.0(a)	
	148 7,12-Dimethylbenz(A)Anthracen	256	18.258	18.276	(0.959)	371020	50.0000	56.6(a)	
	149 Benzo(k)fluoranthene	252	18.309	18.328	(0.961)	682931	50.0000	55.1(aH)	
	150 Benzo(a)pyrene	252	18.920	18.928	(0.993)	522577	50.0000	52.8(a)	
*	151 Perylene-D12	264	19.044	19.053	(1.000)	348770	40.0000		
	152 3-Methylcholanthrene	268	19.727	19.736	(1.036)	258338	50.0000	58.0(a)	
	153 Dibenz(a,j)acridine	279	20.793	20.802	(1.092)	329910	50.0000	65.8(a)	
	154 Indeno(1,2,3-cd)pyrene	276	21.073	21.081	(1.107)	368050	50.0000	64.8(a)	
	155 Dibenzo(a,h)anthracene	278	21.145	21.164	(1.110)	362962	50.0000	64.6(a)	
	156 Benzo(g,h,i)perylene	276	21.570	21.578	(1.133)	369385	50.0000	65.4(a)	
M	157 Total PAHs	100				23357444	850.000	992	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101823,b\U1637.D
Date : 18-OCT-2023 20:36
Client ID:
Sample Info: WG344071-9
Volume Injected (uL): 1.0
Column phase: Rxi-5ViOms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101823,b\U1637.D
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-Ethyl Methacrylate
-2-Picoline
-N-Nitrosomethylethylamine
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Phenol-D6+
-Bis(2-Chloroethyl)ether+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-N-Nitrosomorpholine+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-Naphthalene-D8+
-Hexachlorobutadiene
-A,A-Dimethylphenethylamin
2,4-Dichlorophenol+
-Caprolactam
-N-Nitroso-Di-N-Butylamine+
-4-Chloro-3-Methylphenol+
-1,2,4,5-Tetrachlorobenzen+
-2,4,6-Trichlorophenol
2,4,5-Trichlorophenol+
-Diphenylether+
Safrole+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-3-Nitroaniline+
-2,4-Dinitrophenol
-Pentachlorobenzene
-4-Nitrophenol
-2,3,4,6-Tetrachlorophenol+
-Diethylphthalate
-O,O-diethyl-o-2-pyrazinyl+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-Sulfotepp
-1,3,5-Trinitrobenzene+
-Phenacetin+
-Dimethoate
-4-Aminobiphenyl+
-Pronamide
-Phenanthrene-D10+
-Disulfoton+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Famphur+
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-3,3'-Dichlorobenzidine+
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Benzo(g,h,i)perylene

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG344145-2
Analytical Date: 10/19/23 13:49
Lab File ID: U1642.D
Instrument ID: GCMS-U
Initial Calibration Date(s): 10/18/23 10:13 10/18/23 12:47
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Pyridine	1.03467	1.06946	1.06946	0.010	3.36188	20.000	Averaged	
1,4-Dichlorobenzene	50.00000	51.84349	1.32255	0.010	3.68699	20.010	Quadratic	
2-Methylphenol	1.04252	1.00097	1.00097	0.010	-3.98539	20.000	Averaged	
3&4-Methylphenol	1.00238	1.01607	1.01607	0.010	1.36584	20.000	Averaged	
Hexachloroethane	50.00000	52.21790	0.52066	0.010	4.43581	20.000	Quadratic	
Nitrobenzene	0.29107	0.28502	0.28502	0.010	-2.07787	20.000	Averaged	
Hexachlorobutadiene	50.00000	49.10930	0.19234	0.010	-1.78140	20.010	Quadratic	
2,4,6-Trichlorophenol	0.38153	0.38302	0.38302	0.010	0.38990	20.000	Averaged	
2,4,5-Trichlorophenol	0.41018	0.39663	0.39663	0.010	-3.30417	20.000	Averaged	
2,4-Dinitrotoluene	0.41939	0.42624	0.42624	0.010	1.63229	20.000	Averaged	
Hexachlorobenzene	50.00000	52.95678	0.20771	0.010	5.91357	20.000	Quadratic	
Pentachlorophenol	0.14080	0.12750	0.12750	0.010	-9.44644	20.000	Averaged	
2-Fluorophenol	1.09730	1.11556	1.11556	0.010	1.66394	20.000	Averaged	
Phenol-D6	1.10447	1.14144	1.14144	0.010	3.34702	20.000	Averaged	
Nitrobenzene-D5	0.30323	0.29982	0.29982	0.010	-1.12522	20.000	Averaged	
2-Fluorobiphenyl	50.00000	53.25066	1.16301	0.010	6.50132	20.000	Quadratic	
2,4,6-Tribromophenol	0.15570	0.14855	0.14855	0.010	-4.59273	20.000	Averaged	
Terphenyl-D14	1.13598	1.17411	1.17411	0.010	3.35630	20.000	Averaged	

*** = Compound out of QC criteria**

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Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1642.D
Report Date: 17-Nov-2023 10:36

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101923.b\U1642.D
Lab Smp Id: WG344145-2
Inj Date : 19-OCT-2023 13:49
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344145-2
Misc Info : WG344145,WG344145,WG344071-4,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101923.b\U8270C20.m
Meth Date : 20-Oct-2023 07:36 dtasker   Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47   Cal File: U1622.D
Als bottle: 2   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all_DOD5.sub
Target Version: 4.12
Processing Host: TECHN0VA-01

Concentration Formula: Amt * DF * Uf*(Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.142	2.182	(0.260)	135794	50.0000	50.3(a)	
	2 N-Nitrosodimethylamine	42	2.545	2.617	(0.389)	214235	50.0000	51.3(a)	
	3 Pyridine	79	2.566	2.627	(0.392)	687017	50.0000	51.7(a)	
	4 Ethyl Methacrylate	69	3.322	3.362	(0.508)	539581	50.0000	52.0(a)	
	5 2-Picoline	93	3.798	3.828	(0.581)	812329	50.0000	50.1(a)	
	6 N-Nitrosomethylethylamine	88	4.036	4.066	(0.617)	307109	50.0000	50.1(a)	
	7 Methyl Methanesulfonate	80	4.533	4.573	(0.693)	359187	50.0000	47.0(a)	
$	8 2-Fluorophenol	112	4.812	4.822	(0.736)	716632	50.0000	50.8(a)	
	9 N-Nitrosodiethylamine	102	5.092	5.122	(0.778)	359335	50.0000	51.5(a)	
	10 Ethyl Methanesulfonate	79	5.568	5.598	(0.851)	482961	50.0000	49.4(a)	
	11 Benzaldehyde	77	5.951	5.950	(0.910)	112006	50.0000	43.7(a)	
$	12 Phenol-D6	99	6.178	6.188	(0.945)	733258	50.0000	51.7(a)	
	13 Aniline	93	6.116	6.136	(0.935)	926140	50.0000	50.4(a)	
	14 Phenol	94	6.189	6.209	(0.946)	840709	50.0000	53.5(a)	
	15 Pentachloroethane	117	6.147	6.157	(0.940)	296982	50.0000	51.8(a)	
	16 Bis(2-Chloroethyl)ether	93	6.240	6.260	(0.954)	587226	50.0000	49.4(a)	
	17 2-Chlorophenol	128	6.282	6.291	(0.960)	783245	50.0000	51.2(a)	
	18 1,3-Dichlorobenzene	146	6.458	6.467	(0.987)	887003	50.0000	51.5(a)	
*	19 1,4-Dichlorobenzene-D4	152	6.541	6.550	(1.000)	513919	40.0000		
	20 1,4-Dichlorobenzene	146	6.561	6.571	(1.003)	849603	50.0000	51.8(a)	
	21 Benzyl alcohol	108	6.789	6.819	(1.038)	464759	50.0000	48.6(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1642.D
Report Date: 17-Nov-2023 10:36

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	22	1,2-Dichlorobenzene	146	6.758	6.767	(1.033)	858713	50.0000	51.5(a)	
	23	Bis(2-Chloroisopropyl)ether	45	6.955	6.974	(1.063)	567168	50.0000	52.3(a)	
	24	2,2'-Oxybis(1-chloropropane)	45	6.955	6.974	(1.063)	567168	50.0000	52.3(a)	
	25	2-Methylphenol	108	7.006	7.047	(1.071)	643022	50.0000	48.0(a)	
	26	Acetophenone	105	7.120	7.140	(0.863)	924396	50.0000	49.2(a)	
	27	N-Nitrosopyrrolidine	100	7.110	7.192	(1.087)	338446	50.0000	50.4(a)	
	28	N-Nitrosomorpholine	56	7.172	7.223	(1.097)	235165	50.0000	51.3(a)	
	29	N-Nitroso-di-n-propylamine	70	7.162	7.202	(1.095)	346571	50.0000	46.6(a)	
	30	3&4-Methylphenol	108	7.213	7.244	(1.103)	652725	50.0000	50.7(a)	
	31	o-Toluidine	106	7.162	7.181	(1.095)	934433	50.0000	49.9(a)	
	32	Hexachloroethane	117	7.203	7.212	(1.101)	334474	50.0000	52.2(a)	
$	33	Nitrobenzene-D5	82	7.306	7.326	(0.886)	604762	50.0000	49.4	
	34	Nitrobenzene	77	7.327	7.357	(0.888)	574923	50.0000	49.0(a)	
	35	N-Nitrosopiperidine	114	7.545	7.575	(0.915)	387893	50.0000	50.9(a)	
	36	Isophorone	82	7.669	7.699	(0.930)	1103561	50.0000	49.1(a)	
	37	2-Nitrophenol	139	7.752	7.771	(0.940)	446322	50.0000	48.4(a)	
	38	2,4-Dimethylphenol	107	7.896	7.916	(0.957)	535575	50.0000	51.0(a)	
	39	O,O,O-Triethylphosphorothioat	198	7.979	7.999	(0.967)	369085	50.0000	49.7(a)	
	40	Bis(2-Chloroethoxy)methane	93	8.000	8.020	(0.970)	897932	50.0000	53.9(a)	
	41	Benzoic acid	105	8.279	8.237	(1.004)	49088	50.0000	6.76(a)	
	42	2,4-Dichlorophenol	162	8.404	8.423	(1.019)	593784	50.0000	54.6(a)	
	43	1,2,4-Trichlorobenzene	180	8.186	8.196	(0.992)	705746	50.0000	52.1(a)	
*	44	Naphthalene-D8	136	8.248	8.257	(1.000)	1613689	40.0000		
	45	Naphthalene	128	8.269	8.289	(1.002)	1867630	50.0000	53.4(a)	
	46	alpha-Terpineol	59	8.342	8.372	(1.011)	361681	50.0000	50.3(a)	
	47	4-Chloroaniline	127	8.393	8.413	(1.018)	742068	50.0000	47.0(a)	
	48	2,6-Dichlorophenol	162	8.404	8.423	(1.019)	593784	50.0000	54.6(a)	
	49	Hexachloropropene	213	8.393	8.403	(1.018)	448435	50.0000	49.0(a)	
	50	Hexachlorobutadiene	225	8.466	8.475	(1.026)	387980	50.0000	49.1(a)	
	51	A,A-Dimethylphenethylamine	58	8.528	8.528	(1.034)	556052	50.0000	182(aA)	
	52	N-Nitroso-Di-N-Butylamine	84	8.880	8.910	(1.077)	406761	50.0000	48.8(a)	
	53	p-Phenylenediamine	108	8.890	8.931	(1.078)	449785	50.0000	51.8(a)	
	54	Caprolactam	113	8.952	9.024	(1.085)	202334	50.0000	49.9(a)	
	55	4-Chloro-3-Methylphenol	107	9.118	9.148	(1.105)	511859	50.0000	46.0(a)	
	56	Isosafrole	162	9.128	9.148	(1.107)	585974	50.0000	49.1(a)	
	57	2-Methylnaphthalene	142	9.211	9.220	(1.117)	1307986	50.0000	51.2(a)	
	58	1-Methylnaphthalene	142	9.335	9.355	(1.132)	1245675	50.0000	51.2(a)	
	59	1,2,4,5-Tetrachlorobenzene	216	9.439	9.448	(0.891)	621637	50.0000	51.7(a)	
	60	Hexachlorocyclopentadiene	237	9.428	9.438	(0.890)	288170	50.0000	45.0(a)	
	61	2,4,6-Trichlorophenol	196	9.625	9.645	(0.908)	451601	50.0000	50.2(a)	
	62	2,4,5-Trichlorophenol	196	9.708	9.717	(0.916)	467647	50.0000	48.3(a)	
$	63	2-Fluorobiphenyl	172	9.728	9.748	(0.918)	1371249	50.0000	53.2	
	64	Safrole	104	9.832	9.852	(0.928)	232417	50.0000	51.9(a)	
	65	1,1'-Biphenyl	154	9.863	9.883	(0.931)	1379472	50.0000	54.0(a)	
	66	2-Chloronaphthalene	127	9.863	9.883	(0.931)	550622	50.0000	46.5(aH)	
	67	1-Chloronaphthalene	127	9.884	9.904	(0.933)	454907	50.0000	51.4(a)	
	68	Diphenylether	170	10.008	10.017	(0.944)	923330	50.0000	50.6(a)	
	69	2-Nitroaniline	65	10.039	10.048	(0.947)	344981	50.0000	54.1(a)	
	70	1,4-Naphthoquinone	158	10.111	10.121	(0.954)	305834	50.0000	48.2(a)	
	71	1,4-Dinitrobenzene	168	10.236	10.266	(0.966)	241516	50.0000	49.1(a)	
	72	Dimethyl Phthalate	163	10.329	10.359	(0.975)	1399724	50.0000	49.5(a)	
	73	1,3-Dinitrobenzene	168	10.339	10.380	(0.976)	255570	50.0000	50.1(a)	
	74	2,6-Dinitrotoluene	165	10.380	10.411	(0.979)	361258	50.0000	52.4(a)	
	75	Acenaphthylene	152	10.412	10.421	(0.982)	1924240	50.0000	53.0(a)	

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Report Date: 17-Nov-2023 10:36

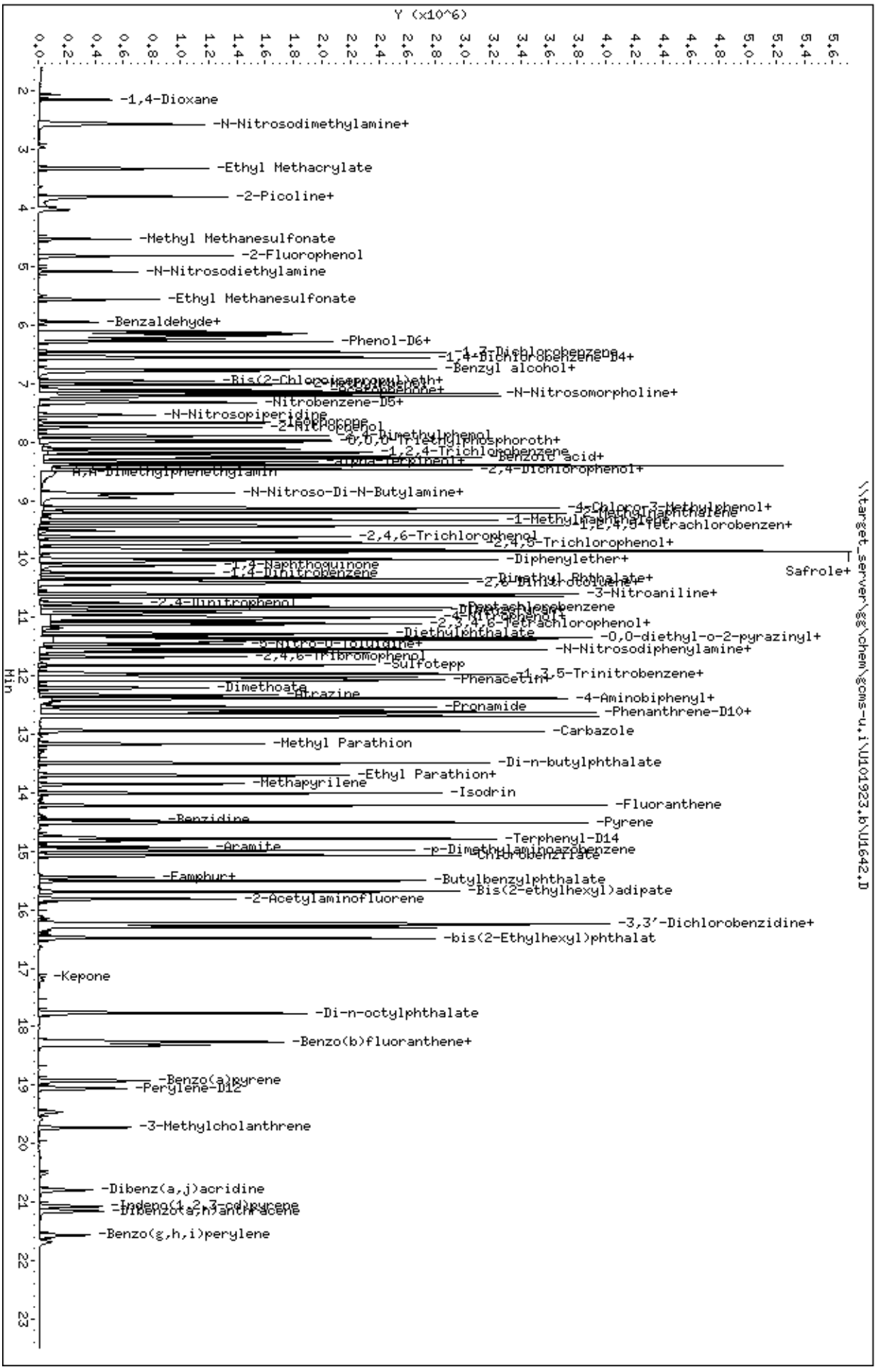
		QUANT SIG					AMOUNTS CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)	REVIEW CODE
	76 1,2-Dinitrobenzene	168	10.443	10.483	(0.985)	155836	50.0000	46.7(a)	
	77 3-Nitroaniline	138	10.598	10.649	(1.000)	385932	50.0000	48.4(a)	
*	78 Acenaphthene-D10	164	10.598	10.607	(1.000)	943240	40.0000		
	79 Acenaphthene	153	10.650	10.659	(1.005)	1167509	50.0000	53.5(a)	
	80 2,4-Dinitrophenol	184	10.753	10.794	(1.015)	230387	50.0000	46.4(a)	
	81 Pentachlorobenzene	250	10.826	10.845	(1.021)	535152	50.0000	49.6(a)	
	82 4-Nitrophenol	109	10.960	10.980	(1.034)	106036	50.0000	26.3(a)	
	83 Dibenzofuran	168	10.877	10.897	(1.026)	1739967	50.0000	54.4(a)	
	84 2,4-Dinitrotoluene	165	10.929	10.970	(1.031)	502554	50.0000	50.8(a)	
	85 1-Naphthylamine	143	11.001	11.021	(1.038)	1314467	50.0000	50.8(a)	
	86 2,3,5,6-Tetrachlorophenol	232	11.022	11.052	(1.040)	331155	50.0000	45.4(a)	
	87 2,3,4,6-Tetrachlorophenol	232	11.084	11.104	(1.046)	330806	50.0000	45.3(a)	
	88 2-Naphthylamine	143	11.115	11.146	(1.049)	1224793	50.0000	52.2(a)	
	89 Diethylphthalate	149	11.281	11.311	(1.064)	1456901	50.0000	50.8(a)	
	90 O,O-diethyl-o-2-pyrazinylphos	107	11.384	11.425	(1.074)	251122	50.0000	50.8(a)	
	91 Thionazin	107	11.384	11.425	(1.074)	251122	50.0000	50.8(a)	
	92 Fluorene	166	11.343	11.363	(1.070)	1370442	50.0000	50.8(a)	
	93 4-Chlorophenyl-phenylether	204	11.374	11.394	(1.073)	656676	50.0000	49.0(a)	
	94 5-Nitro-O-Toluidine	152	11.415	11.456	(1.077)	505205	50.0000	52.6(a)	
	95 4-Nitroaniline	138	11.436	11.508	(1.079)	400436	50.0000	48.7(a)	
	96 4,6-Dinitro-2-Methylphenol	198	11.467	11.518	(0.910)	277056	50.0000	47.5(a)	
	97 N-Nitrosodiphenylamine	169	11.550	11.580	(0.917)	1194705	50.0000	50.7(a)	
	98 1,2-Diphenylhydrazine	77	11.591	11.601	(0.920)	1126765	50.0000	51.1(a)	
	99 Azobenzene	77	11.591	11.601	(0.920)	1126765	50.0000	51.1(a)	
$	100 2,4,6-Tribromophenol	330	11.674	11.694	(1.102)	175150	50.0000	47.7	
	101 Sulfotepp	97	11.819	11.839	(0.938)	225316	50.0000	50.6(a)	
	102 1,3,5-Trinitrobenzene	213	12.005	12.067	(0.953)	166228	50.0000	53.2(a)	
	103 Diallate	86	11.954	11.974	(0.949)	348382	50.0000	51.4(a)	
	104 Phorate	75	11.964	11.984	(0.950)	766700	50.0000	48.8(aH)	
	105 Phenacetin	108	12.057	12.118	(0.957)	679434	50.0000	52.4(a)	
	106 4-Bromophenyl-phenylether	248	12.026	12.046	(0.955)	398628	50.0000	50.2(a)	
	107 Hexachlorobenzene	284	12.078	12.098	(0.959)	427020	50.0000	53.0(a)	
	108 Dimethoate	87	12.212	12.253	(0.970)	373920	50.0000	53.6(a)	
	109 Atrazine	200	12.326	12.357	(0.979)	314370	50.0000	56.7(aH)	
	110 4-Aminobiphenyl	169	12.388	12.419	(0.984)	1257003	50.0000	52.2(a)	
	111 Pentachlorophenol	266	12.378	12.398	(0.983)	262122	50.0000	45.3(a)	
	112 Pentachloronitrobenzene	237	12.378	12.388	(0.983)	188724	50.0000	50.4(a)	
	113 Pronamide	173	12.533	12.564	(0.995)	703078	50.0000	51.4(a)	
*	114 Phenanthrene-D10	188	12.595	12.615	(1.000)	1644642	40.0000		
	115 Disulfoton	88	12.668	12.698	(1.006)	723023	50.0000	54.3(a)	
	116 Phenanthrene	178	12.626	12.657	(1.002)	1767913	50.0000	51.9(a)	
	117 Dinoseb	211	12.658	12.688	(1.005)	380169	50.0000	49.8(a)	
	118 Anthracene	178	12.699	12.729	(1.008)	1859751	50.0000	51.0(a)	
	119 Carbazole	167	12.947	12.967	(1.028)	1870381	50.0000	49.6(a)	
	120 Methyl Parathion	109	13.165	13.174	(1.045)	358551	50.0000	53.3(a)	
	121 Di-n-butylphthalate	149	13.496	13.516	(1.071)	2342493	50.0000	52.6(a)	
	122 Ethyl Parathion	291	13.713	13.733	(1.089)	148660	50.0000	52.0(a)	
	123 Parathion	291	13.713	13.733	(1.089)	148660	50.0000	52.0(a)	
	124 4-Nitroquinoline-1-Oxide	190	13.693	13.712	(1.087)	122730	50.0000	38.2(a)	
	125 Methapyrilene	97	13.848	13.878	(1.099)	533866	50.0000	56.5(a)	
	126 Isodrin	193	14.003	14.013	(1.112)	265791	50.0000	48.9(a)	
	127 Fluoranthene	202	14.220	14.240	(1.129)	1962926	50.0000	48.1(a)	
	128 Pyrene	202	14.510	14.530	(0.892)	2057932	50.0000	51.7(a)	
	129 Benzidine	184	14.458	14.468	(0.889)	445351	50.0000	41.1(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1642.D
Report Date: 17-Nov-2023 10:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
$	130 Terphenyl-D14	244	14.790	14.799	(0.910)	1509578	50.0000	51.7	
	131 Aramite	185	14.924	14.934	(0.918)	150904	50.0000	55.9(a)	
	132 p-Dimethylaminoazobenzene	225	14.986	15.006	(0.922)	445198	50.0000	50.1(a)	
	133 Chlorobenzilate	251	15.069	15.089	(0.927)	646902	50.0000	50.2(a)	
	135 3,3'-Dimethylbenzidine	212	15.442	15.451	(0.950)	370599	50.0000	49.5(a)	
	136 Butylbenzylphthalate	149	15.504	15.513	(0.954)	1188730	50.0000	55.3(a)	
	137 Bis(2-ethylhexyl)adipate	129	15.690	15.710	(0.965)	992421	50.0000	51.7(a)	
	138 2-Acetylaminofluorene	181	15.814	15.834	(0.973)	473830	50.0000	42.7(a)	
	139 3,3'-Dichlorobenzidine	252	16.249	16.259	(0.999)	376464	50.0000	40.7(a)	
	140 Benzo(a)anthracene	228	16.239	16.248	(0.999)	1610667	50.0000	50.5(a)	
*	141 Chrysene-D12	240	16.259	16.268	(1.000)	1028580	40.0000		
	142 Chrysene	228	16.301	16.309	(1.003)	1461566	50.0000	50.1(a)	
	143 bis(2-Ethylhexyl)phthalate	149	16.487	16.497	(1.014)	1638012	50.0000	57.0(a)	
	145 Di-n-octylphthalate	149	17.770	17.770	(0.933)	2280158	50.0000	70.9(a)	
	146 Benzo(b)fluoranthene	252	18.257	18.256	(0.958)	879575	50.0000	54.1(a)	
	148 7,12-Dimethylbenz(A)Anthracen	256	18.267	18.277	(0.959)	469184	50.0000	56.4(a)	
	149 Benzo(k)fluoranthene	252	18.319	18.329	(0.961)	858548	50.0000	54.6(aH)	
	150 Benzo(a)pyrene	252	18.930	18.929	(0.993)	645370	50.0000	51.4(a)	
*	151 Perylene-D12	264	19.054	19.053	(1.000)	442103	40.0000		
	152 3-Methylcholanthrene	268	19.737	19.736	(1.036)	307339	50.0000	54.4(a)	
	153 Dibenz(a,j)acridine	279	20.793	20.802	(1.091)	321716	50.0000	52.6(a)	
	154 Indeno(1,2,3-cd)pyrene	276	21.072	21.082	(1.106)	362272	50.0000	52.2(a)	
	155 Dibenzo(a,h)anthracene	278	21.155	21.164	(1.110)	363017	50.0000	52.7(a)	
	156 Benzo(g,h,i)perylene	276	21.569	21.578	(1.132)	350765	50.0000	51.2(a)	
M	157 Total PAHs	100				23063784	850.000	933	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101923,b\U1642.D
Date : 19-OCT-2023 13:49
Client ID:
Sample Info: WG344145-2
Volume Injected (uL): 1.0
Column phase: Rxi-5ViOms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101923,b\U1642.D
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde+
-Phenol-D6+
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-N-Nitrosomorpholine+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-2-Nitrophenol
-2,4-Dimethylphenol
-1,2,4-Trichlorobenzene
-Benzoic acid+
-2,4-Dichlorophenol+
-N-Nitroso-Di-N-Butylamine+
-4-Chloro-3-Methylphenol+
-1-Methylnaphthalene
-2,4,6-Trichlorophenol
-2,4,5-Trichlorophenol+
-Diphenylether+
Safrole+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-3-Nitroaniline+
-2,4-Dinitrophenol
-Pentachlorobenzene
-4-Nitrophenol+
-2,3,4,6-Tetrachlorophenol+
-Diethylphthalate
-O,O-diethyl-o-2-pyrazinyl+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-Sulfotepp
-1,3,5-Trinitrobenzene+
-Phenacetin+
-Dimethoate
-Azobenzene
-4-Aminobiphenyl+
-Pronamide
-Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Camphur+
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-3,3'-Dichlorobenzidine+
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene
-Dibenz(a,h)anthracene
-Benzo(g,h,i)perylene

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG344145-3
Analytical Date: 10/19/23 23:49
Lab File ID: U1661.D
Instrument ID: GCMS-U
Initial Calibration Date(s): 10/18/23 10:13 10/18/23 12:47
Column ID:

Compound	$\overline{RRF}$/Amount	RF50	CCAL RRF50	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Pyridine	1.03467	1.06087	1.06087	0.010	2.53191	20.000	Averaged	
1,4-Dichlorobenzene	50.00000	52.71879	1.34143	0.010	5.43759	20.010	Quadratic	
2-Methylphenol	1.04252	0.98897	0.98897	0.010	-5.13637	20.000	Averaged	
3&4-Methylphenol	1.00238	1.01939	1.01939	0.010	1.69696	20.000	Averaged	
Hexachloroethane	50.00000	51.80609	0.51747	0.010	3.61217	20.000	Quadratic	
Nitrobenzene	0.29107	0.29765	0.29765	0.010	2.26015	20.000	Averaged	
Hexachlorobutadiene	50.00000	48.97891	0.19192	0.010	-2.04218	20.010	Quadratic	
2,4,6-Trichlorophenol	0.38153	0.37965	0.37965	0.010	-0.49332	20.000	Averaged	
2,4,5-Trichlorophenol	0.41018	0.40133	0.40133	0.010	-2.15801	20.000	Averaged	
2,4-Dinitrotoluene	0.41939	0.43598	0.43598	0.010	3.95560	20.000	Averaged	
Hexachlorobenzene	50.00000	51.87868	0.20403	0.010	3.75736	20.000	Quadratic	
Pentachlorophenol	0.14080	0.12657	0.12657	0.010	-10.11216	20.000	Averaged	
2-Fluorophenol	1.09730	1.12204	1.12204	0.010	2.25526	20.000	Averaged	
Phenol-D6	1.10447	1.12719	1.12719	0.010	2.05749	20.000	Averaged	
Nitrobenzene-D5	0.30323	0.30242	0.30242	0.010	-0.26759	20.000	Averaged	
2-Fluorobiphenyl	50.00000	50.79273	1.12175	0.010	1.58547	20.000	Quadratic	
2,4,6-Tribromophenol	0.15570	0.15286	0.15286	0.010	-1.82612	20.000	Averaged	
Terphenyl-D14	1.13598	1.19746	1.19746	0.010	5.41211	20.000	Averaged	

*** = Compound out of QC criteria**

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http://katahdinlab.com
sales@katahdinlab.com

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1661.D
Report Date: 17-Nov-2023 10:36

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101923.b\U1661.D
Lab Smp Id: WG344145-3
Inj Date : 19-OCT-2023 23:49
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344145-3
Misc Info : WG344145,WG344145,WG344071-4,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101923.b\U8270C20.m
Meth Date : 20-Oct-2023 07:36 dtasker   Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47   Cal File: U1622.D
Als bottle: 2   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all_DOD5.sub
Target Version: 4.12
Processing Host: TECHN0VA-01

Concentration Formula: Amt * DF * Uf*(Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS		
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.132	2.182	(0.259)	145015	50.0000	52.4(a)	
	2 N-Nitrosodimethylamine	42	2.535	2.617	(0.388)	213743	50.0000	49.6(a)	
	3 Pyridine	79	2.556	2.627	(0.391)	704081	50.0000	51.3(a)	
	4 Ethyl Methacrylate	69	3.312	3.362	(0.506)	551524	50.0000	51.4(a)	
	5 2-Picoline	93	3.777	3.828	(0.578)	874636	50.0000	52.2(a)	
	6 N-Nitrosomethylethylamine	88	4.026	4.066	(0.616)	317426	50.0000	50.1(a)	
	7 Methyl Methanesulfonate	80	4.523	4.573	(0.691)	387553	50.0000	49.0(a)	
$	8 2-Fluorophenol	112	4.802	4.822	(0.734)	744683	50.0000	51.1(a)	
	9 N-Nitrosodiethylamine	102	5.081	5.122	(0.777)	361431	50.0000	50.1(a)	
	10 Ethyl Methanesulfonate	79	5.558	5.598	(0.850)	501106	50.0000	49.6(a)	
	11 Benzaldehyde	77	5.941	5.950	(0.908)	118337	50.0000	45.1(a)	
$	12 Phenol-D6	99	6.168	6.188	(0.943)	748101	50.0000	51.0(a)	
	13 Aniline	93	6.116	6.136	(0.935)	991652	50.0000	52.2(a)	
	14 Phenol	94	6.189	6.209	(0.946)	866654	50.0000	53.3(a)	
	15 Pentachloroethane	117	6.148	6.157	(0.940)	303683	50.0000	51.3(a)	
	16 Bis(2-Chloroethyl)ether	93	6.241	6.260	(0.954)	632194	50.0000	51.5(a)	
	17 2-Chlorophenol	128	6.282	6.291	(0.960)	813374	50.0000	51.4(a)	
	18 1,3-Dichlorobenzene	146	6.448	6.467	(0.986)	925190	50.0000	52.1(a)	
*	19 1,4-Dichlorobenzene-D4	152	6.541	6.550	(1.000)	530947	40.0000		
	20 1,4-Dichlorobenzene	146	6.562	6.571	(1.003)	890286	50.0000	52.7(a)	
	21 Benzyl alcohol	108	6.789	6.819	(1.038)	443990	50.0000	44.9(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1661.D
Report Date: 17-Nov-2023 10:36

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	22	1,2-Dichlorobenzene	146	6.748	6.767	(1.032)	890320	50.0000	51.8(a)	
	23	Bis(2-Chloroisopropyl)ether	45	6.955	6.974	(1.063)	571488	50.0000	51.0(a)	
	24	2,2'-Oxybis(1-chloropropane)	45	6.955	6.974	(1.063)	571488	50.0000	51.0(a)	
	25	2-Methylphenol	108	7.007	7.047	(1.071)	656364	50.0000	47.4(a)	
	26	Acetophenone	105	7.110	7.140	(0.863)	926066	50.0000	48.0(a)	
	27	N-Nitrosopyrrolidine	100	7.100	7.192	(1.085)	350819	50.0000	50.6(a)	
	28	N-Nitrosomorpholine	56	7.162	7.223	(1.095)	238090	50.0000	50.2(a)	
	29	N-Nitroso-di-n-propylamine	70	7.162	7.202	(1.095)	377521	50.0000	49.7(a)	
	30	3&4-Methylphenol	108	7.214	7.244	(1.103)	676555	50.0000	50.8(a)	
	31	o-Toluidine	106	7.162	7.181	(1.095)	924646	50.0000	47.8(a)	
	32	Hexachloroethane	117	7.193	7.212	(1.100)	343435	50.0000	51.8(a)	
$	33	Nitrobenzene-D5	82	7.296	7.326	(0.886)	625542	50.0000	49.9	
	34	Nitrobenzene	77	7.327	7.357	(0.889)	615682	50.0000	51.1(a)	
	35	N-Nitrosopiperidine	114	7.534	7.575	(0.915)	376088	50.0000	48.1(a)	
	36	Isophorone	82	7.669	7.699	(0.931)	1080710	50.0000	46.9(a)	
	37	2-Nitrophenol	139	7.752	7.771	(0.941)	483657	50.0000	51.2(a)	
	38	2,4-Dimethylphenol	107	7.886	7.916	(0.957)	529004	50.0000	49.2(a)	
	39	O,O,O-Triethylphosphorothioat	198	7.969	7.999	(0.967)	353935	50.0000	46.4(a)	
	40	Bis(2-Chloroethoxy)methane	93	8.000	8.020	(0.971)	919411	50.0000	53.8(a)	
	41	Benzoic acid	105	8.269	8.237	(1.004)	48085	50.0000	6.46(a)	
	42	2,4-Dichlorophenol	162	8.393	8.423	(1.019)	545035	50.0000	48.8(a)	
	43	1,2,4-Trichlorobenzene	180	8.176	8.196	(0.992)	699883	50.0000	50.1(a)	
*	44	Naphthalene-D8	136	8.238	8.257	(1.000)	1654783	40.0000		
	45	Naphthalene	128	8.269	8.289	(1.004)	1829248	50.0000	50.2(a)	
	46	alpha-Terpineol	59	8.342	8.372	(1.013)	371898	50.0000	50.4(a)	
	47	4-Chloroaniline	127	8.393	8.413	(1.019)	795679	50.0000	50.0(a)	
	48	2,6-Dichlorophenol	162	8.393	8.423	(1.019)	545035	50.0000	48.8(a)	
	49	Hexachloropropene	213	8.393	8.403	(1.019)	461291	50.0000	49.2(a)	
	50	Hexachlorobutadiene	225	8.466	8.475	(1.028)	396979	50.0000	49.0(a)	
	51	A,A-Dimethylphenethylamine	58	8.528	8.528	(1.035)	493526	50.0000	158(aA)	
	52	N-Nitroso-Di-N-Butylamine	84	8.870	8.910	(1.077)	399378	50.0000	46.6(aH)	
	53	p-Phenylenediamine	108	8.890	8.931	(1.079)	427452	50.0000	48.0(a)	
	54	Caprolactam	113	8.942	9.024	(1.085)	206573	50.0000	49.7(a)	
	55	4-Chloro-3-Methylphenol	107	9.118	9.148	(1.107)	518505	50.0000	45.3(a)	
	56	Isosafrole	162	9.128	9.148	(1.108)	573553	50.0000	46.9(a)	
	57	2-Methylnaphthalene	142	9.211	9.220	(1.118)	1352634	50.0000	51.7(a)	
	58	1-Methylnaphthalene	142	9.335	9.355	(1.133)	1242930	50.0000	49.5(a)	
	59	1,2,4,5-Tetrachlorobenzene	216	9.439	9.448	(0.891)	656945	50.0000	55.4(a)	
	60	Hexachlorocyclopentadiene	237	9.428	9.438	(0.890)	289493	50.0000	45.5(a)	
	61	2,4,6-Trichlorophenol	196	9.625	9.645	(0.908)	445872	50.0000	49.8(a)	
	62	2,4,5-Trichlorophenol	196	9.708	9.717	(0.916)	471334	50.0000	48.9(a)	
$	63	2-Fluorobiphenyl	172	9.729	9.748	(0.918)	1317414	50.0000	50.8	
	64	Safrole	104	9.832	9.852	(0.928)	232362	50.0000	52.1(a)	
	65	1,1'-Biphenyl	154	9.853	9.883	(0.930)	1322897	50.0000	52.0(a)	
	66	2-Chloronaphthalene	127	9.863	9.883	(0.931)	629868	50.0000	53.4(aH)	
	67	1-Chloronaphthalene	127	9.884	9.904	(0.933)	437880	50.0000	49.7(a)	
	68	Diphenylether	170	10.008	10.017	(0.944)	946713	50.0000	52.5(a)	
	69	2-Nitroaniline	65	10.029	10.048	(0.946)	329028	50.0000	51.8(a)	
	70	1,4-Naphthoquinone	158	10.112	10.121	(0.954)	379657	50.0000	60.0(a)	
	71	1,4-Dinitrobenzene	168	10.236	10.266	(0.966)	251857	50.0000	51.4(a)	
	72	Dimethyl Phthalate	163	10.329	10.359	(0.975)	1476320	50.0000	52.4(a)	
	73	1,3-Dinitrobenzene	168	10.339	10.380	(0.976)	258262	50.0000	50.8(a)	
	74	2,6-Dinitrotoluene	165	10.381	10.411	(0.979)	357876	50.0000	52.1(a)	
	75	Acenaphthylene	152	10.401	10.421	(0.981)	1893997	50.0000	52.4(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1661.D
Report Date: 17-Nov-2023 10:36

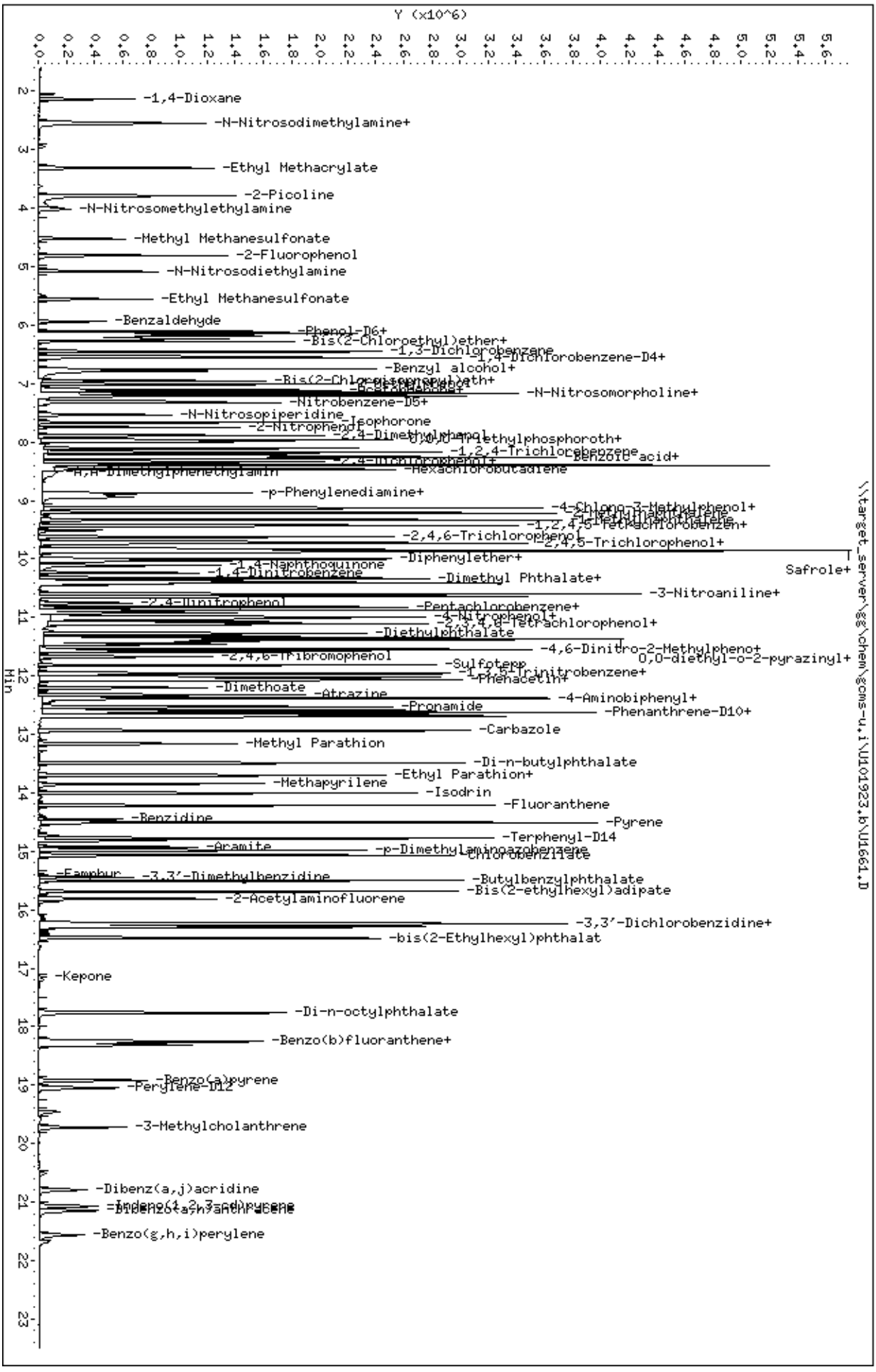
							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	76 1,2-Dinitrobenzene	168	10.443	10.483	(0.985)	162197	50.0000	48.8(a)	
	77 3-Nitroaniline	138	10.598	10.649	(1.000)	377182	50.0000	47.4(a)	
*	78 Acenaphthene-D10	164	10.598	10.607	(1.000)	939540	40.0000		
	79 Acenaphthene	153	10.639	10.659	(1.004)	1194103	50.0000	55.3(a)	
	80 2,4-Dinitrophenol	184	10.753	10.794	(1.015)	208213	50.0000	42.1(a)	
	81 Pentachlorobenzene	250	10.826	10.845	(1.021)	555601	50.0000	51.7(a)	
	82 4-Nitrophenol	109	10.960	10.980	(1.034)	104541	50.0000	25.9(a)	
	83 Dibenzofuran	168	10.878	10.897	(1.026)	1672792	50.0000	51.7(a)	
	84 2,4-Dinitrotoluene	165	10.919	10.970	(1.030)	512026	50.0000	52.0(a)	
	85 1-Naphthylamine	143	11.002	11.021	(1.038)	1376268	50.0000	53.4(a)	
	86 2,3,5,6-Tetrachlorophenol	232	11.022	11.052	(1.040)	337960	50.0000	46.5(a)	
	87 2,3,4,6-Tetrachlorophenol	232	11.085	11.104	(1.046)	373022	50.0000	51.3(a)	
	88 2-Naphthylamine	143	11.116	11.146	(1.049)	1265649	50.0000	54.7(a)	
	89 Diethylphthalate	149	11.281	11.311	(1.064)	1470922	50.0000	51.5(a)	
	90 O,O-diethyl-o-2-pyrazinylphos	107	11.385	11.425	(1.074)	247948	50.0000	50.4(a)	
	91 Thionazin	107	11.385	11.425	(1.074)	247948	50.0000	50.4(a)	
	92 Fluorene	166	11.343	11.363	(1.070)	1421465	50.0000	52.8(a)	
	93 4-Chlorophenyl-phenylether	204	11.374	11.394	(1.073)	672074	50.0000	50.4(a)	
	94 5-Nitro-O-Toluidine	152	11.405	11.456	(1.076)	473141	50.0000	49.5(a)	
	95 4-Nitroaniline	138	11.436	11.508	(1.079)	400910	50.0000	48.9(a)	
	96 4,6-Dinitro-2-Methylphenol	198	11.467	11.518	(0.910)	283204	50.0000	48.4(a)	
	97 N-Nitrosodiphenylamine	169	11.550	11.580	(0.917)	1233411	50.0000	52.7(a)	
	98 1,2-Diphenylhydrazine	77	11.581	11.601	(0.919)	1080317	50.0000	48.8(a)	
	99 Azobenzene	77	11.581	11.601	(0.919)	1080317	50.0000	48.8(a)	
$	100 2,4,6-Tribromophenol	330	11.674	11.694	(1.102)	179522	50.0000	49.1	
	101 Sulfotepp	97	11.819	11.839	(0.938)	233721	50.0000	52.6(a)	
	102 1,3,5-Trinitrobenzene	213	11.995	12.067	(0.952)	162557	50.0000	51.8(a)	
	103 Diallate	86	11.954	11.974	(0.949)	354106	50.0000	52.1(a)	
	104 Phorate	75	11.964	11.984	(0.950)	738178	50.0000	46.8(aH)	
	105 Phenacetin	108	12.047	12.118	(0.956)	700172	50.0000	53.8(a)	
	106 4-Bromophenyl-phenylether	248	12.026	12.046	(0.955)	401555	50.0000	50.4(a)	
	107 Hexachlorobenzene	284	12.068	12.098	(0.958)	421222	50.0000	51.9(a)	
	108 Dimethoate	87	12.202	12.253	(0.969)	423117	50.0000	60.4(a)	
	109 Atrazine	200	12.327	12.357	(0.979)	321291	50.0000	57.7(aH)	
	110 4-Aminobiphenyl	169	12.389	12.419	(0.984)	1234073	50.0000	51.1(a)	
	111 Pentachlorophenol	266	12.378	12.398	(0.983)	261301	50.0000	44.9(a)	
	112 Pentachloronitrobenzene	237	12.368	12.388	(0.982)	186923	50.0000	49.7(a)	
	113 Pronamide	173	12.523	12.564	(0.994)	688188	50.0000	49.7(a)	
*	114 Phenanthrene-D10	188	12.596	12.615	(1.000)	1651633	40.0000		
	115 Disulfoton	88	12.668	12.698	(1.006)	708651	50.0000	53.0(a)	
	116 Phenanthrene	178	12.627	12.657	(1.002)	1823581	50.0000	53.7(a)	
	117 Dinoseb	211	12.658	12.688	(1.005)	373775	50.0000	48.8(a)	
	118 Anthracene	178	12.689	12.729	(1.007)	1904241	50.0000	52.3(a)	
	119 Carbazole	167	12.937	12.967	(1.027)	1906968	50.0000	50.8(a)	
	120 Methyl Parathion	109	13.155	13.174	(1.044)	400386	50.0000	59.3(a)	
	121 Di-n-butylphthalate	149	13.496	13.516	(1.071)	2391677	50.0000	54.0(a)	
	122 Ethyl Parathion	291	13.703	13.733	(1.088)	151799	50.0000	52.8(a)	
	123 Parathion	291	13.703	13.733	(1.088)	151799	50.0000	52.8(a)	
	124 4-Nitroquinoline-1-Oxide	190	13.693	13.712	(1.087)	133284	50.0000	41.4(a)	
	125 Methapyrilene	97	13.848	13.878	(1.099)	528614	50.0000	55.7(a)	
	126 Isodrin	193	14.003	14.013	(1.112)	267762	50.0000	49.1(a)	
	127 Fluoranthene	202	14.221	14.240	(1.129)	2027647	50.0000	50.3(a)	
	128 Pyrene	202	14.510	14.530	(0.893)	1980333	50.0000	51.5(a)	
	129 Benzidine	184	14.459	14.468	(0.890)	397426	50.0000	37.9(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1661.D
Report Date: 17-Nov-2023 10:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
$	130 Terphenyl-D14	244	14.780	14.799	(0.910)	1488088	50.0000	52.7	
	131 Aramite	185	14.924	14.934	(0.918)	154494	50.0000	59.2(a)	
	132 p-Dimethylaminoazobenzene	225	14.987	15.006	(0.922)	439856	50.0000	51.2(a)	
	133 Chlorobenzilate	251	15.069	15.089	(0.927)	612718	50.0000	49.2(a)	
	135 3,3'-Dimethylbenzidine	212	15.442	15.451	(0.950)	334679	50.0000	46.2(a)	
	136 Butylbenzylphthalate	149	15.504	15.513	(0.954)	1155611	50.0000	55.6(a)	
	137 Bis(2-ethylhexyl)adipate	129	15.690	15.710	(0.966)	976973	50.0000	52.7(a)	
	138 2-Acetylaminofluorene	181	15.815	15.834	(0.973)	470440	50.0000	43.9(a)	
	139 3,3'-Dichlorobenzidine	252	16.249	16.259	(1.000)	344763	50.0000	37.6(a)	
	140 Benzo(a)anthracene	228	16.229	16.248	(0.999)	1532812	50.0000	49.7(a)	
*	141 Chrysene-D12	240	16.249	16.268	(1.000)	994163	40.0000		
	142 Chrysene	228	16.291	16.309	(1.003)	1407212	50.0000	49.9(a)	
	143 bis(2-Ethylhexyl)phthalate	149	16.487	16.497	(1.015)	1594067	50.0000	57.4(a)	
	145 Di-n-octylphthalate	149	17.760	17.770	(0.933)	2203073	50.0000	71.3(a)	
	146 Benzo(b)fluoranthene	252	18.247	18.256	(0.958)	811907	50.0000	52.0(a)	
	148 7,12-Dimethylbenz(A)Anthracen	256	18.268	18.277	(0.959)	446674	50.0000	56.0(a)	
	149 Benzo(k)fluoranthene	252	18.309	18.329	(0.961)	835708	50.0000	55.4(aH)	
	150 Benzo(a)pyrene	252	18.920	18.929	(0.993)	614522	50.0000	51.0(a)	
*	151 Perylene-D12	264	19.044	19.053	(1.000)	424408	40.0000		
	152 3-Methylcholanthrene	268	19.727	19.736	(1.036)	288676	50.0000	53.2(a)	
	153 Dibenz(a,j)acridine	279	20.793	20.802	(1.092)	316850	50.0000	53.8(a)	
	154 Indeno(1,2,3-cd)pyrene	276	21.072	21.082	(1.107)	343721	50.0000	51.7(a)	
	155 Dibenzo(a,h)anthracene	278	21.155	21.164	(1.111)	367069	50.0000	55.1(a)	
	156 Benzo(g,h,i)perylene	276	21.569	21.578	(1.133)	360129	50.0000	54.2(a)	
M	157 Total PAHs	100				22943259	850.000	939	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101923,b\U1661,D
Date : 19-OCT-2023 23:49
Client ID:
Sample Info: WG344145-3
Volume Injected (uL): 1.0
Column phase: Rxi-5ViMS
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101923,b\U1661,D
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-Ethyl Methacrylate
-2-Picoline
-N-Nitrosomethylethylamine
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Phenol-D6+
-Bis(2-Chloroethyl)ether+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-N-Nitrosomorpholine+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-1,2,4-Trichlorobenzene
-Benzoic acid+
-Hexachlorobutadiene
-p-Phenylenediamine+
-4-Chloro-3-Methylphenol+
-1,2,4,5-Tetrachlorobenzen+
-2,4,6-Trichlorophenol
-2,4,5-Trichlorophenol+
Safrole+
-Diphenylether+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-3-Nitroaniline+
-2,4-Dinitrophenol
-Pentachlorobenzene+
-4-Nitrophenol+
-2,3,4,6-Tetrachlorophenol+
-Diethylphthalate
-4,6-Dinitro-2-Methylphenol+
-2,4,6-Tribromophenol
O,O-diethyl-o-2-pyrazinyl+
-Sulfotepp
-1,3,5-Trinitrobenzene+
-Phenacetin+
-Dimethoate
-Atrazine
-4-Aminobiphenyl+
-Pronamide
-Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
Chlorobenzilate
-Famphur
-3,3'-Dimethylbenzidine
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-3,3'-Dichlorobenzidine+
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Benzo(g,h,i)perylene

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\UD935.D

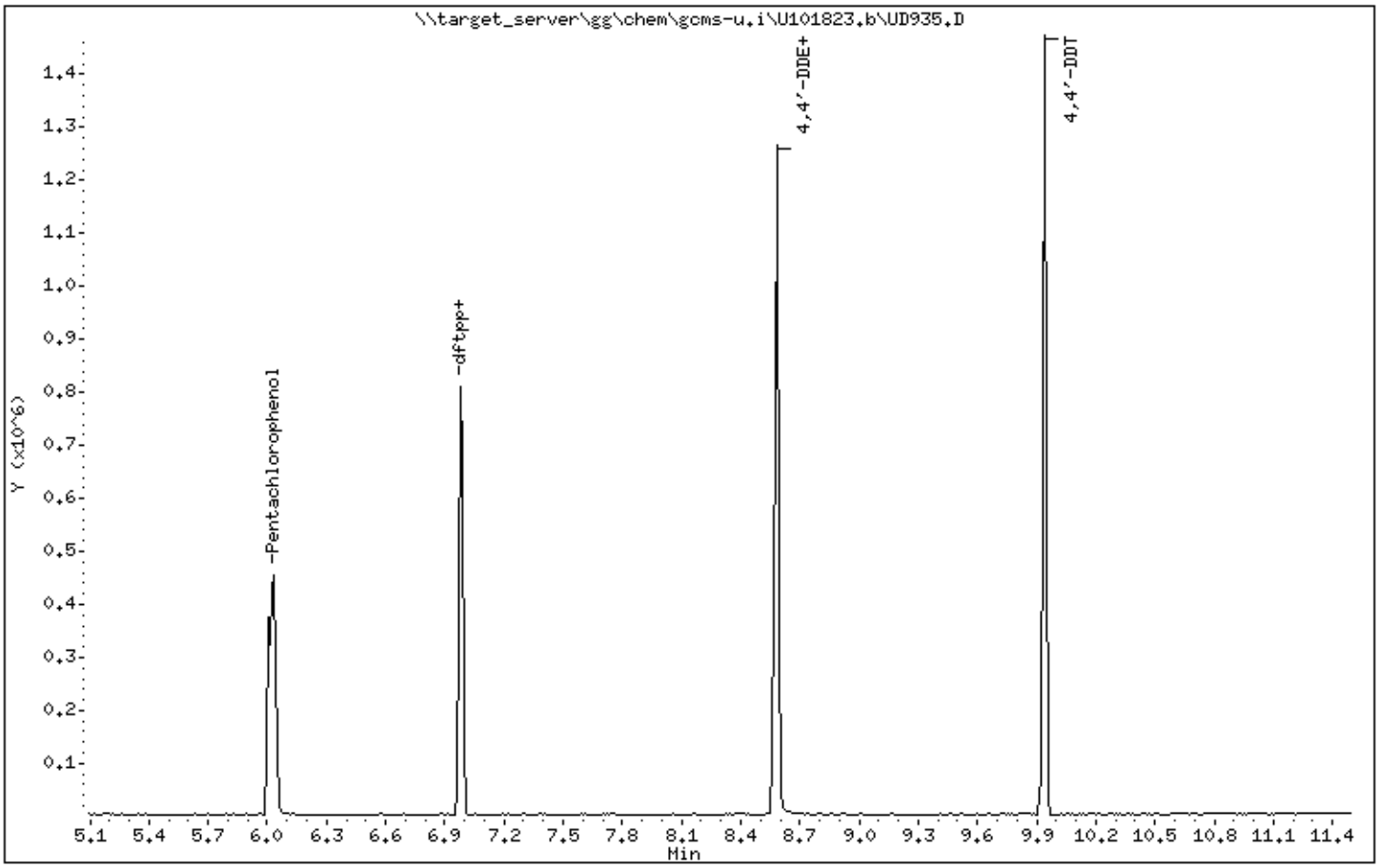
Date : 18-OCT-2023 09:54

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG344071-1

Operator: DT

Column phase: Rxi-SVOCms Column diameter: 0.25



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\UD935.D

Date : 18-OCT-2023 09:54

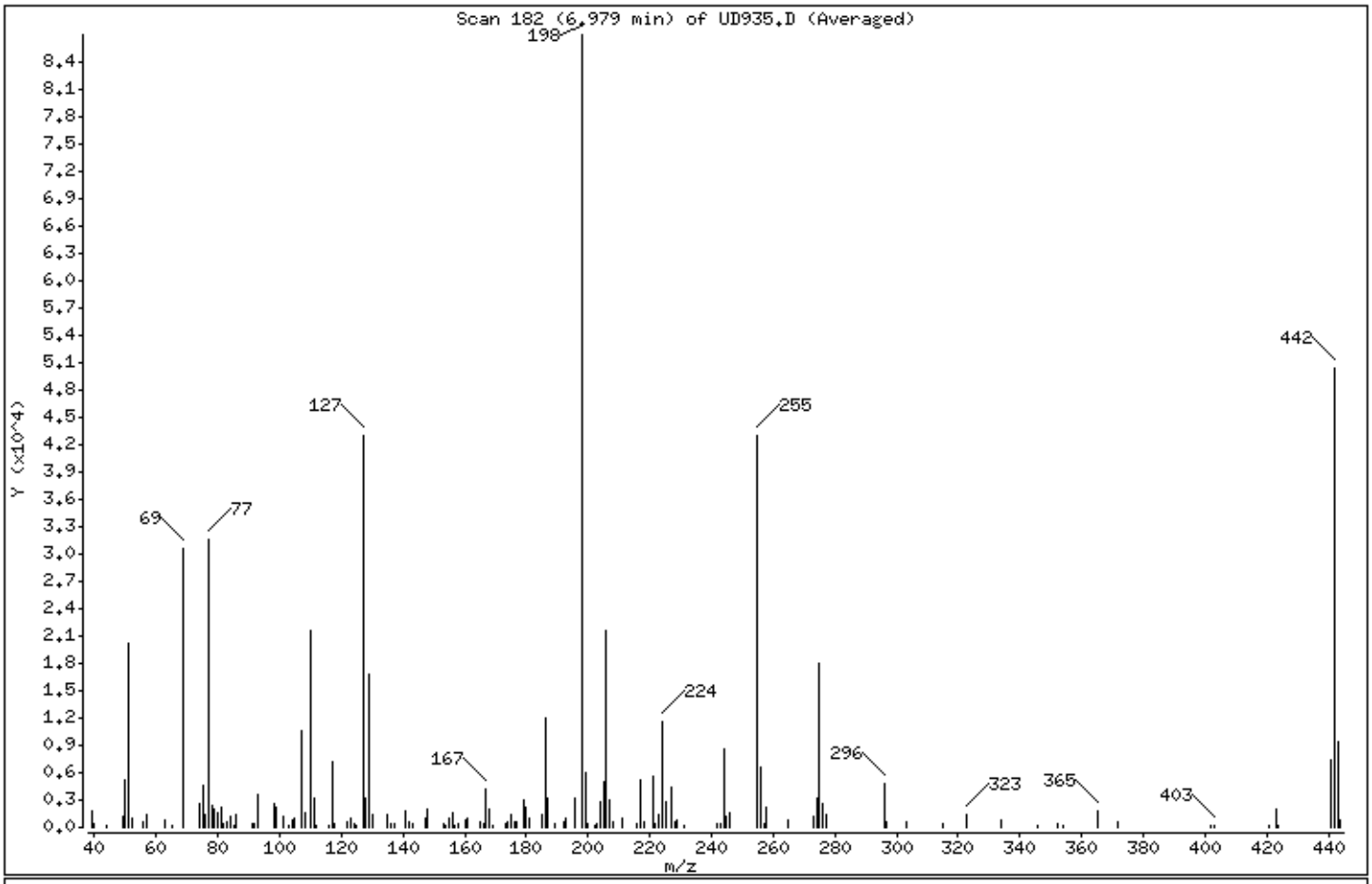
Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG344071-1

Operator: DT

Column phase: Rxi-SVOCms Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.79
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Less than 100.00% of mass 198	34.87
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	49.07
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.73
275	10.00 - 60.00% of mass 198	21.09
365	1.00 - 100.00% of mass 198	2.12
441	0.01 - 100.00% of mass 443	9.64 (78.45)
442	50.00 - 100.00% of mass 198	66.33
443	15.00 - 24.00% of mass 442	12.28 (18.52)

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\UD935.D

Date : 18-OCT-2023 09:54

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG344071-1

Operator: DT

Column phase: Rxi-SVOCms Column diameter: 0.25

Data File: UD935.D
Spectrum: Scans 182-184 (6.979 min), Subtraction Scan 179
Location of Maximum: 198.00
Number of points: 142

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1746	112.00	177	176.00	583	243.00	478
40.00	383	116.00	240	177.00	566	244.00	8633
44.00	178	117.00	7221	179.00	3010	245.00	1200
50.00	5115	118.00	456	180.00	2130	246.00	1532
51.00	19734	122.00	547	181.00	1074	255.00	42962
52.00	1084	123.00	1008	185.00	1374	256.00	6620
56.00	642	124.00	375	186.00	11947	257.00	386
57.00	1435	125.00	204	187.00	3173	258.00	2272
63.00	893	127.00	43016	189.00	489	265.00	882
65.00	254	128.00	3107	192.00	674	273.00	1161
69.00	30584	129.00	16693	193.00	962	274.00	3240
74.00	2519	130.00	1392	196.00	3259	275.00	17886
75.00	4544	135.00	1310	198.00	86922	276.00	2630
76.00	1319	136.00	497	199.00	5928	277.00	1493
77.00	31485	137.00	499	200.00	412	296.00	4715
78.00	2466	141.00	1800	202.00	292	297.00	515
79.00	1952	142.00	502	203.00	469	303.00	609
80.00	1546	143.00	376	204.00	2845	315.00	421
81.00	2120	147.00	1047	205.00	5001	323.00	1459
82.00	444	148.00	2092	206.00	21664	334.00	725
83.00	665	153.00	460	207.00	2902	346.00	184
85.00	173	154.00	276	208.00	605	352.00	361
86.00	624	155.00	1059	211.00	967	354.00	213
91.00	386	156.00	1648	216.00	419	365.00	1783
92.00	406	157.00	170	217.00	5295	372.00	591
93.00	3542	158.00	351	218.00	603	402.00	176
98.00	2506	160.00	747	221.00	5497	403.00	196
99.00	2114	161.00	974	222.00	403	421.00	167
101.00	1264	165.00	583	223.00	1299	423.00	2007
103.00	242	166.00	446	224.00	11568	424.00	228
104.00	764	167.00	4202	225.00	2812	441.00	7414
105.00	954	168.00	2075	227.00	4413	442.00	50452
107.00	10588	169.00	170	228.00	517	443.00	9454
108.00	1643	173.00	391	229.00	851	444.00	770
110.00	21533	174.00	588	231.00	181		

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\UD935.D

Date : 18-OCT-2023 09:54

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG344071-1

Operator: DT

Column phase: Rxi-SVOCms Column diameter: 0.25

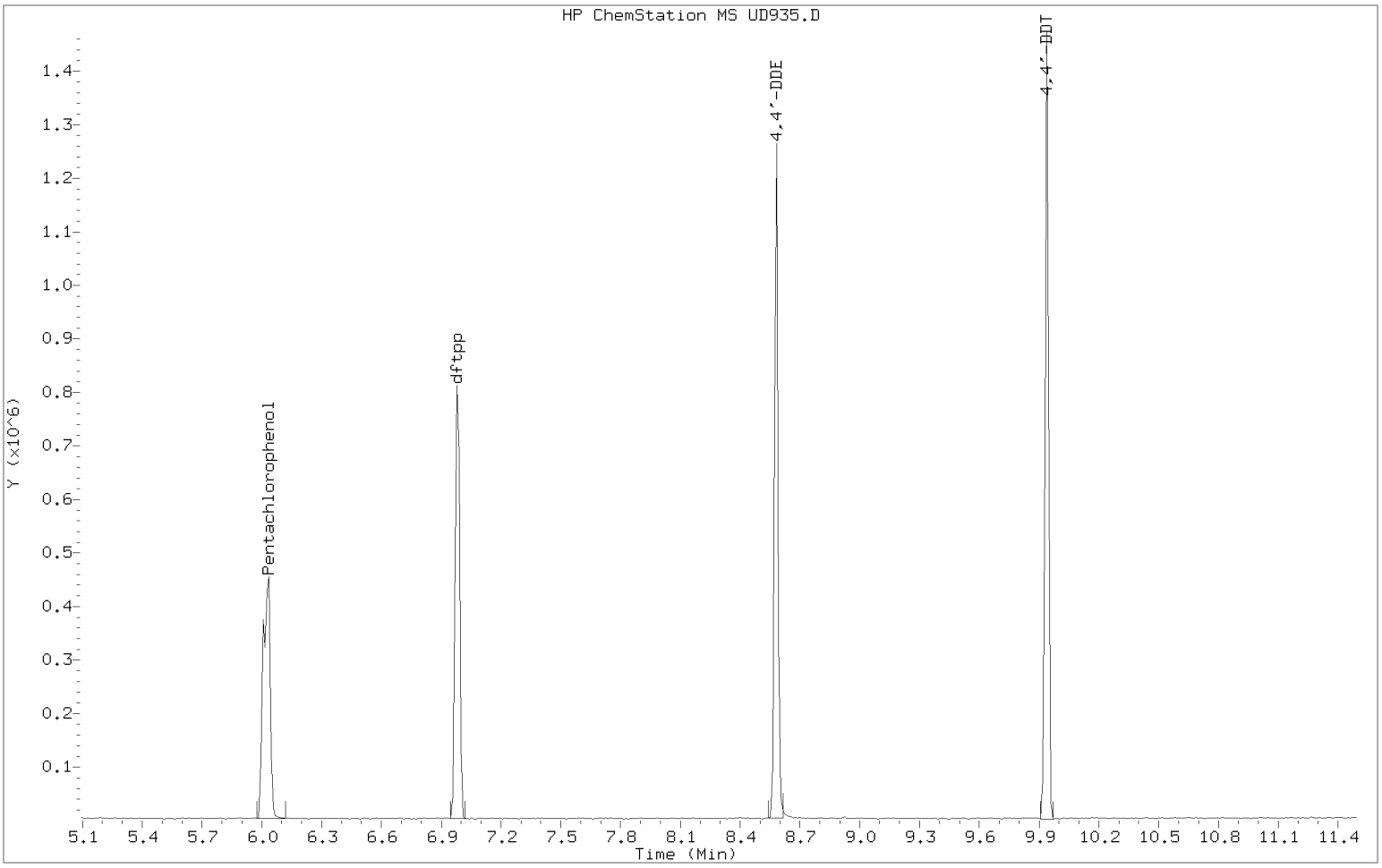
Data File: UD935.D
Spectrum: Scans 182-184 (6.979 min), Subtraction Scan 179
Location of Maximum: 198.00
Number of points: 142

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	3237	175.00	1496	242.00	419		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

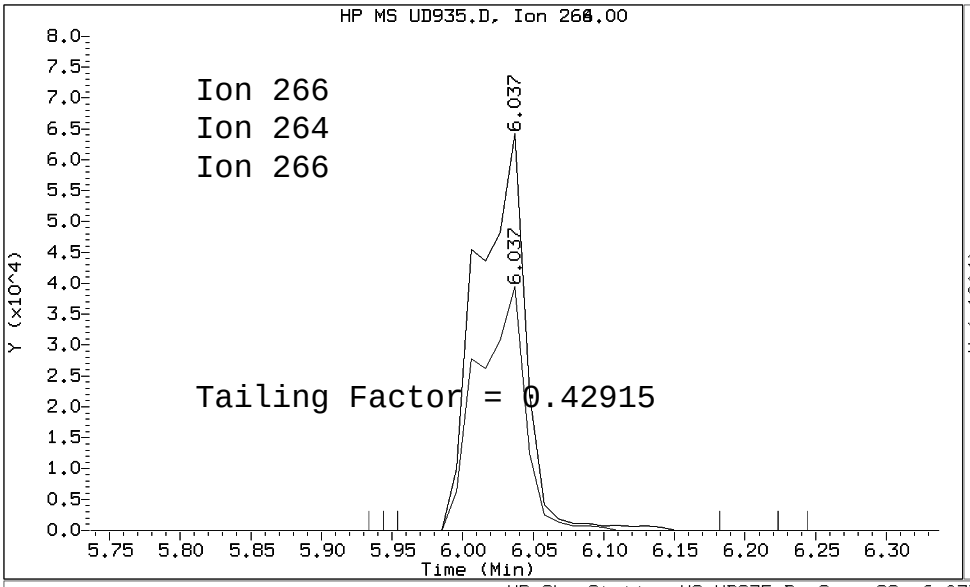
Report Date: 10/20/2023 13:35

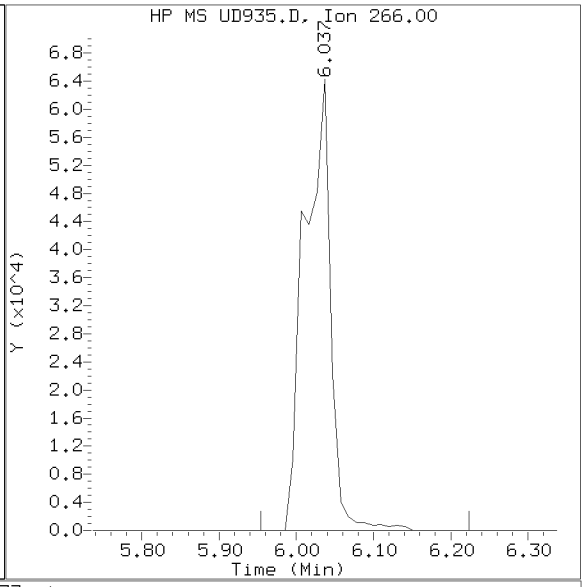
Datafile Analyzed: //target_server/gg/chem/gcms-u.i/U101823.b/UD935.D
Method Used: \\target_server\gg\chem\gcms-u.i\U101823.b\DFTPP390.m Inst: gcms-
Injection Date: 18-OCT-2023 09:54 Operator: DT
Sample Info: WG344071-1 WG344071-1
Misc Info: WG344071,WG344071,WG344071-4,SQ5205-1

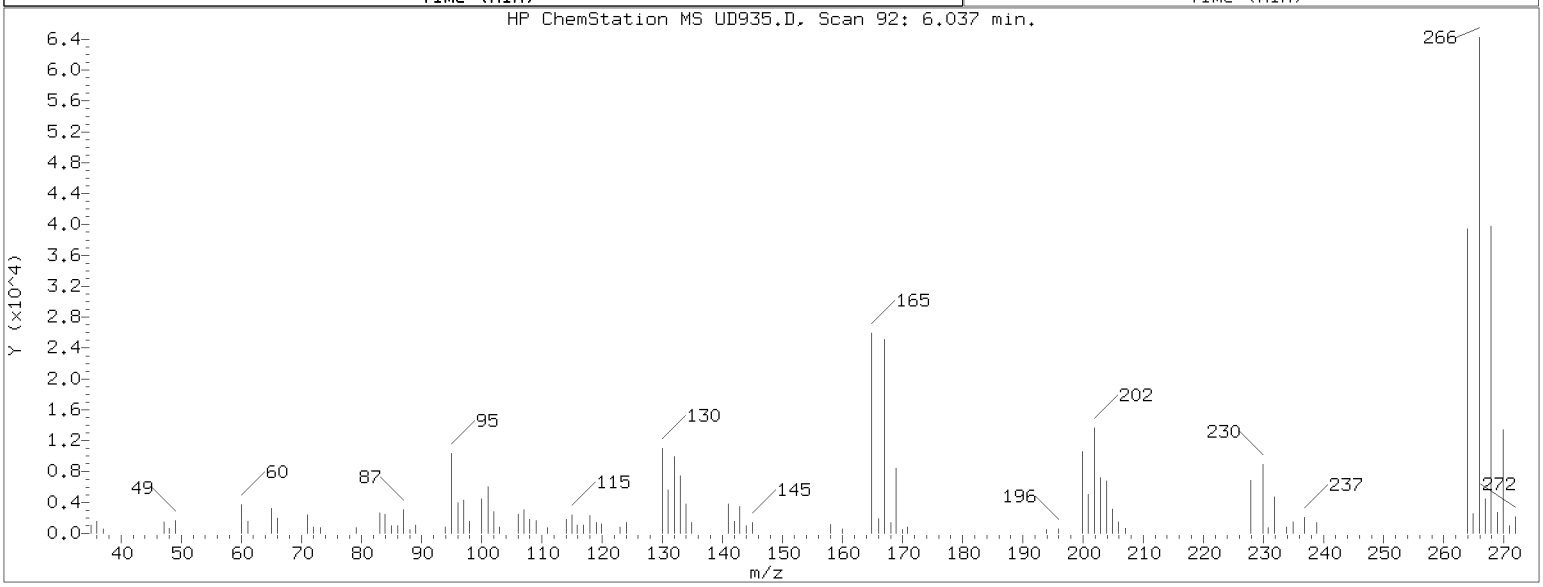


Report Date: 10/20/2023 13:35

Datafile Analyzed: //target_server/gg/chem/gcms-u.i/U101823.b/UD935.D
Method Used: \\target_server\gg\chem\gcms-u.i\U101823.b\DFTPP390.m Inst: gcms-
Injection Date: 18-OCT-2023 09:54 Operator: DT
Sample Info: WG344071-1 WG344071-1
Misc Info: WG344071,WG344071,WG344071-4,SQ5205-1







Pentachlorophenol
==========
Exp. RT = 6.438
Found RT = 6.037

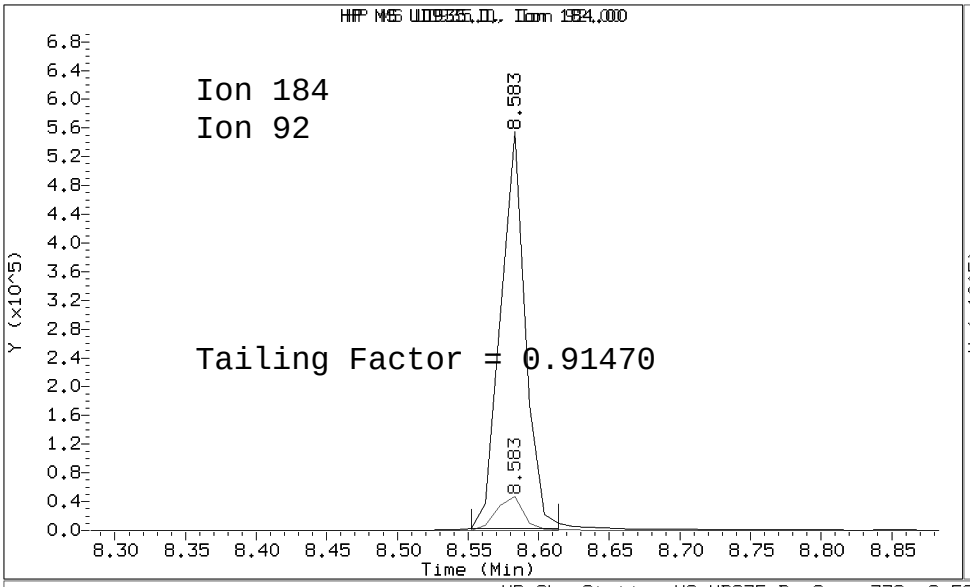
Mass	Area	Ratio
266	152320	100.00
264	92355	60.63
266	152320	100.00

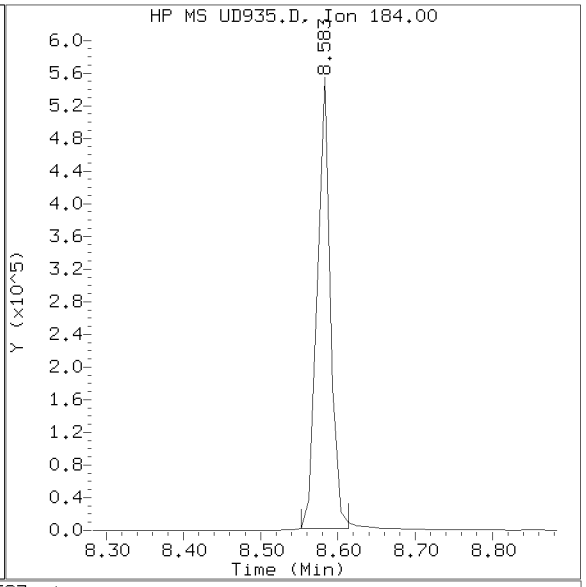
Tailing factor for Pentachlorophenol OK

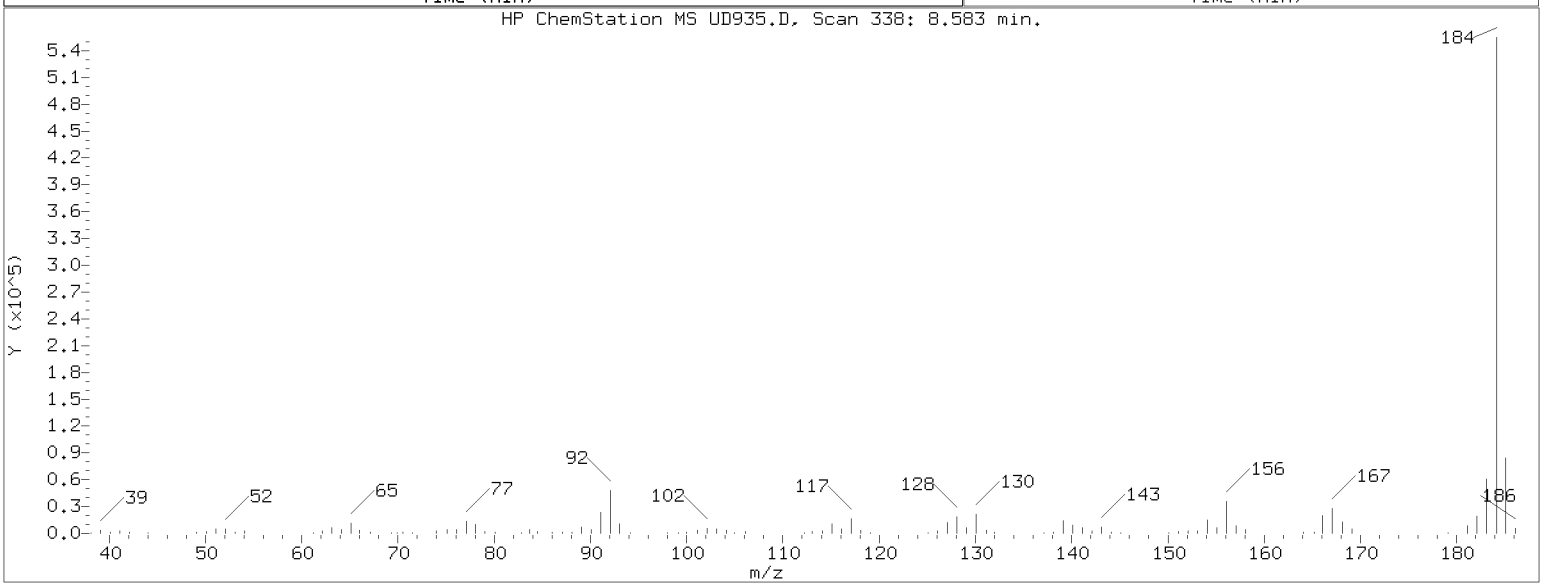
Tail Factor = 0.429 Maximum Allowed = 2

Report Date: 10/20/2023 13:35

Datafile Analyzed: //target_server/gg/chem/gcms-u.i/U101823.b/UD935.D
Method Used: \\target_server\gg\chem\gcms-u.i\U101823.b\DFTPP390.m Inst: gcms-
Injection Date: 18-OCT-2023 09:54 Operator: DT
Sample Info: WG344071-1 WG344071-1
Misc Info: WG344071,WG344071,WG344071-4,SQ5205-1





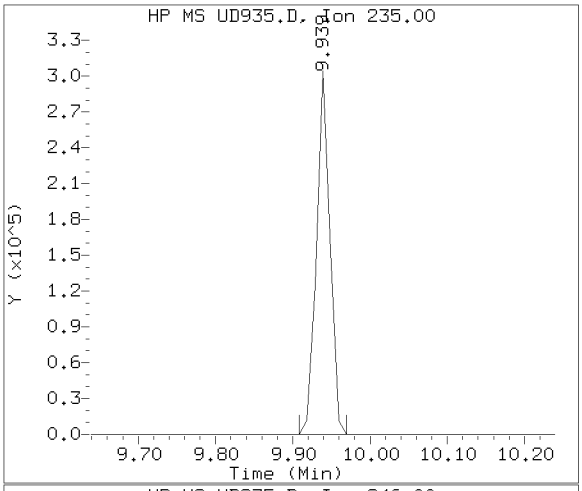


Benzidine
==========
 Exp. RT =   8.963
Found RT =   8.583

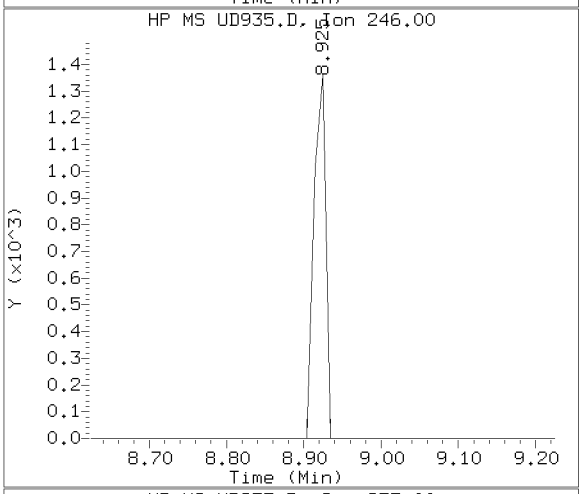
Mass	Area	Ratio
184	669882	100.00
92	63313	9.45

Tailing factor for Benzidine OK

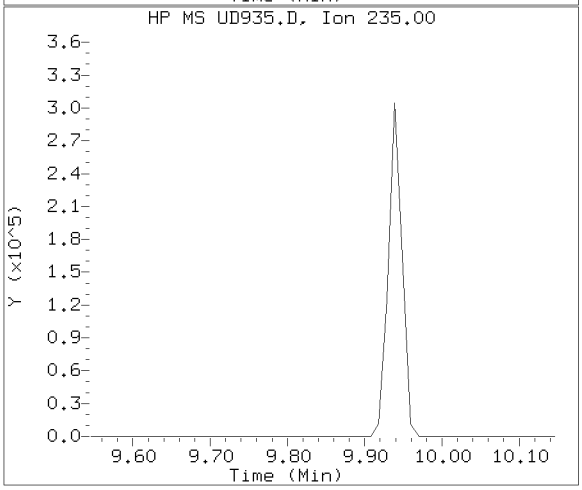
Tail Factor = 0.915 Maximum Allowed = 2



Compound: 4,4'-DDT
Quant Mass: 235
RT: 9.939
Area: 376026



Compound: 4,4'-DDE
Quant Mass: 246
RT: 8.925
Area: 1477



Compound: 4,4'-DDD
Quant Mass: 235
RT: 0.000
Area: 0

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	376026			N/A
4,4-DDE	1477	0.4	20.0	PASS
4,4-DDD	0	0.0	20.0	PASS
4,4-DDD + DDE	1477	0.4	20.0	PASS

****

TUNE SAMPLE *** PASSED *** DDT BREAKDOWN TEST

****

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\UD936.D

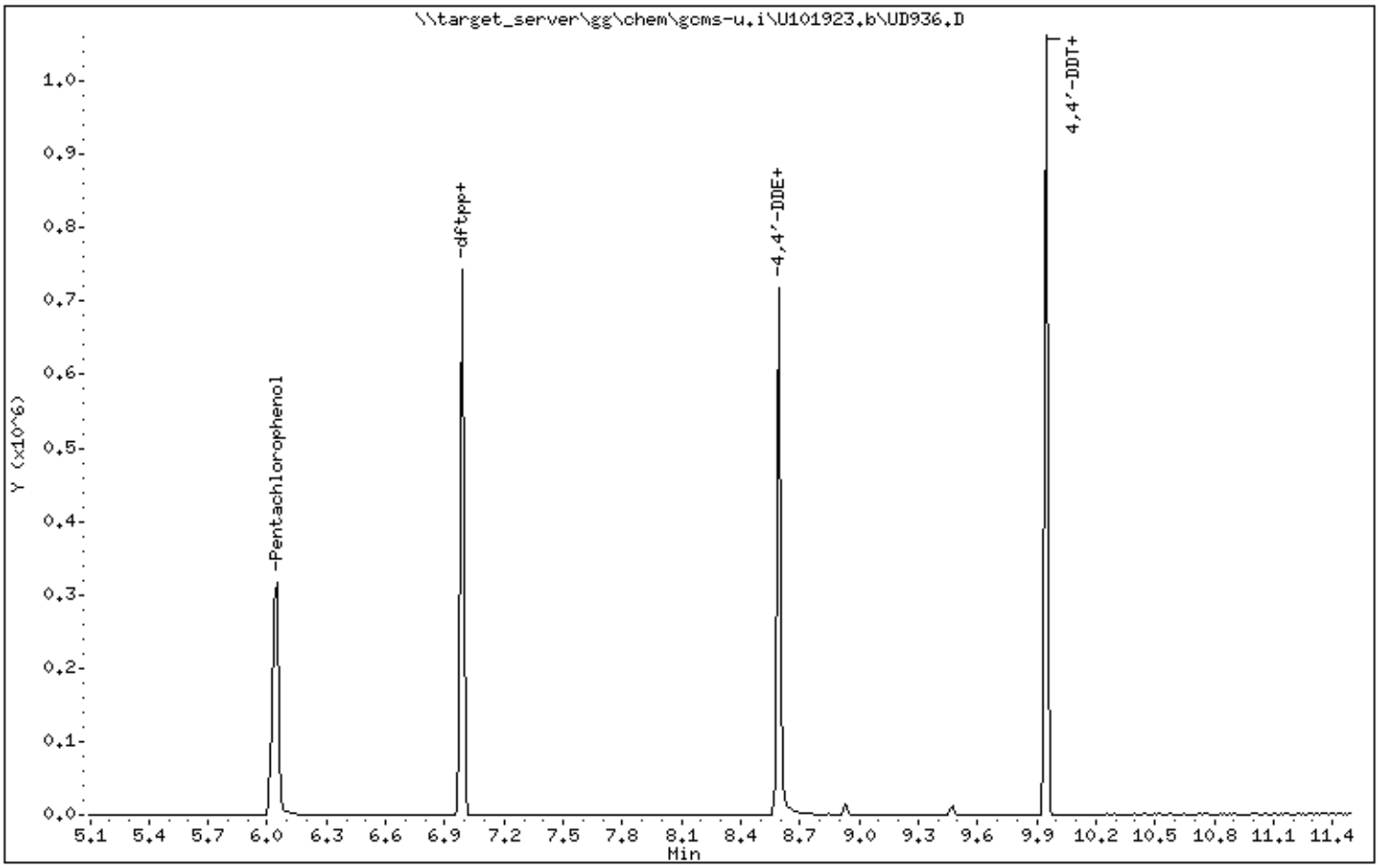
Date : 19-OCT-2023 13:31

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG344145-1

Operator: DT

Column phase: Rxi-SVOCms Column diameter: 0.25



Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\UD936.D

Date : 19-OCT-2023 13:31

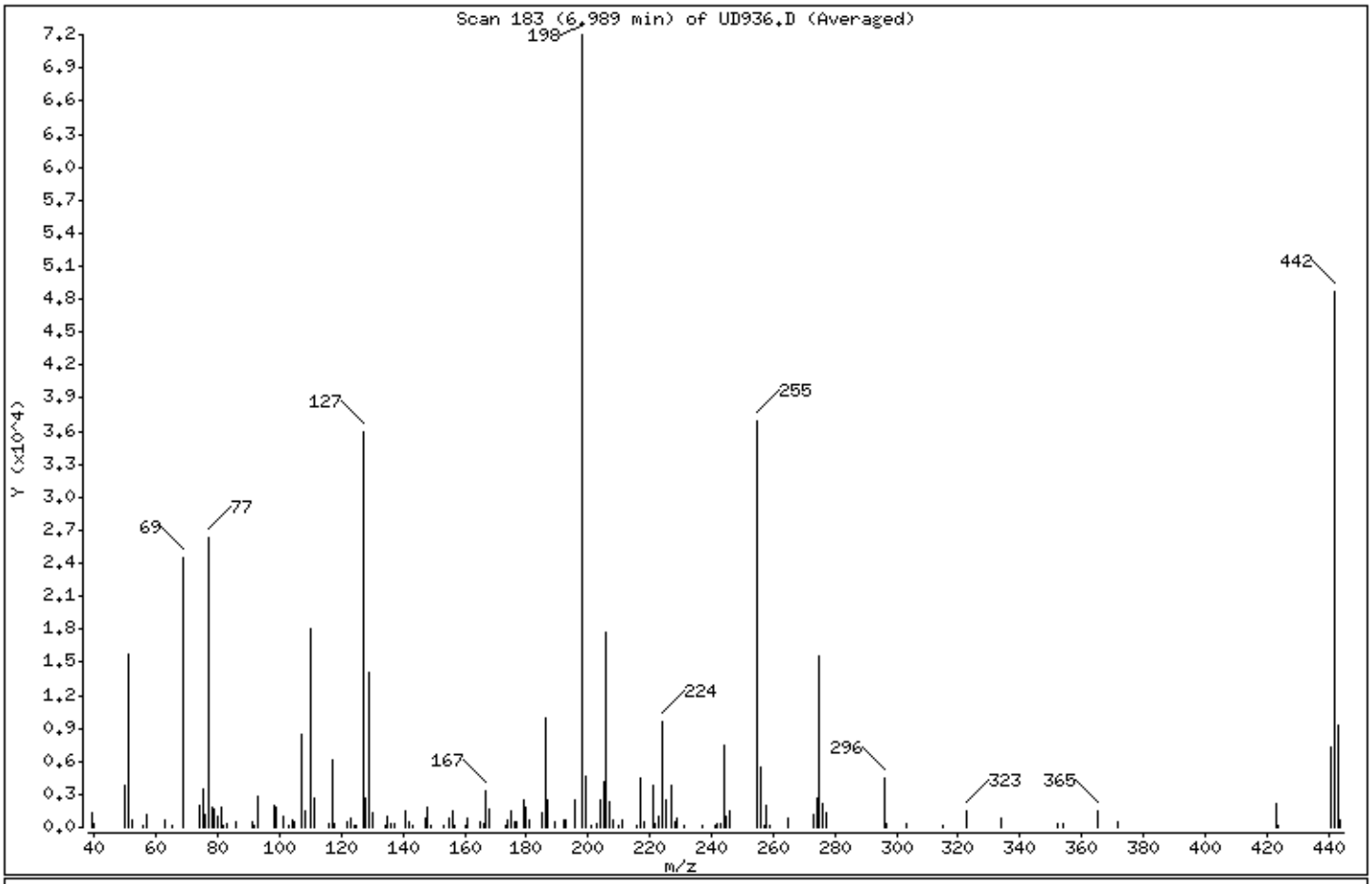
Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG344145-1

Operator: DT

Column phase: Rxi-SVOCms Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.13
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Less than 100.00% of mass 198	35.17
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	50.47
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.40
275	10.00 - 60.00% of mass 198	21.02
365	1.00 - 100.00% of mass 198	1.88
441	0.01 - 100.00% of mass 443	9.90 (77.16)
442	50.00 - 100.00% of mass 198	68.69
443	15.00 - 24.00% of mass 442	12.83 (18.68)

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\UD936.D

Date : 19-OCT-2023 13:31

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG344145-1

Operator: DT

Column phase: Rxi-SVOCms Column diameter: 0.25

Data File: UD936.D
Spectrum: Scans 183-185 (6.989 min), Subtraction Scan 179
Location of Maximum: 198.00
Number of points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1286	117.00	6113	179.00	2501	242.00	258
40.00	348	118.00	386	180.00	1762	243.00	290
50.00	3844	122.00	513	181.00	739	244.00	7527
51.00	15715	123.00	746	185.00	1243	245.00	1003
52.00	706	124.00	223	186.00	9941	246.00	1420
56.00	237	125.00	189	187.00	2522	255.00	36920
57.00	1096	127.00	35914	189.00	424	256.00	5400
63.00	668	128.00	2637	192.00	743	257.00	205
65.00	229	129.00	14146	193.00	730	258.00	1924
69.00	24527	130.00	1289	196.00	2414	259.00	214
74.00	2038	134.00	199	198.00	72037	265.00	796
75.00	3544	135.00	1052	199.00	4666	273.00	1127
76.00	1172	136.00	374	201.00	181	274.00	2612
77.00	26388	137.00	399	203.00	287	275.00	15487
78.00	1799	141.00	1557	204.00	2566	276.00	2117
79.00	1645	142.00	416	205.00	4139	277.00	1295
80.00	1051	143.00	184	206.00	17712	296.00	4431
81.00	1780	147.00	796	207.00	2266	297.00	327
82.00	248	148.00	1769	208.00	630	303.00	399
83.00	409	149.00	216	210.00	192	315.00	218
86.00	456	153.00	209	211.00	665	323.00	1546
91.00	465	155.00	861	216.00	166	334.00	878
92.00	170	156.00	1481	217.00	4438	352.00	368
93.00	2882	157.00	170	218.00	485	354.00	367
98.00	2065	160.00	245	221.00	3866	365.00	1486
99.00	1825	161.00	841	222.00	373	372.00	521
101.00	1069	165.00	447	223.00	988	423.00	2113
103.00	180	166.00	256	224.00	9562	424.00	191
104.00	606	167.00	3364	225.00	2561	441.00	7328
105.00	531	168.00	1679	227.00	3835	442.00	48706
107.00	8377	173.00	228	228.00	443	443.00	9230
108.00	1439	174.00	668	229.00	854	444.00	737
110.00	18001	175.00	1502	231.00	197		
111.00	2617	176.00	420	237.00	171		
116.00	254	177.00	495	241.00	166		

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\UD936.D

Date : 19-OCT-2023 13:31

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG344145-1

Operator: DT

Column phase: Rxi-SVOCms Column diameter: 0.25

Data File: UD936.D

Spectrum: Scans 183-185 (6.989 min), Subtraction Scan 179

Location of Maximum: 198.00

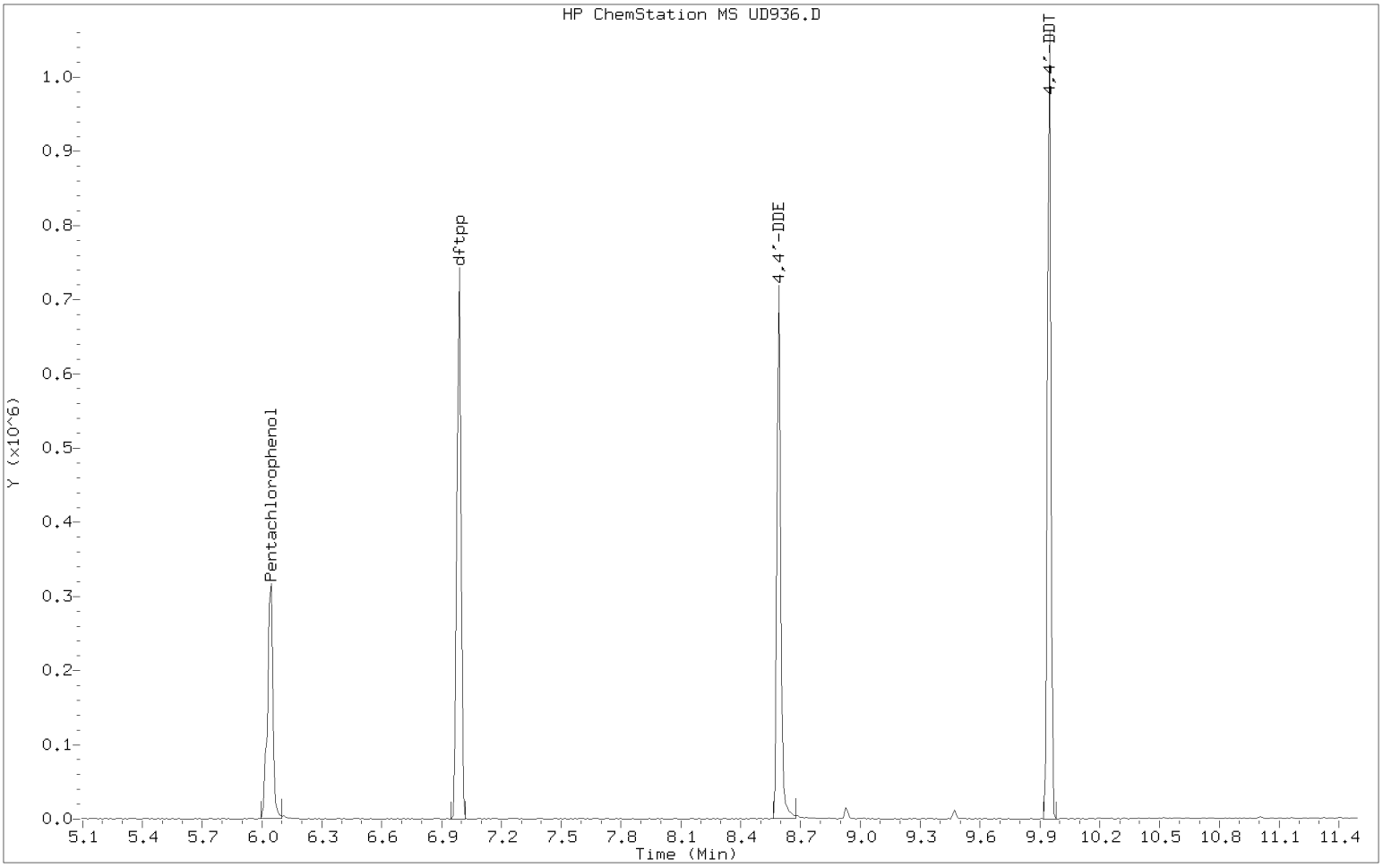
Number of points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

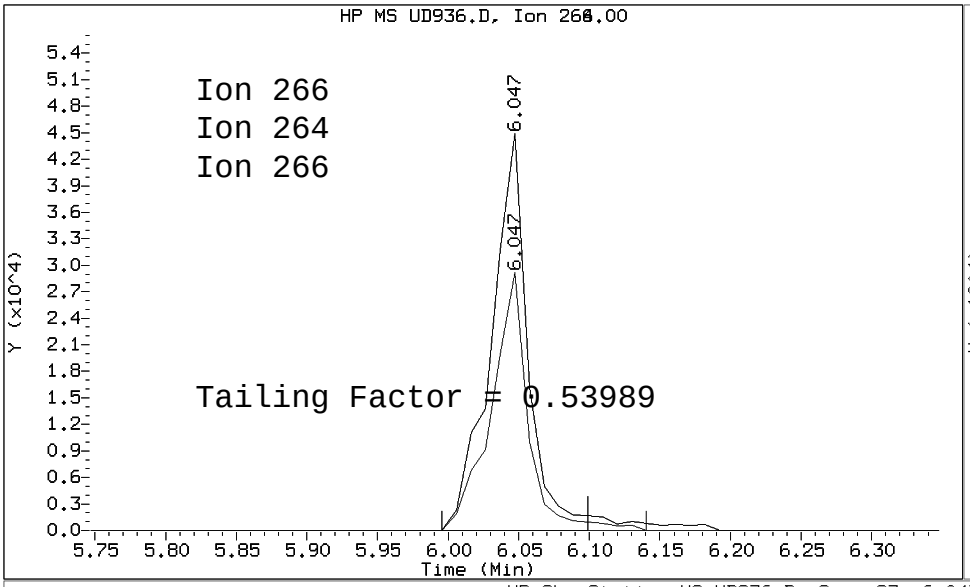
Report Date: 10/20/2023 13:37

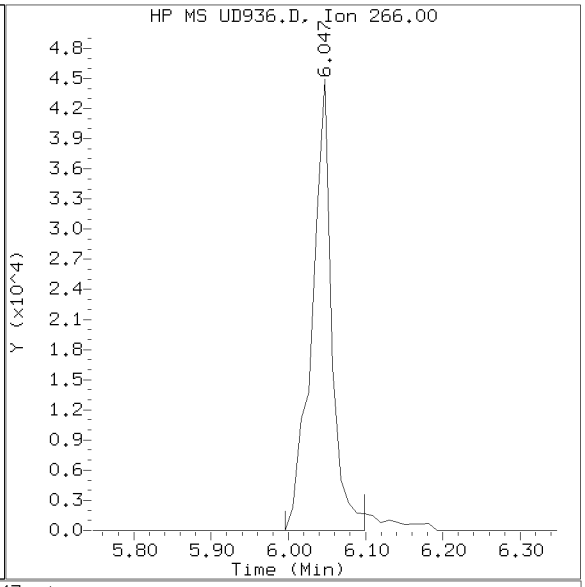
Datafile Analyzed: //target_server/gg/chem/gcms-u.i/U101923.b/UD936.D
Method Used: \\target_server\gg\chem\gcms-u.i\U101923.b\DFTPP390.m Inst: gcms-
Injection Date: 19-OCT-2023 13:31 Operator: DT
Sample Info: WG344145-1 WG344145-1
Misc Info: WG344145,WG344145,WG344071-4,SQ5205-1

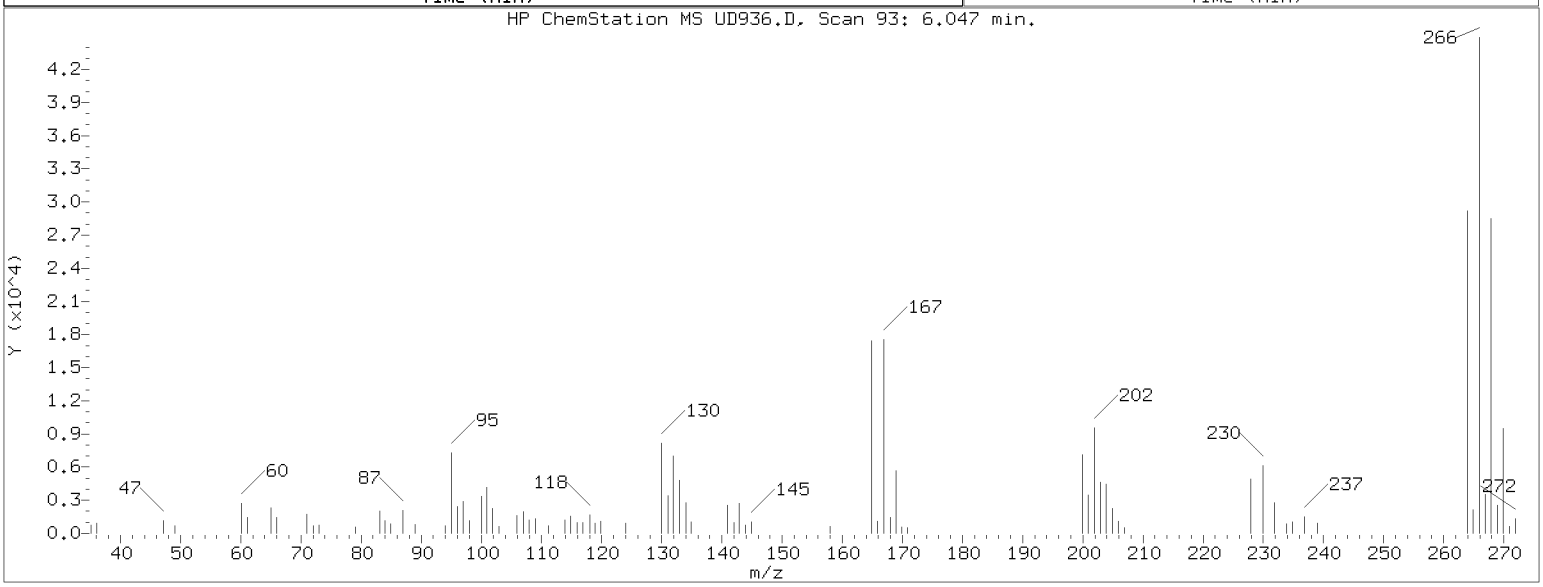


Report Date: 10/20/2023 13:37

Datafile Analyzed: //target_server/gg/chem/gcms-u.i/U101923.b/UD936.D
Method Used: \\target_server\gg\chem\gcms-u.i\U101923.b\DFTPP390.m Inst: gcms-
Injection Date: 19-OCT-2023 13:31 Operator: DT
Sample Info: WG344145-1 WG344145-1
Misc Info: WG344145,WG344145,WG344071-4,SQ5205-1







Pentachlorophenol
==========
Exp. RT = 6.438
Found RT = 6.047

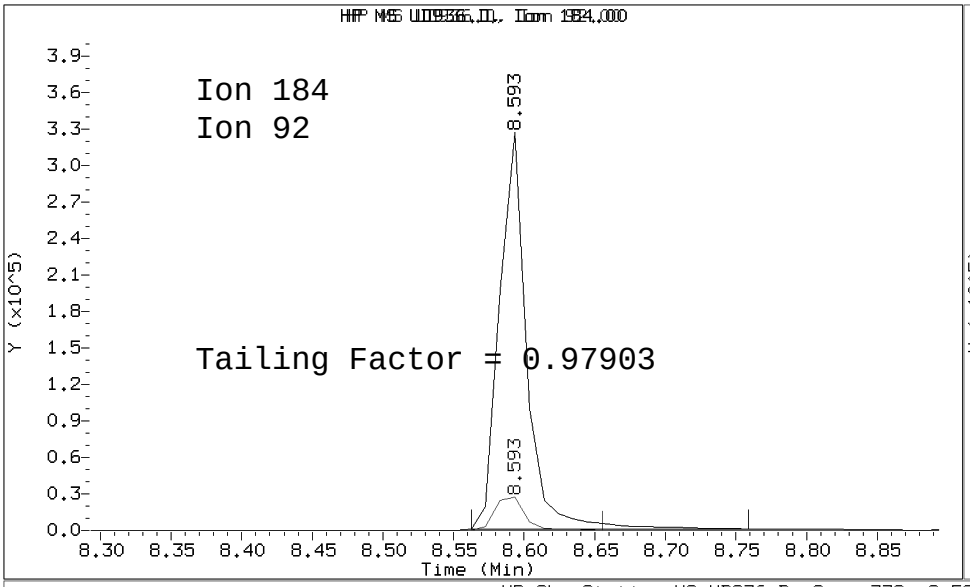
Mass	Area	Ratio
266	81412	100.00
264	53105	65.23
266	81412	100.00

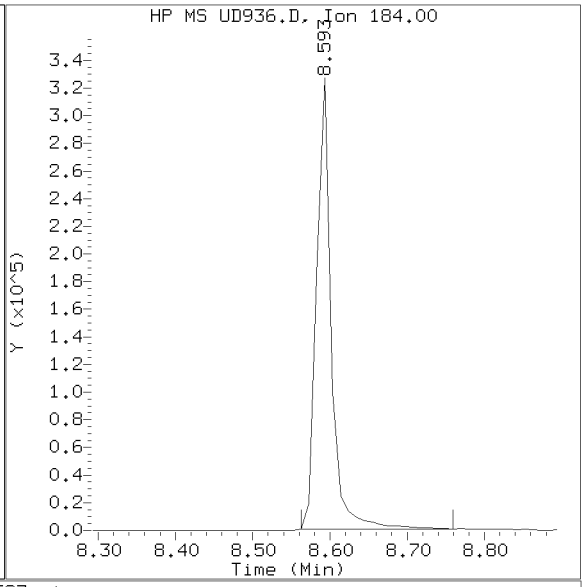
Tailing factor for Pentachlorophenol OK

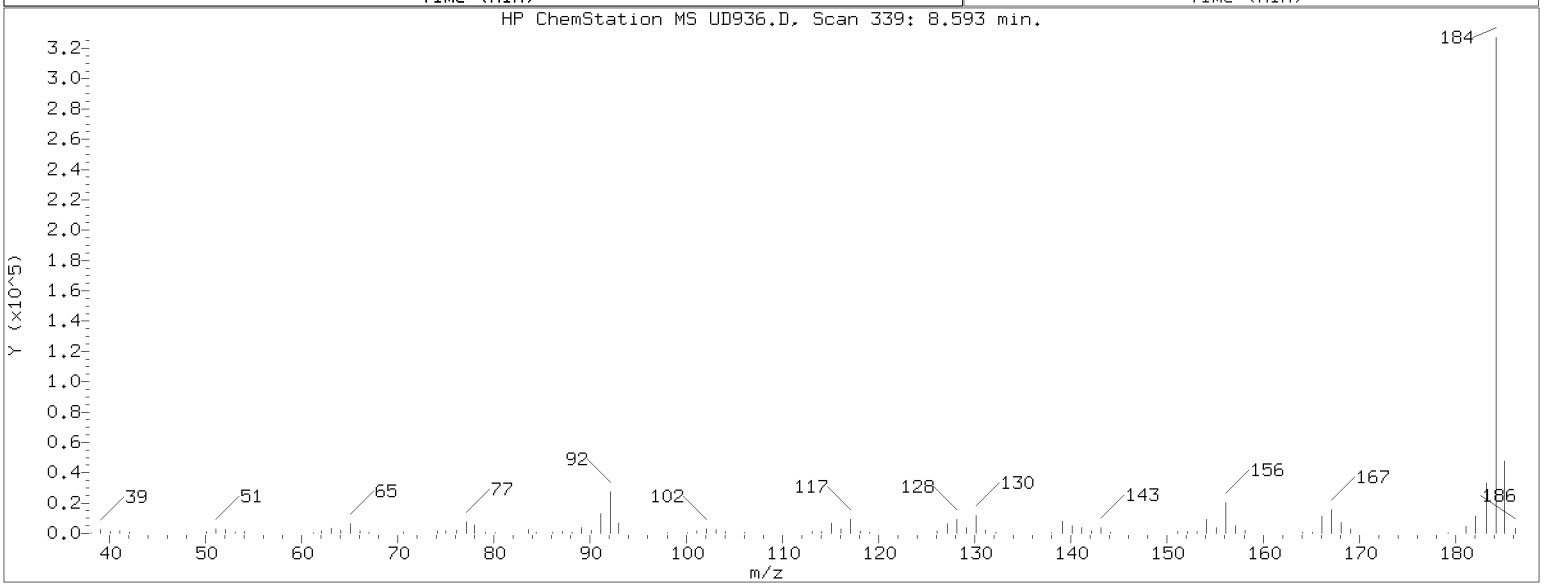
Tail Factor = 0.540 Maximum Allowed = 2

Report Date: 10/20/2023 13:37

Datafile Analyzed: //target_server/gg/chem/gcms-u.i/U101923.b/UD936.D
Method Used: \\target_server\gg\chem\gcms-u.i\U101923.b\DFTPP390.m Inst: gcms-
Injection Date: 19-OCT-2023 13:31 Operator: DT
Sample Info: WG344145-1 WG344145-1
Misc Info: WG344145,WG344145,WG344071-4,SQ5205-1





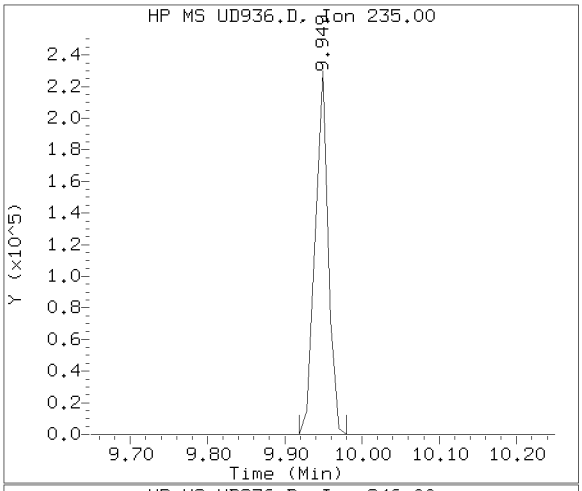


Benzidine
==========
 Exp. RT =   8.963
Found RT =   8.593

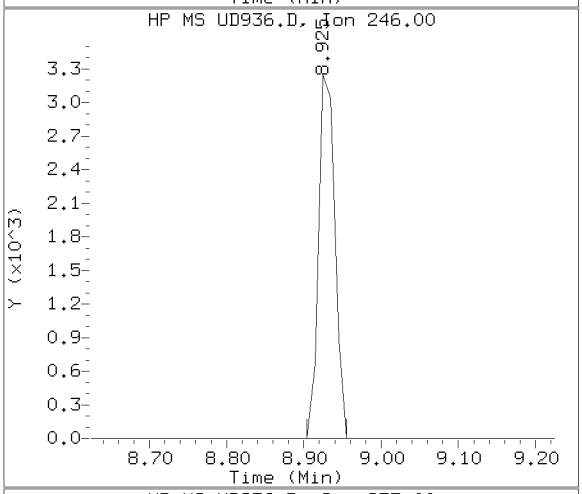
Mass	Area	Ratio
184	440631	100.00
92	41574	9.44

Tailing factor for Benzidine OK

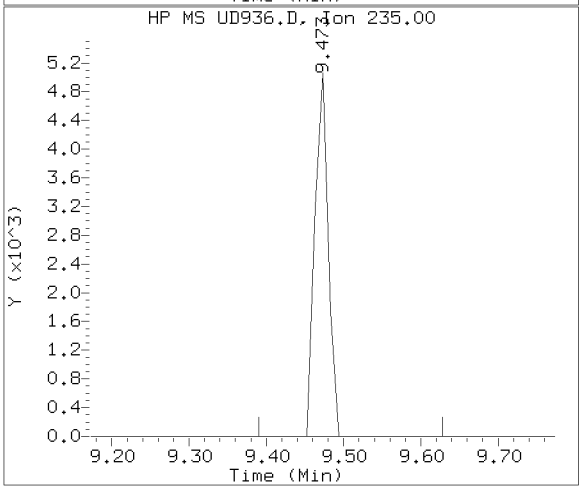
Tail Factor = 0.979 Maximum Allowed = 2



Compound: 4,4'-DDT
Quant Mass: 235
RT: 9.949
Area: 277324



Compound: 4,4'-DDE
Quant Mass: 246
RT: 8.925
Area: 4869



Compound: 4,4'-DDD
Quant Mass: 235
RT: 9.473
Area: 6205

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	277324			N/A
4,4-DDE	4869	1.7	20.0	PASS
4,4-DDD	6205	2.2	20.0	PASS
4,4-DDD + DDE	11074	3.8	20.0	PASS

****

TUNE SAMPLE *** PASSED *** DDT BREAKDOWN TEST

****

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5109
Lab ID: WG343378-1
Client ID: Method Blank
Matrix: AQ
Lab File ID: U1630.D

Sample Date: N/A
Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: SW846 3510C
Lab Prep Batch: WG343378

Report Date: 17-NOV-23
Analysis Date: 18-OCT-23
Analyst: DT
Analysis Method: SW846 8270D
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pyridine	U	7.5	ug/L	1	10	10.	3.7	7.5
1,4-Dichlorobenzene	U	7.5	ug/L	1	10	10.	3.7	7.5
2-Methylphenol	U	11	ug/L	1	15	15.	5.5	11.
3&4-Methylphenol	U	15	ug/L	1	20	20.	7.5	15.
Hexachloroethane	U	7.5	ug/L	1	10	10.	3.7	7.5
Nitrobenzene	U	7.5	ug/L	1	10	10.	3.7	7.5
Hexachlorobutadiene	U	7.5	ug/L	1	10	10.	3.7	7.5
2,4,6-Trichlorophenol	U	7.5	ug/L	1	10	10.	3.7	7.5
2,4,5-Trichlorophenol	U	20	ug/L	1	25	25.	10.	20.
2,4-Dinitrotoluene	U	7.5	ug/L	1	10	10.	3.7	7.5
Hexachlorobenzene	U	7.5	ug/L	1	10	10.	3.7	7.5
Pentachlorophenol	U	20	ug/L	1	25	25.	10.	20.
2-Fluorophenol		45.1	%					
Phenol-D6		29.6	%					
Nitrobenzene-D5		92.2	%					
2-Fluorobiphenyl		90.3	%					
2,4,6-Tribromophenol		90.9	%					
Terphenyl-D14		73.3	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1630.D
Report Date: 17-Nov-2023 10:36

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1630.D
Lab Smp Id: WG343378-1 Client Smp ID: WG343378-Blank
Inj Date : 18-OCT-2023 16:52
Operator : DT Inst ID: gcms-u.i
Smp Info : WG343378-1
Misc Info : WG344071,WG343378,WG344071-4,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 17-Nov-2023 09:41 gcms-u.i Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47 Cal File: U1622.D
Als bottle: 15 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD5.sub
Target Version: 4.12
Processing Host: TECHN0VA-01

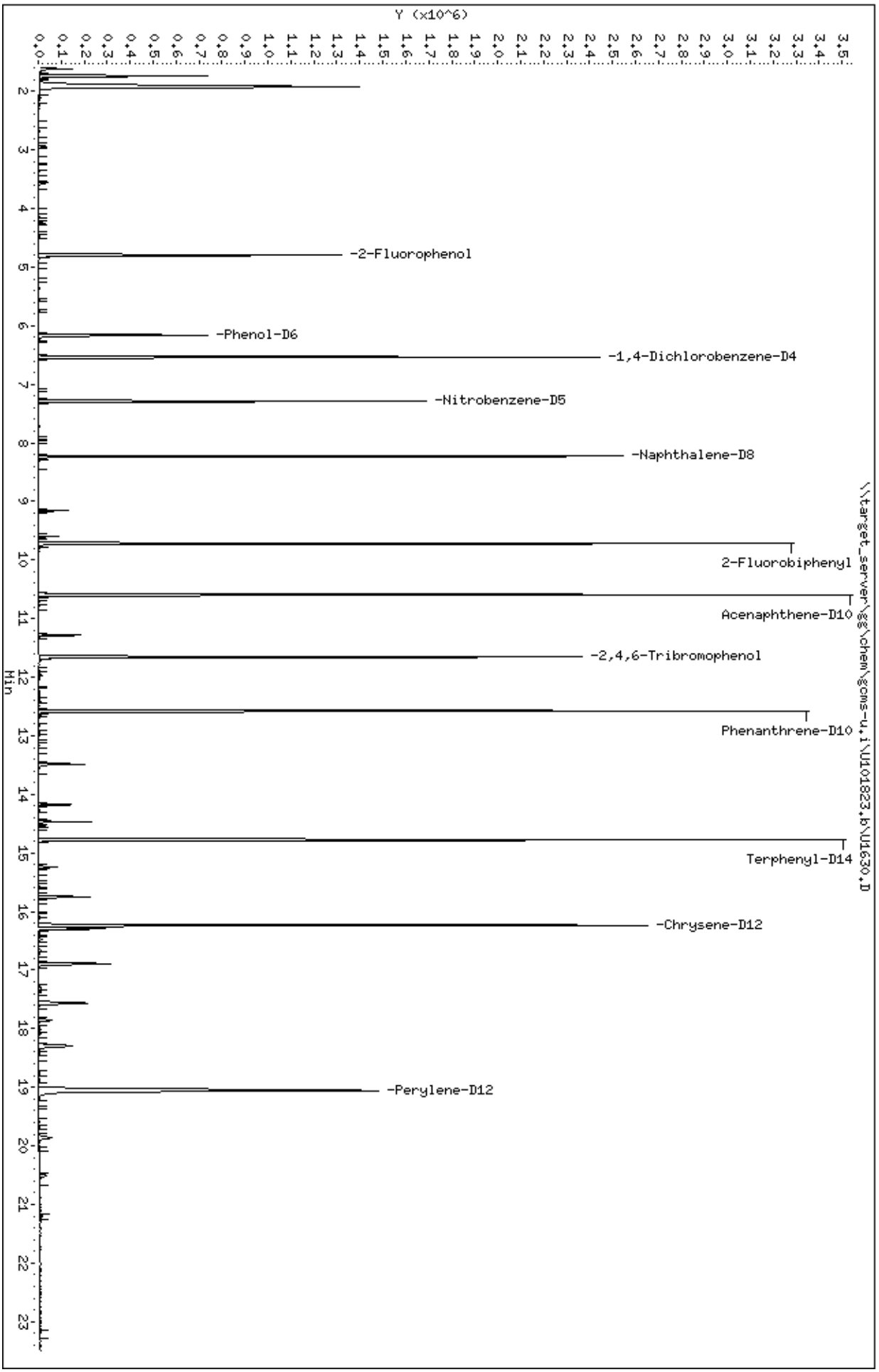
Concentration Formula: Amt * DF * Uf*(Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/L)	REVIEW CODE
$	8 2-Fluorophenol	112	4.794	4.821	(0.734)	663324	45.0849	45.1	
$	12 Phenol-D6	99	6.160	6.187	(0.943)	438581	29.6160	29.6	
*	19 1,4-Dichlorobenzene-D4	152	6.532	6.550	(1.000)	536327	40.0000	(Q)	
$	33 Nitrobenzene-D5	82	7.288	7.326	(0.886)	591210	46.0802	46.1	
*	44 Naphthalene-D8	136	8.230	8.257	(1.000)	1692461	40.0000		
$	63 2-Fluorobiphenyl	172	9.720	9.748	(0.918)	1292635	45.1481	45.1	
*	78 Acenaphthene-D10	164	10.590	10.607	(1.000)	1009667	40.0000		
$	100 2,4,6-Tribromophenol	330	11.666	11.694	(1.102)	357300	90.9114	90.9	
*	114 Phenanthrene-D10	188	12.577	12.615	(1.000)	1644237	40.0000		
$	130 Terphenyl-D14	244	14.781	14.799	(0.910)	1449954	36.6499	36.6	
*	141 Chrysene-D12	240	16.241	16.268	(1.000)	1393063	40.0000		
*	151 Perylene-D12	264	19.056	19.053	(1.000)	1197528	40.0000		

QC Flag Legend

Q - Qualifier signal failed the ratio test.


Data File: \\target_server\gg\chem\gcms-u,i\U101823,b\U1630,D
Date : 18-OCT-2023 16:52
Client ID: WG343378-Blank
Sample Info: WG343378-1
Volume Injected (uL): 1.0
Column phase: Rxi-5VOCms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
Y (x10^6)
Min
-2-Fluorophenol
-Phenol-D6
-1,4-Dichlorobenzene-D4
-Nitrobenzene-D5
-Naphthalene-D8
2-Fluorobiphenyl
Acenaphthene-D10
-2,4,6-Tribromophenol
Phenanthrene-D10
Terphenyl-D14
-Chrysene-D12
-Perylene-D12
\\target_server\gg\chem\gcms-u,i\U101823,b\U1630,D

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ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5109
Lab ID: WG343378-4
Client ID: TCLP Blank
Matrix: AQ
Lab File ID: U1633.D

Sample Date: N/A
Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: 3510C/1311
Lab Prep Batch: WG343378

Report Date: 17-NOV-23
Analysis Date: 18-OCT-23
Analyst: DT
Analysis Method: SW846 8270D
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pyridine	U	38	ug/L	1	10	50.	18.	38.
1,4-Dichlorobenzene	U	38	ug/L	1	10	50.	18.	38.
2-Methylphenol	U	55	ug/L	1	15	75.	28.	55.
3&4-Methylphenol	U	75	ug/L	1	20	100	38.	75.
Hexachloroethane	U	38	ug/L	1	10	50.	18.	38.
Nitrobenzene	U	38	ug/L	1	10	50.	18.	38.
Hexachlorobutadiene	U	38	ug/L	1	10	50.	18.	38.
2,4,6-Trichlorophenol	U	38	ug/L	1	10	50.	18.	38.
2,4,5-Trichlorophenol	U	100	ug/L	1	25	120	50.	100
2,4-Dinitrotoluene	U	38	ug/L	1	10	50.	18.	38.
Hexachlorobenzene	U	38	ug/L	1	10	50.	18.	38.
Pentachlorophenol	U	100	ug/L	1	25	120	50.	100
2-Fluorophenol		43.8	%					
Phenol-D6		30.8	%					
Nitrobenzene-D5		95.0	%					
2-Fluorobiphenyl		94.9	%					
2,4,6-Tribromophenol		96.0	%					
Terphenyl-D14		75.0	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1633.D
Report Date: 17-Nov-2023 10:36

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1633.D
Lab Smp Id: WG343378-4 Client Smp ID: WG343378-TclpBlank
Inj Date : 18-OCT-2023 18:28
Operator : DT Inst ID: gcms-u.i
Smp Info : WG343378-4
Misc Info : WG344071,WG343378,WG344071-4,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 17-Nov-2023 09:41 gcms-u.i Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47 Cal File: U1622.D
Als bottle: 18 QC Sample: TCLPBLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DoDTCLP50.sub
Target Version: 4.12
Processing Host: TECHN0VA-01

Concentration Formula: Amt * DF * Uf*(Vt/Vo)*1000 * CpndVariable

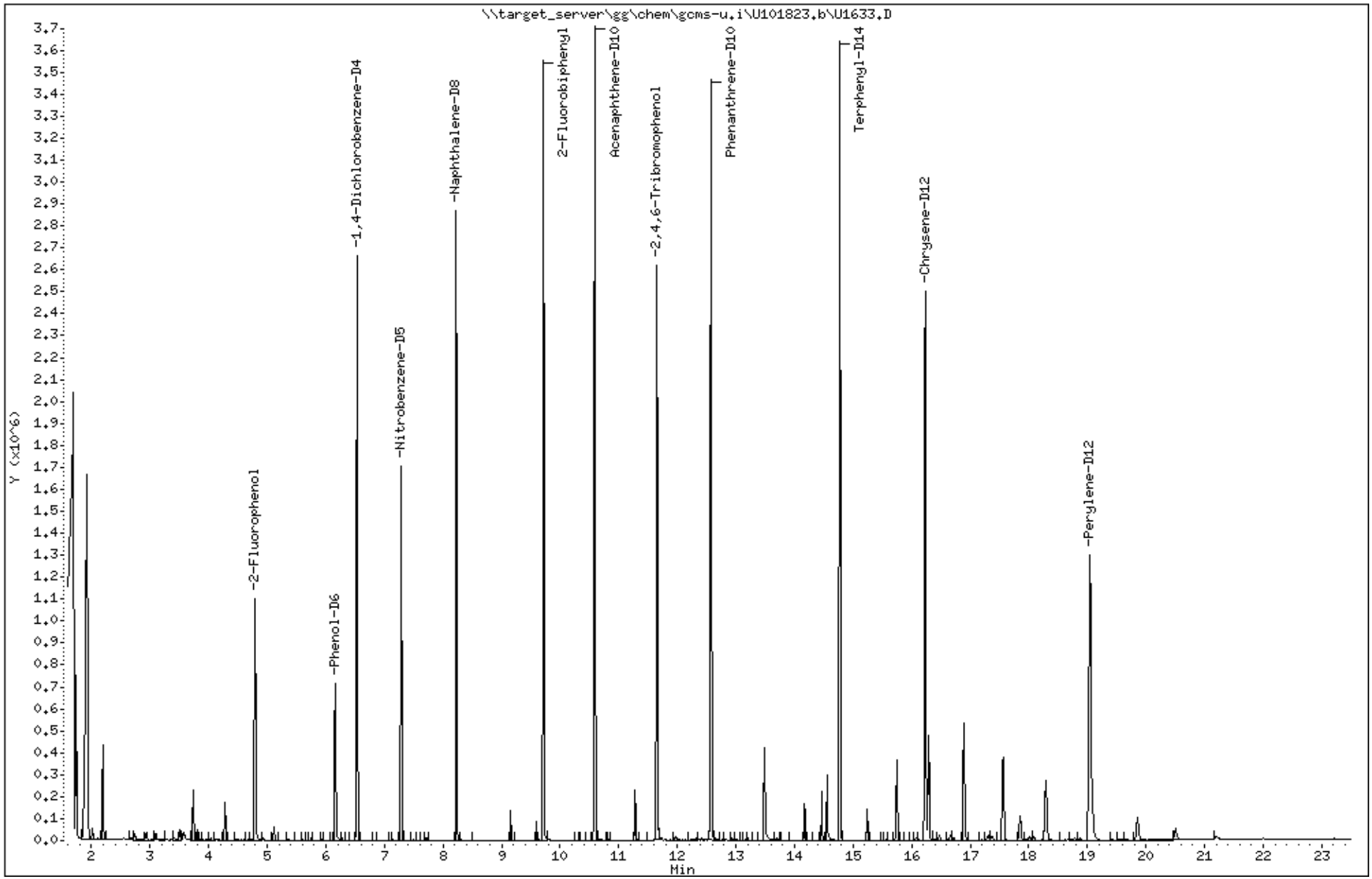
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	0.20000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	4.791	4.821	(0.734)	664761	43.7579	219	
$ 12 Phenol-D6	99	6.157	6.187	(0.943)	470279	30.7551	154	
* 19 1,4-Dichlorobenzene-D4	152	6.530	6.550	(1.000)	553789	40.0000	(Q)	
$ 33 Nitrobenzene-D5	82	7.285	7.326	(0.886)	628683	47.4968	237	
* 44 Naphthalene-D8	136	8.227	8.257	(1.000)	1746058	40.0000		
$ 63 2-Fluorobiphenyl	172	9.718	9.748	(0.918)	1357484	47.4453	237	
* 78 Acenaphthene-D10	164	10.587	10.607	(1.000)	1020286	40.0000		
$ 100 2,4,6-Tribromophenol	330	11.663	11.694	(1.102)	381430	96.0410	480	
* 114 Phenanthrene-D10	188	12.574	12.615	(1.000)	1683295	40.0000		
$ 130 Terphenyl-D14	244	14.779	14.799	(0.910)	1490010	37.5187	188	
* 141 Chrysene-D12	240	16.238	16.268	(1.000)	1398397	40.0000		
* 151 Perylene-D12	264	19.043	19.053	(1.000)	1008382	40.0000		

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1633.D
Date : 18-OCT-2023 18:28
Client ID: WG343378-TclpBlank
Instrument: gcms-u.i
Sample Info: WG343378-4
Volume Injected (uL): 1.0
Operator: DT
Column phase: Rxi-SVOCms
Column diameter: 0.25



Katahdin Analytical Services SQ5109 Page 243 of 681

Katahdin
ANALYTICAL SERVICES

LCS/LCSD Recovery Report

LCS ID: WG343378-2
LCSD ID: WG343378-3
SDG: SQ5109
LCS File ID: U1631.D

Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: SW846 3510C
Lab Prep Batch: WG343378
LCSD File ID: U1632.D

Analysis Date: 18-OCT-23
Analyst: DT
Analysis Method: SW846 8270D
Matrix: AQ
Report Date: 17-NOV-23

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Pyridine	50.0	13.9	27.8	12.3	24.6	ug/L	12	30	10-96
1,4-Dichlorobenzene	50.0	28.5	57.0	31.0	62.0	ug/L	8	30	29-112
2-Methylphenol	100.	62.2	62.2	61.0	61.0	ug/L	2	30	30-117
3&4-Methylphenol	100.	54.3	54.3	51.7	51.7	ug/L	5	30	29-110
Hexachloroethane	50.0	21.7	43.4	25.0	50.0	ug/L	14	30	21-115
Nitrobenzene	50.0	44.2	88.4	41.8	83.6	ug/L	6	30	45-121
Hexachlorobutadiene	50.0	25.4	50.8	27.8	55.6	ug/L	9	30	22-124
2,4,6-Trichlorophenol	100.	83.0	83.0	81.9	81.9	ug/L	1	30	50-125
2,4,5-Trichlorophenol	100.	82.4	82.4	86.4	86.4	ug/L	5	30	53-123
2,4-Dinitrotoluene	50.0	43.7	87.4	45.0	90.0	ug/L	3	30	57-128
Hexachlorobenzene	50.0	41.9	83.8	46.7	93.4	ug/L	11	30	53-125
Pentachlorophenol	100.	80.4	80.4	90.1	90.1	ug/L	11	30	35-138
2-Fluorophenol			42.1		42.1				19-119
Phenol-D6			28.5		29.0				10-90
Nitrobenzene-D5			88.9		93.8				44-120
2-Fluorobiphenyl			87.0		96.3				44-119
2,4,6-Tribromophenol			95.3		99.5				43-140
Terphenyl-D14			98.4		98.8				50-134

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Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1631.D
Lab Smp Id: WG343378-2 Client Smp ID: WG343378-LCS
Inj Date : 18-OCT-2023 17:24
Operator : DT Inst ID: gcms-u.i
Smp Info : WG343378-2
Misc Info : WG344071,WG343378,WG344071-4,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 17-Nov-2023 09:41 gcms-u.i Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47 Cal File: U1622.D
Als bottle: 16 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD5.sub
Target Version: 4.12
Processing Host: TECHN0VA-01

Concentration Formula: Amt * DF * Uf*(Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

EP
11:06 am, Nov 17, 2023

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/L)	REVIEW CODE
	1 1,4-Dioxane	58	2.120	2.182	(0.257)	37706	13.8542	13.8	
	2 N-Nitrosodimethylamine	42	2.513	2.617	(0.385)	74436	17.2460	17.2	
	3 Pyridine	79	2.555	2.627	(0.391)	191457	13.9297	13.9(aM)	M6
	5 2-Picoline	93	3.797	3.828	(0.582)	432393	25.8112	25.8	
	6 N-Nitrosomethylethylamine	88	4.014	4.066	(0.615)	207312	32.6952	32.7	
	7 Methyl Methanesulfonate	80	4.521	4.573	(0.693)	364292	46.0575	46.0	
$	8 2-Fluorophenol	112	4.791	4.821	(0.734)	613143	42.0641	42.1	
	9 N-Nitrosodiethylamine	102	5.070	5.121	(0.777)	317378	44.0022	44.0	
	10 Ethyl Methanesulfonate	79	5.567	5.597	(0.853)	771719	76.3492	76.3	
	11 Benzaldehyde	77	5.939	5.949	(0.910)	286628	179.173	179(AR)	
$	12 Phenol-D6	99	6.157	6.187	(0.943)	417749	28.4732	28.5	
	13 Aniline	93	6.105	6.136	(0.935)	615124	32.3462	32.3	
	14 Phenol	94	6.177	6.208	(0.946)	414633	25.5016	25.5	
	16 Bis(2-Chloroethyl)ether	93	6.240	6.260	(0.956)	506898	41.2316	41.2	
	17 2-Chlorophenol	128	6.271	6.291	(0.960)	1114629	70.4560	70.4	
	18 1,3-Dichlorobenzene	146	6.447	6.467	(0.987)	512178	25.9739	26.0	
*	19 1,4-Dichlorobenzene-D4	152	6.529	6.550	(1.000)	531356	40.0000	(Q)	
	20 1,4-Dichlorobenzene	146	6.560	6.570	(1.005)	521665	28.5382	28.5	
	21 Benzyl alcohol	108	6.778	6.819	(1.038)	258203	26.1015	26.1	
	22 1,2-Dichlorobenzene	146	6.747	6.767	(1.033)	516743	26.7040	26.7	
	23 Bis(2-Chloroisopropyl)ether	45	6.954	6.974	(1.065)	340110	30.3156	30.3(Q)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1631.D
Report Date: 17-Nov-2023 10:36

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	24	2,2'-Oxybis(1-chloropropane)	45	6.954	6.974	(1.065)	340110	30.3274	30.3(Q)	
	25	2-Methylphenol	108	6.974	7.046	(1.068)	861112	62.1799	62.2	
	26	Acetophenone	105	7.109	7.140	(0.863)	1493434	78.7303	78.7	
	27	N-Nitrosopyrrolidine	100	7.109	7.191	(1.089)	201560	24.6535	24.6(Q)	
	28	N-Nitrosomorpholine	56	7.161	7.222	(1.097)	160756	33.8916	33.9	
	29	N-Nitroso-di-n-propylamine	70	7.150	7.202	(1.095)	296735	37.0130	37.0(Q)	
	30	3&4-Methylphenol	108	7.192	7.243	(1.101)	722985	54.2962	54.3	
	31	o-Toluidine	106	7.150	7.181	(1.095)	715537	36.9619	37.0	
	32	Hexachloroethane	117	7.192	7.212	(1.101)	168793	21.7499	21.7	
$	33	Nitrobenzene-D5	82	7.295	7.326	(0.886)	548852	44.4698	44.5	
	34	Nitrobenzene	77	7.326	7.357	(0.889)	523788	44.2115	44.2	
	35	N-Nitrosopiperidine	114	7.533	7.574	(0.915)	318972	41.4960	41.5	
	36	Isophorone	82	7.678	7.698	(0.932)	907954	40.0293	40.0	
	37	2-Nitrophenol	139	7.751	7.771	(0.941)	719889	77.3957	77.4	
	38	2,4-Dimethylphenol	107	7.885	7.916	(0.957)	966264	91.2637	91.3	
	39	O,O,O-Triethylphosphorothioat	198	7.968	7.999	(0.967)	298062	39.7524	39.8	
	40	Bis(2-Chloroethoxy)methane	93	7.989	8.019	(0.970)	780727	46.4271	46.4	
	42	2,4-Dichlorophenol	162	8.392	8.423	(1.019)	974039	89.6281	89.6	
	43	1,2,4-Trichlorobenzene	180	8.175	8.195	(0.992)	427504	29.3605	29.4	
*	44	Naphthalene-D8	136	8.237	8.257	(1.000)	1628100	40.0000		
	45	Naphthalene	128	8.268	8.288	(1.004)	1411450	36.3731	36.4	
	46	alpha-Terpineol	59	8.341	8.371	(1.013)	328928	45.3056	45.3	
	47	4-Chloroaniline	127	8.382	8.413	(1.018)	581562	33.3414	33.3	
	48	2,6-Dichlorophenol	162	8.392	8.423	(1.019)	974039	89.6281	89.6	
	49	Hexachloropropene	213	8.392	8.402	(1.019)	241102	24.0862	24.1	
	50	Hexachlorobutadiene	225	8.465	8.475	(1.028)	221911	25.4390	25.4	
	52	N-Nitroso-Di-N-Butylamine	84	8.879	8.909	(1.078)	365098	43.0285	43.0(H)	
	54	Caprolactam	113	8.931	9.023	(1.084)	26505	6.48346	6.48(aRH)	
	55	4-Chloro-3-Methylphenol	107	9.096	9.147	(1.104)	841603	91.5720	91.6(Q)	
	56	Isosafrole	162	9.127	9.147	(1.108)	465122	38.6478	38.6	
	57	2-Methylnaphthalene	142	9.200	9.220	(1.117)	976265	36.3593	36.4	
	58	1-Methylnaphthalene	142	9.334	9.354	(1.133)	944922	36.0462	36.0	
	59	1,2,4,5-Tetrachlorobenzene	216	9.438	9.448	(0.891)	822843	68.9675	69.0	
	60	Hexachlorocyclopentadiene	237	9.427	9.437	(0.890)	144973	19.5539	19.6	
	61	2,4,6-Trichlorophenol	196	9.614	9.644	(0.907)	775764	83.0340	83.0	
	62	2,4,5-Trichlorophenol	196	9.676	9.717	(0.913)	827576	82.3927	82.4	
$	63	2-Fluorobiphenyl	172	9.728	9.748	(0.918)	1218253	43.5039	43.5	
	64	Safrole	104	9.821	9.851	(0.927)	182611	39.2725	39.3(Q)	
	65	1,1'-Biphenyl	154	9.852	9.882	(0.930)	1039582	39.2082	39.2	
	66	2-Chloronaphthalene	127	9.852	9.882	(0.930)	384640	31.2810	31.3(QH)	
	67	1-Chloronaphthalene	127	9.872	9.903	(0.932)	384267	41.8394	41.8(Q)	
	69	2-Nitroaniline	65	10.028	10.048	(0.946)	263759	39.8353	39.8	
	70	1,4-Naphthoquinone	158	10.110	10.120	(0.954)	476590	72.3033	72.3	
	72	Dimethyl Phthalate	163	10.317	10.358	(0.974)	1229127	41.8258	41.8	
	73	1,3-Dinitrobenzene	168	10.328	10.379	(0.975)	232931	43.9401	43.9	
	74	2,6-Dinitrotoluene	165	10.369	10.410	(0.979)	342112	47.7944	47.8(Q)	
	75	Acenaphthylene	152	10.400	10.421	(0.981)	1478118	39.2129	39.2	
	77	3-Nitroaniline	138	10.587	10.648	(0.999)	334250	40.3376	40.3	
*	78	Acenaphthene-D10	164	10.597	10.607	(1.000)	979492	40.0000		
	79	Acenaphthene	153	10.638	10.659	(1.004)	931990	39.0694	39.1	
	80	2,4-Dinitrophenol	184	10.731	10.793	(1.013)	232584	45.0999	45.1	
	81	Pentachlorobenzene	250	10.825	10.845	(1.021)	461910	41.2356	41.2	
	82	4-Nitrophenol	109	10.938	10.979	(1.032)	103689	24.1963	24.2(aQ)	
	83	Dibenzofuran	168	10.876	10.897	(1.026)	1460641	40.6081	40.6	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1631.D
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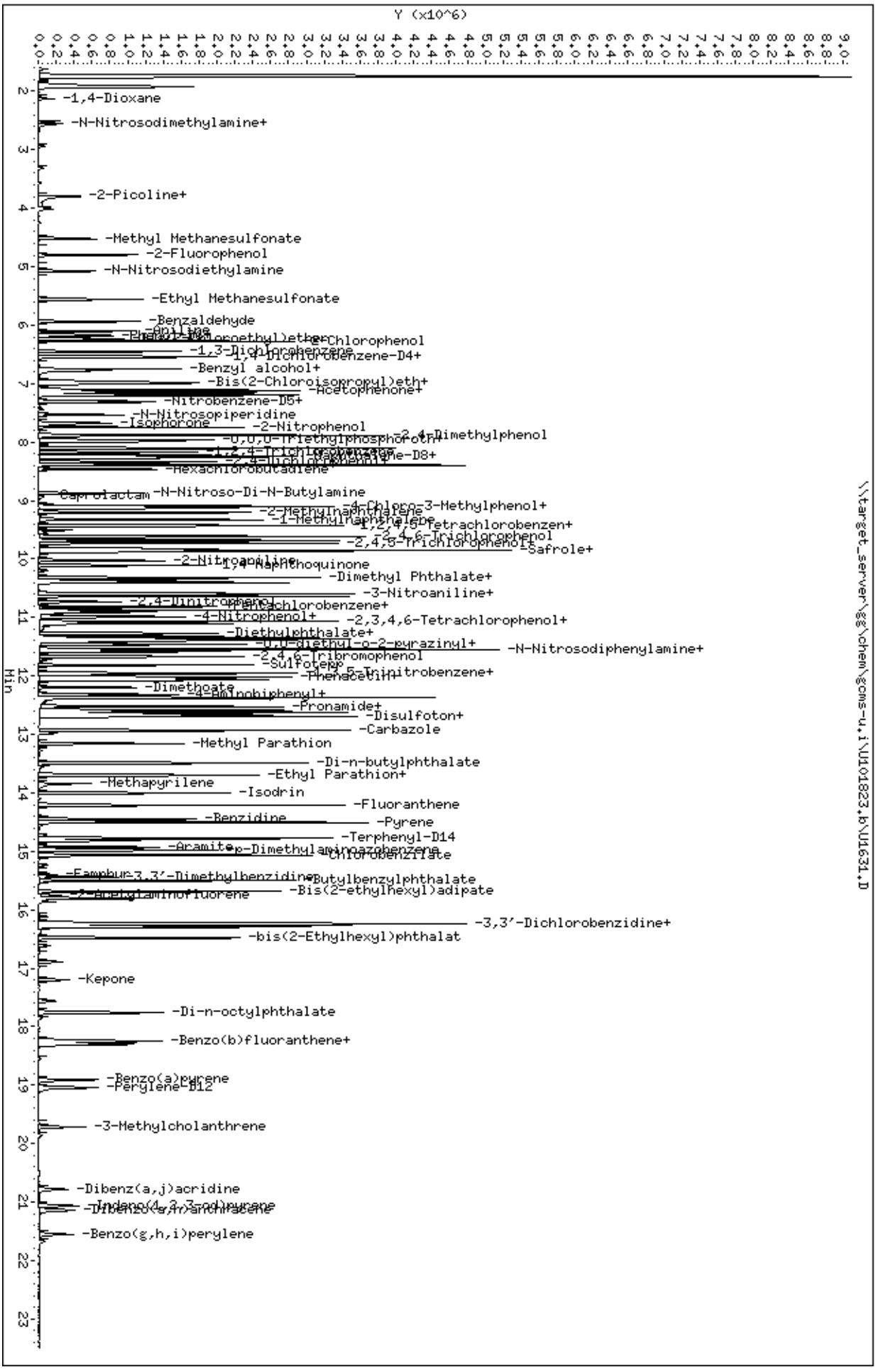
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
84	2,4-Dinitrotoluene	165	10.907	10.969	(1.029)	449215	43.7416	43.7	
85	1-Naphthylamine	143	10.990	11.021	(1.037)	760608	28.2821	28.3	
87	2,3,4,6-Tetrachlorophenol	232	11.073	11.104	(1.045)	613962	81.0337	81.0	
88	2-Naphthylamine	143	11.104	11.145	(1.048)	821809	30.6279	30.6	
89	Diethylphthalate	149	11.280	11.311	(1.064)	1356983	45.5786	45.6	
90	O,O-diethyl-o-2-pyrazinylphos	107	11.384	11.424	(1.074)	252171	49.1625	49.2	
91	Thionazin	107	11.384	11.424	(1.074)	252171	49.1625	49.2	
92	Fluorene	166	11.332	11.362	(1.069)	1180335	42.0979	42.1	
93	4-Chlorophenyl-phenylether	204	11.373	11.393	(1.073)	600642	43.1849	43.2	
94	5-Nitro-O-Toluidine	152	11.404	11.456	(1.076)	467682	46.9293	46.9(Q)	
95	4-Nitroaniline	138	11.435	11.507	(1.079)	374629	43.8410	43.8	
96	4,6-Dinitro-2-Methylphenol	198	11.466	11.518	(0.910)	507177	82.5315	82.5	
97	N-Nitrosodiphenylamine	169	11.549	11.580	(0.917)	1803554	84.2119	84.2	
98	1,2-Diphenylhydrazine	77	11.580	11.600	(0.919)	975312	41.9417	41.9	
99	Azobenzene	77	11.580	11.600	(0.919)	975312	41.9417	41.9	
$ 100	2,4,6-Tribromophenol	330	11.673	11.694	(1.102)	363285	95.2818	95.3	
101	Sulfotepp	97	11.818	11.839	(0.938)	214292	44.6658	44.7	
102	1,3,5-Trinitrobenzene	213	11.984	12.066	(0.952)	163940	49.7704	49.8(Q)	
103	Diallate	86	11.953	11.973	(0.949)	368889	51.6382	51.6	
104	Phorate	75	11.953	11.983	(0.949)	765615	46.2657	46.3	
105	Phenacetin	108	12.036	12.118	(0.956)	603561	44.1820	44.2	
106	4-Bromophenyl-phenylether	248	12.025	12.046	(0.955)	365126	42.1614	42.2	
107	Hexachlorobenzene	284	12.067	12.097	(0.958)	366883	41.9500	41.9	
108	Dimethoate	87	12.201	12.253	(0.969)	362497	49.2706	49.3	
109	Atrazine	200	12.315	12.356	(0.978)	308930	52.8431	52.8(H)	
110	4-Aminobiphenyl	169	12.388	12.418	(0.984)	1000146	39.4157	39.4	
111	Pentachlorophenol	266	12.367	12.397	(0.982)	490650	80.3648	80.4	
112	Pentachloronitrobenzene	237	12.367	12.387	(0.982)	172920	43.7626	43.8	
113	Pronamide	173	12.522	12.563	(0.994)	626302	41.5196	41.5	
* 114	Phenanthrene-D10	188	12.595	12.615	(1.000)	1734401	40.0000		
115	Disulfoton	88	12.667	12.698	(1.006)	598788	42.6756	42.7	
116	Phenanthrene	178	12.626	12.656	(1.002)	1746040	47.7136	47.7	
117	Dinoseb	211	12.657	12.687	(1.005)	410701	51.0249	51.0	
118	Anthracene	178	12.688	12.729	(1.007)	1698879	41.9309	41.9	
119	Carbazole	167	12.936	12.967	(1.027)	1740496	41.0112	41.0	
120	Methyl Parathion	109	13.153	13.174	(1.044)	364037	51.3092	51.3	
121	Di-n-butylphthalate	149	13.495	13.515	(1.071)	2344538	48.4807	48.5	
122	Ethyl Parathion	291	13.702	13.733	(1.088)	144591	47.9252	47.9(Q)	
123	Parathion	291	13.702	13.733	(1.088)	144591	47.9252	47.9(Q)	
124	4-Nitroquinoline-1-Oxide	190	13.692	13.712	(1.087)	181659	53.6959	53.7	
125	Methapyrilene	97	13.837	13.877	(1.099)	270200	27.1341	27.1	
126	Isodrin	193	14.002	14.012	(1.112)	230668	38.2740	38.3	
127	Fluoranthene	202	14.209	14.240	(1.128)	1891408	41.7330	41.7	
128	Pyrene	202	14.509	14.530	(0.893)	1934773	46.1689	46.2	
129	Benzidine	184	14.447	14.467	(0.889)	1195547	104.644	105	
$ 130	Terphenyl-D14	244	14.778	14.799	(0.910)	1514086	49.2019	49.2	
131	Aramite	185	14.923	14.933	(0.918)	190386	66.9464	66.9(R)	
132	p-Dimethylaminoazobenzene	225	14.985	15.006	(0.922)	429831	45.8837	45.9	
133	Chlorobenzilate	251	15.068	15.088	(0.927)	632255	46.5382	46.5	
135	3,3'-Dimethylbenzidine	212	15.441	15.451	(0.950)	463716	58.7486	58.7	
136	Butylbenzylphthalate	149	15.503	15.513	(0.954)	1063519	46.9854	47.0	
137	Bis(2-ethylhexyl)adipate	129	15.689	15.709	(0.966)	901310	44.5796	44.6	
138	2-Acetylaminofluorene	181	15.803	15.834	(0.973)	443098	37.9427	37.9	
139	3,3'-Dichlorobenzidine	252	16.248	16.258	(1.000)	742208	110.424	110	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1631.D
Report Date: 17-Nov-2023 10:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
	140 Benzo(a)anthracene	228	16.227	16.248	(0.999)	1521464	45.2888	45.3	
*	141 Chrysene-D12	240	16.248	16.268	(1.000)	1083573	40.0000		
	142 Chrysene	228	16.290	16.310	(1.003)	1397228	45.4309	45.4	
	143 bis(2-Ethylhexyl)phthalate	149	16.476	16.496	(1.014)	1459925	48.2091	48.2	
	145 Di-n-octylphthalate	149	17.759	17.769	(0.933)	1697087	50.2549	50.2	
	146 Benzo(b)fluoranthene	252	18.246	18.256	(0.958)	799628	46.8488	46.8	
	148 7,12-Dimethylbenz(A)Anthracen	256	18.256	18.276	(0.959)	375827	43.0541	43.0	
	149 Benzo(k)fluoranthene	252	18.297	18.328	(0.961)	725460	43.9733	44.0(H)	
	150 Benzo(a)pyrene	252	18.908	18.928	(0.993)	555677	42.1982	42.2	
*	151 Perylene-D12	264	19.043	19.053	(1.000)	464142	40.0000		
	152 3-Methylcholanthrene	268	19.715	19.736	(1.035)	245115	41.3339	41.3	
	153 Dibenz(a,j)acridine	279	20.781	20.802	(1.091)	270285	43.1982	43.2	
	154 Indeno(1,2,3-cd)pyrene	276	21.061	21.081	(1.106)	332024	46.3194	46.3	
	155 Dibenzo(a,h)anthracene	278	21.144	21.164	(1.110)	339800	47.6226	47.6	
	156 Benzo(g,h,i)perylene	276	21.558	21.578	(1.132)	345465	48.3719	48.4	
M	157 Total PAHs	100				20210926	772.759	773	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101823,b\U1631,D
Date : 18-OCT-2023 17:24
Client ID: WG343378-LCS
Sample Info: WG343378-2
Volume Injected (uL): 1.0
Column phase: Rxi-5ViMS
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101823,b\U1631,D
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Aniline
-Phenol-d6
-Bis(2-chloroethyl)ether
-2-Chlorophenol
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-Bis(2-Chloroisopropyl)eth+
-Acetophenone+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-O,O,O-Triethylphosphorothi+
-1,2,4-Trichlorobenzene
-Naphthalene-D8+
-2,4-Dichlorophenol
-Hexachlorobutadiene
-Caprolactam
-N-Nitroso-Di-N-Butylamine
-4-Chloro-3-Methylphenol+
-2-Methylnaphthalene
-1-Methylnaphthalene
-1,2,4,5-Tetrachlorobenzen+
-2,4,6-Trichlorophenol
-2,4,5-Trichlorophenol
-Safrole+
-2-Nitroaniline
-1,4-Naphthoquinone
-Dimethyl Phthalate+
-3-Nitroaniline+
-2,4-Dinitrophenol
-Pentachlorobenzene+
-4-Nitrophenol+
-2,3,4,6-Tetrachlorophenol+
-Diethylphthalate+
-O,O-diethyl-o-2-pyrazinyl+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-Sulfotepp
-1,3,5-Trinitrobenzene+
-Phenacetin
-Dimethoate
-4-Aminobiphenyl+
-Pronamide+
-Disulfoton+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Fampur-3,3'-Dimethylbenzidine
-Butylbenzylphthalate
-2-Acetylaminofluorene
-Bis(2-ethylhexyl)adipate
-3,3'-Dichlorobenzidine+
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene
-Dibenz(a,h)anthracene
-Benzo(g,h,i)perylene

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1632.D
Report Date: 17-Nov-2023 10:36

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1632.D
Lab Smp Id: WG343378-3 Client Smp ID: WG343378-LCSD
Inj Date : 18-OCT-2023 17:56
Operator : DT Inst ID: gcms-u.i
Smp Info : WG343378-3
Misc Info : WG344071,WG343378,WG344071-4,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 17-Nov-2023 09:41 gcms-u.i Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47 Cal File: U1622.D
Als bottle: 17 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD5.sub
Target Version: 4.12
Processing Host: TECHN0VA-01

Concentration Formula: Amt * DF * Uf*(Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

EP
11:06 am, Nov 17, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
	1 1,4-Dioxane	58	2.113	2.182	(0.256)	38393	13.6833	13.7	
	2 N-Nitrosodimethylamine	42	2.517	2.617	(0.385)	81583	18.8148	18.8	
	3 Pyridine	79	2.548	2.627	(0.390)	170028	12.3137	12.3(aM)	M6
	5 2-Picoline	93	3.800	3.828	(0.582)	188613	11.2072	11.2(R)	
	6 N-Nitrosomethylethylamine	88	4.007	4.066	(0.613)	203908	32.0103	32.0	
	7 Methyl Methanesulfonate	80	4.514	4.573	(0.691)	363898	45.7958	45.8	
$	8 2-Fluorophenol	112	4.794	4.821	(0.734)	616539	42.1023	42.1	
	9 N-Nitrosodiethylamine	102	5.073	5.121	(0.777)	305948	42.2222	42.2	
	10 Ethyl Methanesulfonate	79	5.560	5.597	(0.851)	691979	68.1450	68.1	
	11 Benzaldehyde	77	5.943	5.949	(0.910)	344400	242.221	242(AR)	
$	12 Phenol-D6	99	6.160	6.187	(0.943)	428242	29.0539	29.0	
	13 Aniline	93	6.108	6.136	(0.935)	411404	21.5340	21.5(a)	
	14 Phenol	94	6.181	6.208	(0.946)	434826	26.6204	26.6	
	16 Bis(2-Chloroethyl)ether	93	6.232	6.260	(0.954)	526568	42.6343	42.6	
	17 2-Chlorophenol	128	6.274	6.291	(0.960)	1129622	71.0749	71.1	
	18 1,3-Dichlorobenzene	146	6.450	6.467	(0.987)	572935	29.3685	29.4	
*	19 1,4-Dichlorobenzene-D4	152	6.533	6.550	(1.000)	533814	40.0000	(Q)	
	20 1,4-Dichlorobenzene	146	6.553	6.570	(1.003)	563695	30.9629	31.0	
	21 Benzyl alcohol	108	6.781	6.819	(1.038)	246245	24.7780	24.8	
	22 1,2-Dichlorobenzene	146	6.750	6.767	(1.033)	582744	30.6073	30.6	
	23 Bis(2-Chloroisopropyl)ether	45	6.957	6.974	(1.065)	363455	32.2473	32.2(QH)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1632.D
Report Date: 17-Nov-2023 10:36

EP
11:06 am, Nov 17, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
	24 2,2'-Oxybis(1-chloropropane)	45	6.957	6.974	(1.065)	363455	32.2598	32.2(QH)	
	25 2-Methylphenol	108	6.978	7.046	(1.068)	848170	60.9634	61.0	
	26 Acetophenone	105	7.112	7.140	(0.863)	1535488	78.5178	78.5	
	27 N-Nitrosopyrrolidine	100	7.112	7.191	(1.089)	200806	24.3990	24.4(Q)	
	28 N-Nitrosomorpholine	56	7.154	7.222	(1.095)	162406	34.0818	34.1	
	29 N-Nitroso-di-n-propylamine	70	7.154	7.202	(1.095)	307786	38.4648	38.5(Q)	
	30 3&4-Methylphenol	108	7.185	7.243	(1.100)	691546	51.6960	51.7	
	31 o-Toluidine	106	7.154	7.181	(1.095)	416392	21.4102	21.4(a)	
	32 Hexachloroethane	117	7.195	7.212	(1.101)	190737	24.9646	25.0	
$	33 Nitrobenzene-D5	82	7.299	7.326	(0.886)	596630	46.8901	46.9	
	34 Nitrobenzene	77	7.319	7.357	(0.888)	510475	41.7946	41.8	
	35 N-Nitrosopiperidine	114	7.537	7.574	(0.915)	346706	43.7502	43.8	
	36 Isophorone	82	7.681	7.698	(0.932)	973431	41.6280	41.6	
	37 2-Nitrophenol	139	7.754	7.771	(0.941)	806693	84.1251	84.1	
	38 2,4-Dimethylphenol	107	7.888	7.916	(0.957)	1024340	93.8453	93.8	
	39 O,O,O-Triethylphosphorothioat	198	7.971	7.999	(0.967)	312979	40.4891	40.5	
	40 Bis(2-Chloroethoxy)methane	93	7.992	8.019	(0.970)	811315	46.7980	46.8	
	42 2,4-Dichlorophenol	162	8.385	8.423	(1.018)	1059511	94.6968	94.7	
	43 1,2,4-Trichlorobenzene	180	8.178	8.195	(0.992)	481279	32.3501	32.4	
*	44 Naphthalene-D8	136	8.240	8.257	(1.000)	1678476	40.0000		
	45 Naphthalene	128	8.261	8.288	(1.002)	1548974	39.4661	39.5	
	46 alpha-Terpineol	59	8.344	8.371	(1.013)	349344	46.6735	46.7	
	47 4-Chloroaniline	127	8.385	8.413	(1.018)	364049	17.5940	17.6	
	48 2,6-Dichlorophenol	162	8.385	8.423	(1.018)	1059511	94.6968	94.7	
	49 Hexachloropropene	213	8.385	8.402	(1.018)	262810	25.6087	25.6	
	50 Hexachlorobutadiene	225	8.458	8.475	(1.026)	247381	27.7840	27.8	
	52 N-Nitroso-Di-N-Butylamine	84	8.882	8.909	(1.078)	392257	44.9913	45.0	
	54 Caprolactam	113	8.934	9.023	(1.084)	28669	6.80233	6.80(aRH)	
	55 4-Chloro-3-Methylphenol	107	9.099	9.147	(1.104)	891902	95.3629	95.4(Q)	
	56 Isosafrole	162	9.120	9.147	(1.107)	487116	39.2605	39.3	
	57 2-Methylnaphthalene	142	9.203	9.220	(1.117)	1042801	37.8337	37.8	
	58 1-Methylnaphthalene	142	9.327	9.354	(1.132)	1000208	37.2133	37.2	
	59 1,2,4,5-Tetrachlorobenzene	216	9.431	9.448	(0.891)	880736	74.4427	74.4	
	60 Hexachlorocyclopentadiene	237	9.431	9.437	(0.891)	171964	23.5363	23.5	
	61 2,4,6-Trichlorophenol	196	9.617	9.644	(0.908)	768548	81.8674	81.9	
	62 2,4,5-Trichlorophenol	196	9.679	9.717	(0.914)	872025	86.4019	86.4	
$	63 2-Fluorobiphenyl	172	9.731	9.748	(0.919)	1324629	48.1570	48.2	
	64 Safrole	104	9.824	9.851	(0.928)	200796	42.9765	43.0(Q)	
	65 1,1'-Biphenyl	154	9.855	9.882	(0.931)	1143173	42.9085	42.9	
	66 2-Chloronaphthalene	127	9.855	9.882	(0.931)	448982	36.3386	36.3(M)	M3
	67 1-Chloronaphthalene	127	9.876	9.903	(0.933)	344081	37.2843	37.3(M)	M6
	69 2-Nitroaniline	65	10.021	10.048	(0.946)	263409	39.5918	39.6(Q)	
	70 1,4-Naphthoquinone	158	10.114	10.120	(0.955)	514744	77.7174	77.7(R)	
	72 Dimethyl Phthalate	163	10.321	10.358	(0.975)	1347306	45.6276	45.6	
	73 1,3-Dinitrobenzene	168	10.321	10.379	(0.975)	242522	45.5301	45.5	
	74 2,6-Dinitrotoluene	165	10.372	10.410	(0.979)	342198	47.5773	47.6(Q)	
	75 Acenaphthylene	152	10.393	10.421	(0.981)	1588932	41.9506	42.0	
	77 3-Nitroaniline	138	10.579	10.648	(0.999)	303310	36.4283	36.4	
*	78 Acenaphthene-D10	164	10.590	10.607	(1.000)	984209	40.0000		
	79 Acenaphthene	153	10.642	10.659	(1.005)	1037990	44.1378	44.1	
	80 2,4-Dinitrophenol	184	10.735	10.793	(1.014)	362261	69.9087	69.9	
	81 Pentachlorobenzene	250	10.818	10.845	(1.022)	490009	43.5344	43.5	
	82 4-Nitrophenol	109	10.931	10.979	(1.032)	106580	24.9538	25.0(Q)	
	83 Dibenzofuran	168	10.880	10.897	(1.027)	1563637	44.2433	44.2	

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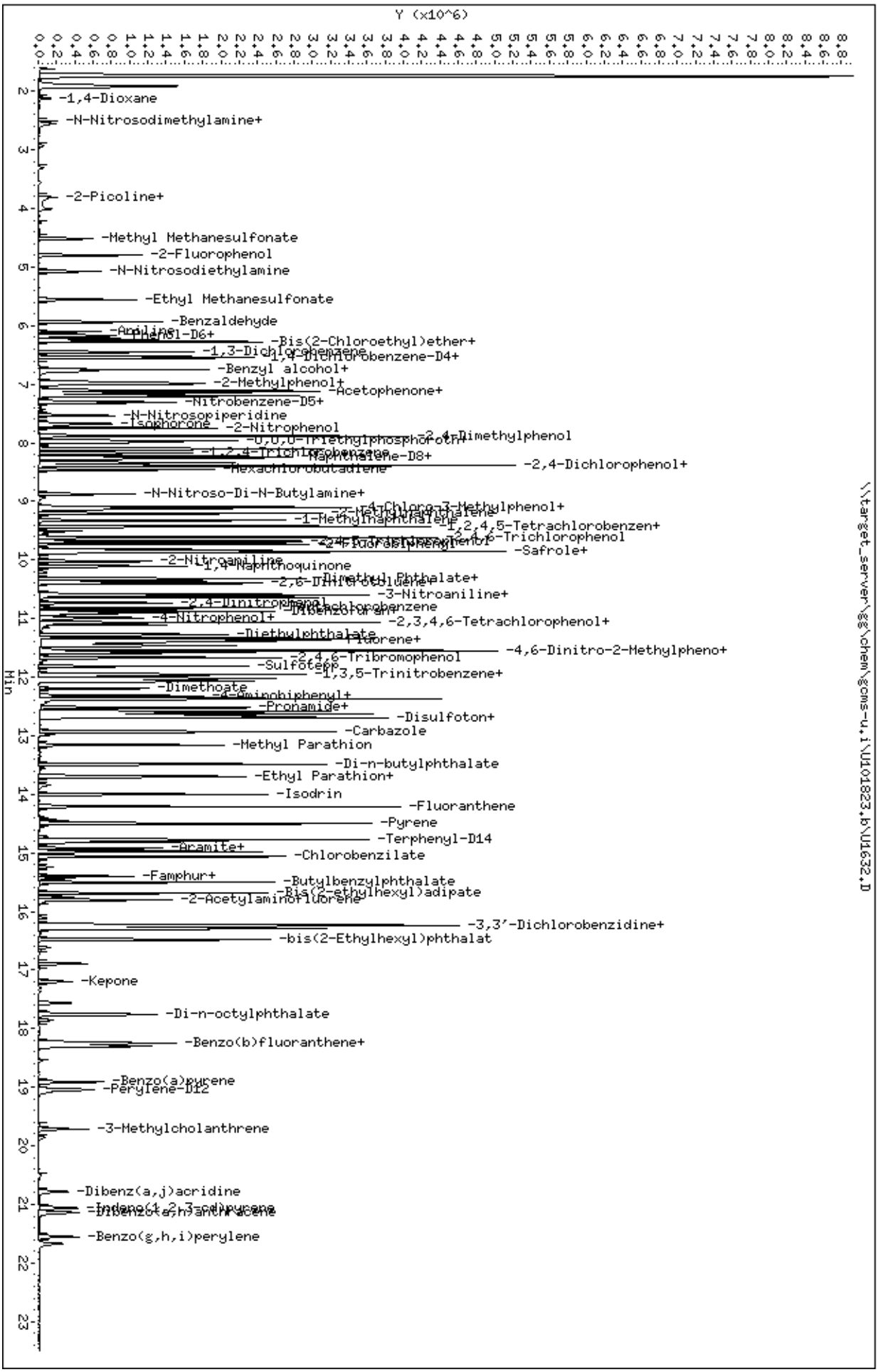
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
84	2,4-Dinitrotoluene	165	10.911	10.969	(1.030)	464321	44.9958	45.0	
85	1-Naphthylamine	143	10.993	11.021	(1.038)	545856	20.1996	20.2	
87	2,3,4,6-Tetrachlorophenol	232	11.066	11.104	(1.045)	654432	85.9611	86.0	
88	2-Naphthylamine	143	11.107	11.145	(1.049)	614209	21.7016	21.7	
89	Diethylphthalate	149	11.273	11.311	(1.065)	1417741	47.3912	47.4	
90	O,O-diethyl-o-2-pyrazinylphos	107	11.376	11.424	(1.074)	259894	50.4254	50.4(H)	
91	Thionazin	107	11.376	11.424	(1.074)	259894	50.4254	50.4(H)	
92	Fluorene	166	11.335	11.362	(1.070)	1263328	44.8419	44.8	
93	4-Chlorophenyl-phenylether	204	11.366	11.393	(1.073)	608500	43.5402	43.5	
94	5-Nitro-O-Toluidine	152	11.397	11.456	(1.076)	465525	46.4890	46.5(Q)	
95	4-Nitroaniline	138	11.428	11.507	(1.079)	363891	42.3803	42.4	
96	4,6-Dinitro-2-Methylphenol	198	11.470	11.518	(0.911)	581288	96.2400	96.2	
97	N-Nitrosodiphenylamine	169	11.552	11.580	(0.918)	1971906	98.4838	98.5	
98	1,2-Diphenylhydrazine	77	11.583	11.600	(0.920)	1017868	44.5347	44.5	
99	Azobenzene	77	11.583	11.600	(0.920)	1017868	44.5347	44.5	
$ 100	2,4,6-Tribromophenol	330	11.666	11.694	(1.102)	381094	99.4737	99.5	
101	Sulfotepp	97	11.811	11.839	(0.938)	218906	46.7819	46.8	
102	1,3,5-Trinitrobenzene	213	11.987	12.066	(0.952)	174870	54.0139	54.0(Q)	
103	Diallate	86	11.946	11.973	(0.949)	383626	55.3467	55.3	
104	Phorate	75	11.956	11.983	(0.950)	531831	32.6984	32.7(H)	
105	Phenacetin	108	12.039	12.118	(0.956)	564559	42.0472	42.0	
106	4-Bromophenyl-phenylether	248	12.018	12.046	(0.955)	386416	46.1996	46.2	
107	Hexachlorobenzene	284	12.070	12.097	(0.959)	396322	46.6776	46.7	
108	Dimethoate	87	12.194	12.253	(0.969)	412332	57.0210	57.0	
109	Atrazine	200	12.318	12.356	(0.979)	282169	49.1068	49.1(H)	
110	4-Aminobiphenyl	169	12.380	12.418	(0.984)	826969	33.1588	33.2	
111	Pentachlorophenol	266	12.370	12.397	(0.983)	540490	90.0711	90.1	
112	Pentachloronitrobenzene	237	12.360	12.387	(0.982)	183317	47.2024	47.2	
113	Pronamide	173	12.525	12.563	(0.995)	689368	47.8565	47.8	
* 114	Phenanthrene-D10	188	12.587	12.615	(1.000)	1704690	40.0000		
115	Disulfoton	88	12.670	12.698	(1.007)	635138	46.0553	46.0	
116	Phenanthrene	178	12.618	12.656	(1.002)	1735319	48.3908	48.4(H)	
117	Dinoseb	211	12.650	12.687	(1.005)	432054	54.6133	54.6	
118	Anthracene	178	12.691	12.729	(1.008)	1755945	44.8737	44.9	
119	Carbazole	167	12.939	12.967	(1.028)	1862682	46.6577	46.6	
120	Methyl Parathion	109	13.157	13.174	(1.045)	441082	63.2518	63.2	
121	Di-n-butylphthalate	149	13.488	13.515	(1.072)	2444975	53.1770	53.2	
122	Ethyl Parathion	291	13.705	13.733	(1.089)	153742	51.8465	51.8(Q)	
123	Parathion	291	13.705	13.733	(1.089)	153742	51.8465	51.8(Q)	
124	4-Nitroquinoline-1-Oxide	190	13.685	13.712	(1.087)	205863	61.9109	61.9	
125	Methapyrilene	97	13.695	13.877	(1.088)	310286	31.7028	31.7(Q)	
126	Isodrin	193	13.995	14.012	(1.112)	246049	42.3940	42.4	
127	Fluoranthene	202	14.212	14.240	(1.129)	1915159	43.7224	43.7	
128	Pyrene	202	14.502	14.530	(0.892)	2051813	49.4225	49.4	
$ 130	Terphenyl-D14	244	14.782	14.799	(0.910)	1505336	49.3778	49.4	
131	Aramite	185	14.916	14.933	(0.918)	201785	71.6223	71.6(R)	
132	p-Dimethylaminoazobenzene	225	14.978	15.006	(0.922)	450522	48.5449	48.5	
133	Chlorobenzilate	251	15.071	15.088	(0.927)	692179	51.4283	51.4	
135	3,3'-Dimethylbenzidine	212	15.434	15.451	(0.950)	174519	22.3180	22.3	
136	Butylbenzylphthalate	149	15.506	15.513	(0.954)	1120403	49.9642	50.0	
137	Bis(2-ethylhexyl)adipate	129	15.682	15.709	(0.965)	940719	46.9666	47.0	
138	2-Acetylaminofluorene	181	15.806	15.834	(0.973)	487995	42.1804	42.2	
139	3,3'-Dichlorobenzidine	252	16.251	16.258	(1.000)	763648	117.623	118	
140	Benzo(a)anthracene	228	16.231	16.248	(0.999)	1564869	47.0191	47.0	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1632.D
Report Date: 17-Nov-2023 10:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
*	141 Chrysene-D12	240	16.251	16.268	(1.000)	1073473	40.0000		
	142 Chrysene	228	16.293	16.310	(1.003)	1453677	47.7110	47.7	
	143 bis(2-Ethylhexyl)phthalate	149	16.479	16.496	(1.014)	1501108	50.0354	50.0	
	145 Di-n-octylphthalate	149	17.762	17.769	(0.933)	1717288	51.0103	51.0	
	146 Benzo(b)fluoranthene	252	18.239	18.256	(0.958)	801266	47.0898	47.1	
	148 7,12-Dimethylbenz(A)Anthracen	256	18.259	18.276	(0.959)	377842	43.4187	43.4	
	149 Benzo(k)fluoranthene	252	18.301	18.328	(0.961)	771180	46.8891	46.9(H)	
	150 Benzo(a)pyrene	252	18.911	18.928	(0.993)	576122	43.8861	43.9	
*	151 Perylene-D12	264	19.046	19.053	(1.000)	462712	40.0000		
	152 3-Methylcholanthrene	268	19.719	19.736	(1.035)	246283	41.6592	41.6	
	153 Dibenz(a,j)acridine	279	20.785	20.802	(1.091)	289736	46.0989	46.1	
	154 Indeno(1,2,3-cd)pyrene	276	21.064	21.081	(1.106)	342023	47.6905	47.7	
	155 Dibenzo(a,h)anthracene	278	21.147	21.164	(1.110)	357063	49.8991	49.9	
	156 Benzo(g,h,i)perylene	276	21.551	21.578	(1.132)	365475	50.9676	51.0	
M	157 Total PAHs	100				21172144	813.005	813	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101823,b\U1632.D
Date : 18-OCT-2023 17:56
Client ID: WG343378-LCSD
Sample Info: WG343378-3
Volume Injected (uL): 1.0
Column phase: Rxi-5ViOms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101823,b\U1632.D
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Aniline
-Phenol-D6+
-Bis(2-Chloroethyl)ether+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-2-Methylphenol+
-Acetophenone+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-O,O,O-Triethylphosphorothi
-1,2,4-Trichlorobenzene
-Naphthalene-D8+
-2,4-Dichlorophenol+
-Hexachlorobutadiene
-N-Nitroso-Di-N-Butylamine+
-4-Chloro-3-Methylphenol+
-2-Methylnaphthalene
-1-Methylnaphthalene
-1,2,4,5-Tetrachlorobenzen+
-2,4,6-Trichlorophenol
-2-Fluorobiphenyl
-Safrole+
-2-Nitroaniline
-1,4-Naphthoquinone
-Dimethyl Phthalate+
-2,6-Dinitrotoluene+
-3-Nitroaniline+
-2,4-Dinitrophenol
-Dibenzofuran
-4-Nitrophenol+
-2,3,4,6-Tetrachlorophenol+
-Diethylphthalate
-Fluorene+
-4,6-Dinitro-2-Methylpheno+
-2,4,6-Tribromophenol
-Sulfotepp
-1,3,5-Trinitrobenzene+
-Dimethoate
-4-Aminobiphenyl+
-Pronamide+
-Disulfoton+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Isodrin
-Fluoranthene
-Pyrene
-Terphenyl-D14
-Aramite+
-Chlorobenzilate
-Famphur+
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-3,3'-Dichlorobenzidine+
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene
-Dibenz(a,h)anthracene
-Benzo(g,h,i)perylene

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES, LLC. Non-Volatile TCLP/SPLP Extraction Log

I. EXTRACTION CONDITIONS

Extraction Method:	SW846 1311 (TCLP) ☑		Balance ID: BAL-~~69-82~~ CD9-27	Rotary Extractor ID: 2	
	SW846 1312 (SPLP) ☐		pH Probe ID: pH 5	pH Meter ID: Fisher AB315 S/N A11928	
Solid pH Determination:	Date: 9-25-23	Analyst: MB/TT	Room Thermometer ID: DG 113	(Room Temp Criteria. 23(±2)°C)	
Rotary Extraction Started:	Date: 9-26-23	Time: 16:18	Analyst: CD	RoomTemp(°C):	Start: 21.0 End: 23
Rotary Extraction Completed:	Date: 9-27-23	Time: 8:54	Analyst: CD	Room Temp (°C):	Min. 21 Max. 23
Extraction Filtered:	Date: 9-27-23	Time: 12:00	Analyst: CD	Filter Lot #: 115066-3003-T / 0000191992	
Elapsed Extraction Time (HH:MM): 16:36		5% HNO_3 ID (used to wash filters): MB23749		HNO_3 Lot # (used to preserve extracts): MB2327	
Fluid 1 pH (Day of use): 4.94		Fluid 1 Expiration Date: 9-25-24		Rotary Extractor Rotation Rate Checked? YES	
Fluid 2 pH (Day of use): 2.91		Fluid 2 Expiration Date: 9-25-24		Criteria. 30 ± 2 RPM	

II. EXTRACTION SETUP TCLP Fluid pH: #1 - 4.93 ± 0.05 #2 - 2.88 ± 0.05 SPLP Fluid pH: #1 - 4.20 ± 0.05 #2 - 5.00 ± 0.05

Katahdin Sample No. (include bottle ID)	Matrix	Check One: 100% Wet Solids- waste will yield no liquid upon filtration	Check One: < 100% Wet Solids (Perform Solids Determination below)	SPLP FLUID # (1 for east and 2 for west of Mississippi River)	TCLP pH Determination and Fluid Selection (date & init. above): Initial pH of solid phase: (if <5, use Fluid #1; if >5 add 3.5 mL of 1 N HCl)	pH after 1 N HCL addition (if <5, use Fluid #1; if >5, use Fluid #2	Extraction Setup: Volume of Extraction Fluid (mL)	Fluid # used	Associated Extraction Blank ID:	Weight of Waste (g)	pH of extract after extraction:	Extract to be analyzed for: Metals (M), SVOA (S), PEST (P), HERB (H), Cyanide (C)	Extraction Bottle ID (if applicable)
SQ5102-1A	SL	✓	—	—	6.66	1.98	2000	1	PBT1813A	100.01	4.91	M	N/A
SQ5102-2A			—		6.60	2.03				100.31	4.92		
SQ5102-3A			—		6.68	1.80				100.12	~~4.99~~ 4.88 DUP	21.23	
SQ5102-4A			—		6.66	2.03				100.29	4.96		
SQ5102-5A			—		6.49	1.96			101.47	100.33	4.94		
SQ5102-6A			—		6.36	1.97		↓	↓ 100.33	101.19	4.92		
SQ5080-2A			—		11.64	11.06		2	PBT1814A	100.30	7.16		
SQ5080-3A	↓	↓	—	↓	11.59	10.49		2	↓	100.40	6.60	↓	↓
SQ5109-1B	SL	✓	—	—	8.13	1.38	↓	1	PBT1813A	100.58	4.96	M,S,P,H	56
PBT1813A	WB	-	-	-	-	-	2000	1	↓	-	4.90	↓	57

11/15/23

QAAA232-000833

III. SOLIDS DETERMINATION

Date AQ Filtered:			A	B	C	D	E	F	G	H	I	J	K
Katahdin Sample No. (include bottle ID)	AQ or SL	Time Filt'd	Weight of filter (g)	Weight of filtrate vessel (g)	Weight of weigh boat + waste (g)	Weight of weigh boat + residue (g)	Weight of waste (C-D) (g)	Weight of filtrate vessel + filtrate (g)	Weight of liquid phase (F-B) (g)	Percent wet solids [(E-G)/E x 100%]	Weight of filter + dry solids (g)	Weight of dry solids (I-A) (g)	Percent dry solids (J/E x 100%)

IV. PHASE SEPARATION

Katahdin Sample No. (include bottle ID)	Matrix	Percent dry solids [1] <0.5%	Percent dry solids [1] >0.5%	L Weight of filtrate vessel (g)	M Weight of weigh boat + waste (g)	N Weight of weigh boat + residue (g)	O Weight of waste (M-N) (g)	P Weight of filtrate vessel + filtrate (g)	Q Weight of liquid phase (P-L) (g)	R Volume of liquid phase (mL) [2]	S Weight of wet solids (O - Q) (g)
									CD9-26-23		

1) If dry solids is <0.5%, filter sufficient volume of waste to support all required analyses. If dry solids >0.5% and wet solids <100%, perform phase separation (steps L – S above).

2) If miscible, proportionately combine pre-extraction filtrate with rotary extract. If not miscible, analyze aliquots separately and mathematically combine results.

V. COMMENTS:

Reviewed By_____ Date_____

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SVOA
SEP

KATAHDIN ANALYTICAL SERVICES, LLC.
ORGANIC EXTRACTIONS LOG - AQUEOUS SEMI-VOLATILES

Extraction Method: (check one)	SW846 3510 (SEP) X	SW846 3520 (CLLE)	
Analytical Method:(check one)	SW846 8270 X	SW846 8270 SIM	Other:
Surrogate ID: SV3176	Surrogate ID: SV3178 SVOA	Spike ID: SV3174 APPIX	Spike ID:
Methylene Chloride Lot #: EH2060US	pH Paper Lot # 6303005	KI Starch Paper ID: 03062023	If positive, note in comments and contact the PM, the client may need to resample.
pH (1st Extraction) ≤2	H_2SO_4 Lot # RE1014	pH (2nd Extraction) ≥11	NaOH Lot # 218750
$NaSO_4$ Lot # RE1018	Filter Paper Lot #: CX0168	Boiling Stones ID: —	Vial Lot #: CX0164 ✓
Nitrogen Bath Temperature: 40C			Client ID vs KAS ID Verified:
Prep Start Time: 11:35	Prep End Time: 12:00	CLLE Start Time: —	CLLE End Date & Time: —

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location SV10123	Initials	Comments R6240 93
10/2/23	SH SR	WG343378-1	1000	1.0	N/A	/		1.00	10/4/23	D7	SR	MB
↓	↓	-2	↓	↓	1.0	/		↓	↓	D8	↓	LCS + APPIX
↓	↓	-3	↓	↓	↓	/		↓	↓	D9	↓	LCSD
↓	↓	-4	200	↓	↓	/		↓	↓	D10	↓	TCLP Blank PBT 1813A
								SR	10/4/23			

EX-007 – Revision 7– 09/22/2020

QAEX501_000802

0000098

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location	Initials	Comments
10/2/23	SH SR	SQ5108-1	200	1.0	N/A	X	X	1.00	10/4/23	E1	SR	TCLP
↓	↓	SQ5109-1	200	↓	↓	X		↓	↓	E2	↓	↓
		SQ5205-1	1070			X				E3		
		↓ -2	1070			X				E4		
		SQ5235-1	1070			X				E5		AP 1X very black,
↓	↓	↓ -2	1070	↓	↓	X		↓	↓	E6	↓	↓ took 10 pipette H_2SO_4 to acidify
												big emulsion
												thick, dark, smelly
								SR	10/4/23			

SH 10/2/23

Reviewed By_____ Date_____

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5973-U

DATE OF DFTPP INJECTION: 10/18/23

WORKGROUP	SAMPLE	DATAFILE	DF	VIAL #	METHOD	UL INJ	CHEMIST	COMMENTS
WG344071-1	50 ng DFTPP	UD935	1	1	DFTPP390	2.0	DT	OK
-4	SSTD 50 U1018	U1617	↓	2	U8270C20	1.0	↓	OK
-3	25	18	↓	3	↓	↓	↓	OK
-2	10	19	↓	4	↓	↓	↓	OK
-5	75	20	↓	5	↓	↓	↓	OK
-6	100	21	↓	6	↓	↓	↓	OK
-7	125	22	↓	7	↓	↓	↓	OK
-8	↓ IND ↓	23	↓	8	↓	↓	↓	OK
	WG342736-1 RA	24	↓	9	↓	↓	↓	IS6↑ OK
	SQ4875-1 RA	25	↓	10	↓	↓	↓	IS6↑ OK
	↓ -2 RA	26	↓	11	↓	↓	↓	IS6↑ OK
	WG343703-1	27	↓	12	↓	↓	↓	IS6↑
	↓ -2	28	↓	13	↓	↓	↓	2↓2↑ OK
	↓ -3	29	↓	14	↓	↓	↓	2↓1↑ OK
	WG343378-1	30	↓	15	↓	↓	↓	IS6↑
	↓ -2	31	↓	16	↓	↓	↓	2↑1↓ OK
	↓ -3	32	↓	17	↓	↓	↓	2↓3↑ OK
	↓ -4	33	↓	18	↓	↓	↓	PBT1813 OK
	SQ5408-1	34	↓	19	↓	↓	↓	SS4-6↓ Matrix OK
	SQ5235-1	35	↓	20	↓	↓	↓	ISS↓ SS4↓ Matrix OK
	↓ -2	36	↓	21	↓	↓	↓	ISS↓ SS4↓ Matrix OK
-9	SSTD 50 U1018	37	↓	2	↓	↓	↓	2750% use all
-10	↓	38	↓	2	↓	↓	↓	↓
-11	↓	39	↓	2	↓	↓	↓	↓
	NARROW MOUTH	40	↓	22	↓	↓	↓	INTERNAL LIB
	WIDE MOUTH	↓ 41	↓	23	↓	↓	↓	↓ 10/19/23 DT

STANDARD	CODE	MeCl2 Lot #
DFTPP	S4025	EH206-05
CAL. STD.	S4028	
ICV. STD.	S3998 S4012	
IS MIX	SK6534	

REVIEWED AND APPROVED BY: _____
DATE: _____

KATAHDIN ANALYTICAL SERVICES

GC/MS SVOA INJ LOG INSTRUMENT: 5973-U

DATE OF DFTPP INJECTION: 10/19/23

10/20/23 DT

50 ng DFTPP

WORKGROUP	SAMPLE	DATAFILE	DF	VIAL #	METHOD	UL INJ	CHEMIST	COMMENTS
WG344145-1	~~SSTD 2 SQ 41019~~	UD936	1	1	DFTPP390	2.0	DT	OK
-2	SSTD SQ 41019	U1642		2	U8270C20	1.0		OK
	SQ4929-1	43		3				SS1,5,6↓
	-3	44		4				OK
	-5	45		5				OK
	-7	46		6				OK
	-9	47		7				ACIDS ↓
	SQ4955-1	48		8				SS1↓(710%) OK
	-2	49		9				SS2↑ OK
	-3	50		16				SS2↑ OK
	-4	51		11				SS2↑ OK
	SQ5108-1	52		12				OK
	SQ5109-1	53		13				OK
	SQ5206-1	54		14				OK
	-2	55		15				OK
	WG341884-1	56		16				OK
	-2	57		17				2↓1↑ OK
	SQ4987-3	58		18				OK
	-4	59		19				SS4↑ OK
	-13	60		20				OK
-3	SSTD SQ 41019	61		2				OK
-4		62		2				-NOT USED-
-5		63		2				

10/20/23 DT

STANDARD	CODE	MeCl2 Lot #
DFTPP	SQ4025	FH206-05
CAL. STD.	SQ4028	
ICV. STD.	~~SQ3998 SQ4012~~	
IS MIX	STL6534	

REVIEWED AND APPROVED BY: _____

DATE: _____

TCLP PESTICIDE DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **SDG:** SQ5109 **Matrix:** AQ

Client Sample ID	Lab Sample ID	Col. ID	DCB	#	TCX	#
DOW-SWC-01	SQ5109-1RE	A	70.8		74.2	
DOW-SWC-01	SQ5109-1RE	B	74.0		68.2	
Method Blank	WG343476-1	A	55.7		71.9	
Method Blank	WG343476-1	B	56.6		67.3	
Laboratory Control S	WG343476-2	A	68.3		74.2	
Laboratory Control S	WG343476-2	B	69.6		69.2	
Laboratory Control S	WG343476-3	A	63.0		78.7	
Laboratory Control S	WG343476-3	B	62.6		72.0	
Laboratory Control S	WG343476-4	A	55.6		67.8	
Laboratory Control S	WG343476-4	B	57.5		63.2	
Laboratory Control S	WG343476-5	A	63.2		69.4	
Laboratory Control S	WG343476-5	B	64.8		65.3	

Abbr.	Surrogate Compound	QC Limits
DCB	Decachlorobiphenyl	41-131
TCX	Tetrachloro-M-Xylene	44-124

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Lab File ID : 1QJ00037.D
Instrument ID : GC01
Matrix : AQ

SDG : SQ5109
Lab Sample ID : WG343476-1
Date Extracted : 04-OCT-23
Extraction Method : SW846 3510C

Column A
Date Analyzed : 06-OCT-23
Time Analyzed : 15:51

Column B
Date Analyzed : 06-OCT-23
Time Analyzed : 15:51

This Method Blank applies to the following samples and QC samples:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG343476-2	1QJ00038.I	10/06/23	16:11
Laboratory Control S	WG343476-3	1QJ00039.I	10/06/23	16:30
Laboratory Control S	WG343476-4	1QJ00040.I	10/06/23	16:50
Laboratory Control S	WG343476-5	1QJ00041.I	10/06/23	17:09
DOW-SWC-01	SQ5109-1RE	1QJ00043.I	10/06/23	17:48

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Form 8
Analytical Sequence

Lab Name: Katahdin Analytical Services **SDG:** SQ5109
Instrument ID: GC01 **Column ID:** A

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCX	DCB	
Breakdown Evaluation	WG342485-1	09/11/23	20:29			
Initial Calibration	WG342485-2	09/11/23	20:49	3.19	9.722	
Initial Calibration	WG342485-3	09/11/23	21:08	3.191	9.722	
Initial Calibration	WG342485-4	09/11/23	21:28	3.189	9.724	
Initial Calibration	WG342485-5	09/11/23	21:47	3.189	9.723	
Initial Calibration	WG342485-6	09/11/23	22:07	3.19	9.723	
Initial Calibration	WG342485-7	09/11/23	22:26	3.191	9.723	
Independent Source	WG342485-8	09/11/23	22:46			
Initial Calibration	WG342486-1	09/11/23	23:05			
Initial Calibration	WG342486-2	09/11/23	23:25			
Initial Calibration	WG342486-3	09/11/23	23:44			
Initial Calibration	WG342486-4	09/12/23	00:04			
Initial Calibration	WG342486-5	09/12/23	00:23			
Initial Calibration	WG342486-6	09/12/23	00:43			
Independent Source	WG342486-7	09/12/23	01:02			
Initial Calibration	WG342487-1	09/12/23	12:52			
Initial Calibration	WG342487-2	09/12/23	13:11			
Initial Calibration	WG342487-3	09/12/23	13:31			
Initial Calibration	WG342487-4	09/12/23	13:50			
Initial Calibration	WG342487-5	09/12/23	14:09			
Initial Calibration	WG342487-6	09/12/23	14:29			
Independent Source	WG342487-7	09/12/23	14:48			
Breakdown Evaluation	WG343657-1	10/06/23	12:12			
Continuing Calibrati	WG343657-2	10/06/23	12:32	3.112	9.642	
Continuing Calibrati	WG343657-3	10/06/23	15:13			
Continuing Calibrati	WG343657-4	10/06/23	15:32			
Method Blank	WG343476-1	10/06/23	15:51	3.114	9.644	
Laboratory Control S	WG343476-2	10/06/23	16:11	3.114	9.643	
Laboratory Control S	WG343476-3	10/06/23	16:30	3.113	9.643	
Laboratory Control S	WG343476-4	10/06/23	16:50	3.112	9.642	
Laboratory Control S	WG343476-5	10/06/23	17:09	3.113	9.641	
DOW-SWC-01	SQ5109-1RE	10/06/23	17:48	3.115	9.638	
Continuing Calibrati	WG343657-5	10/06/23	20:25	3.111	9.638	
Continuing Calibrati	WG343657-6	10/06/23	20:44			
Continuing Calibrati	WG343657-7	10/06/23	21:04			

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Form 8
Analytical Sequence

Lab Name: Katahdin Analytical Services **SDG:** SQ5109
Instrument ID: GC01 **Column ID:** B

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCX	DCB	
Breakdown Evaluation	WG342485-1	09/11/23	20:29			
Initial Calibration	WG342485-2	09/11/23	20:49	3.672	11.24	
Initial Calibration	WG342485-3	09/11/23	21:08	3.672	11.24	
Initial Calibration	WG342485-4	09/11/23	21:28	3.671	11.24	
Initial Calibration	WG342485-5	09/11/23	21:47	3.671	11.24	
Initial Calibration	WG342485-6	09/11/23	22:07	3.671	11.24	
Initial Calibration	WG342485-7	09/11/23	22:26	3.673	11.24	
Independent Source	WG342485-8	09/11/23	22:46			
Initial Calibration	WG342486-1	09/11/23	23:05			
Initial Calibration	WG342486-2	09/11/23	23:25			
Initial Calibration	WG342486-3	09/11/23	23:44			
Initial Calibration	WG342486-4	09/12/23	00:04			
Initial Calibration	WG342486-5	09/12/23	00:23			
Initial Calibration	WG342486-6	09/12/23	00:43			
Independent Source	WG342486-7	09/12/23	01:02			
Initial Calibration	WG342487-1	09/12/23	12:52			
Initial Calibration	WG342487-2	09/12/23	13:11			
Initial Calibration	WG342487-3	09/12/23	13:31			
Initial Calibration	WG342487-4	09/12/23	13:50			
Initial Calibration	WG342487-5	09/12/23	14:09			
Initial Calibration	WG342487-6	09/12/23	14:29			
Independent Source	WG342487-7	09/12/23	14:48			
Breakdown Evaluation	WG343657-1	10/06/23	12:12			
Continuing Calibrati	WG343657-2	10/06/23	12:32	3.594	11.13	
Continuing Calibrati	WG343657-3	10/06/23	15:13			
Continuing Calibrati	WG343657-4	10/06/23	15:32			
Method Blank	WG343476-1	10/06/23	15:51	3.593	11.13	
Laboratory Control S	WG343476-2	10/06/23	16:11	3.594	11.13	
Laboratory Control S	WG343476-3	10/06/23	16:30	3.594	11.13	
Laboratory Control S	WG343476-4	10/06/23	16:50	3.594	11.13	
Laboratory Control S	WG343476-5	10/06/23	17:09	3.593	11.13	
DOW-SWC-01	SQ5109-1RE	10/06/23	17:48	3.593	11.12	
Continuing Calibrati	WG343657-5	10/06/23	20:25	3.591	11.12	
Continuing Calibrati	WG343657-6	10/06/23	20:44			
Continuing Calibrati	WG343657-7	10/06/23	21:04			

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Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL, "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery or percent RPD (relative percent difference) was outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

And/or

J Used for Dual Column analytes when there is a greater than 40% difference for detected concentrations between the two GC/HPLC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

I Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration (ICAL).

D Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration Verification (ICV).

C Indicates that the flagged compound did not meet DoD criteria in the corresponding opening Calibration Verification (CV).

V Indicates that the flagged compound did not meet DoD criteria in the corresponding closing Calibration Verification (CV).

L/LL Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M/MM Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike (MS) and/or Matrix Spike Duplicate MSD) prepared and/or analyzed concurrently with the native sample.

H Indicates the flagged compound was detected on the primary column but was not detected on the confirmation column therefore the compound is not reported as a positive detection. (SW846 8330A/B only)

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

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ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5109
Lab ID: SQ5109-1RE
Client ID: DOW-SWC-01
Matrix: AQ
Lab File ID: 1QJ00043.D

Sample Date: 21-SEP-23
Extract Date: 04-OCT-23
Extracted By: AD
Extraction Method: 3510C/1311
Lab Prep Batch: WG343476

Report Date: 01-NOV-23
Analysis Date: 06-OCT-23
Analyst: AD
Analysis Method: SW846 8081B
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
gamma-BHC	U	0.12	ug/L	1	.05	0.25	0.060	0.12
Heptachlor	U	0.12	ug/L	1	.05	0.25	0.060	0.12
Heptachlor Epoxide	U	0.12	ug/L	1	.05	0.25	0.060	0.12
Endrin	U	0.25	ug/L	1	.1	0.50	0.12	0.25
Methoxychlor	U	1.2	ug/L	1	.5	2.5	0.60	1.2
Technical Chlordane	U	1.2	ug/L	1	.5	2.5	0.60	1.2
Toxaphene	U	2.5	ug/L	1	1	5.0	1.2	2.5
Tetrachloro-M-Xylene		74.2	%					
Decachlorobiphenyl		74.0	%					

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Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00043.D
Report Date: 01-Nov-2023 10:46

Katahdin Analytical Services

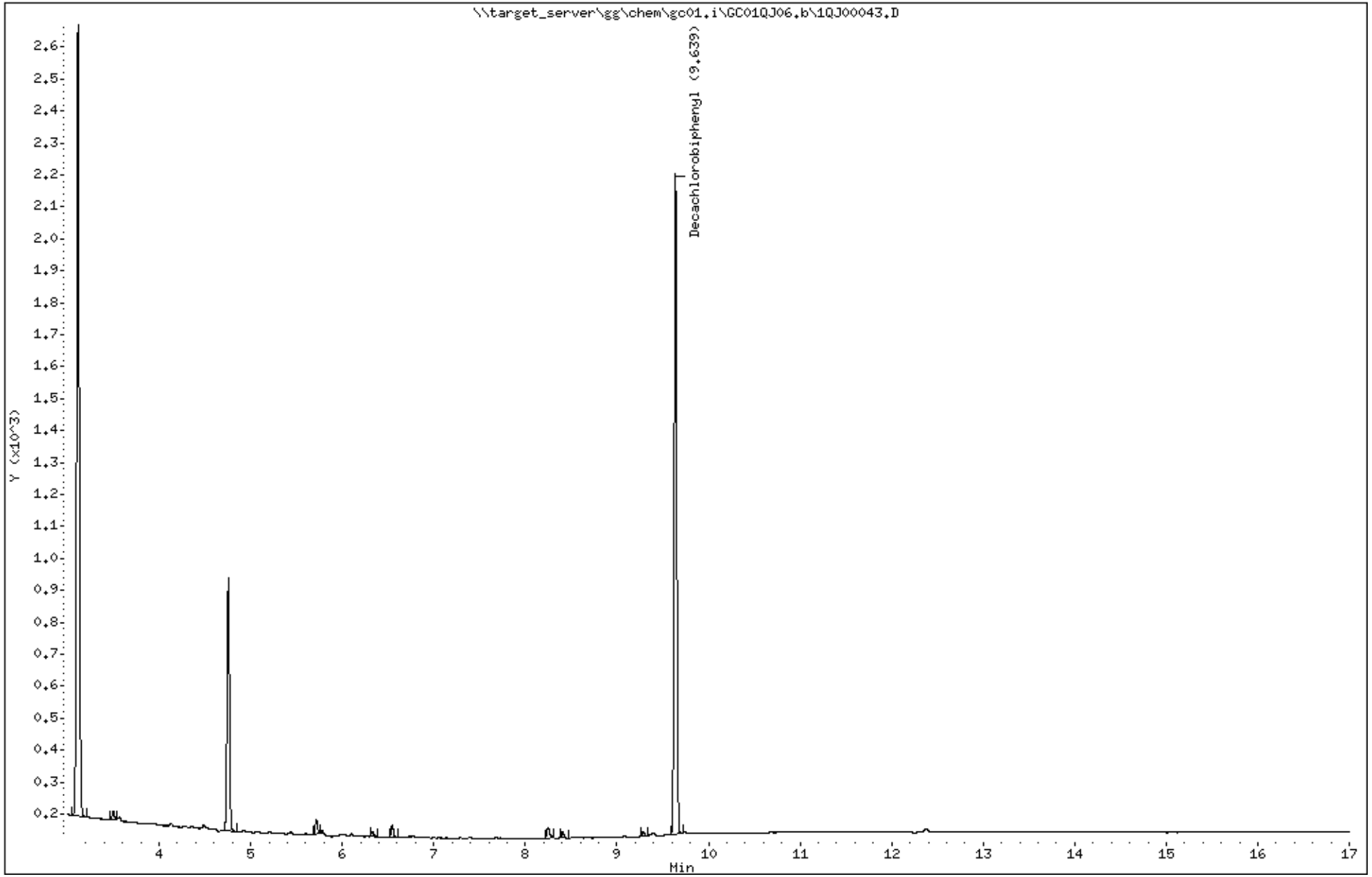
Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00043.D
Lab Smp Id: SQ5109-1RE Client Smp ID: DOW-SWC-01
Inj Date : 06-OCT-2023 17:48
Operator : AD Inst ID: gc01.i
Smp Info : SQ5109-1RE
Misc Info : WG343657,WG343476,WG342485-2
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09 Cal File: 1QI00078.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_8081.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	0.20000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/L)	REVIEW CODE
$ 4 Tetrachloro-m-Xylene	3.115	3.111	0.004	2478	0.07429	3.71	
$ 34 Decachlorobiphenyl	9.638	9.638	0.000	2068	0.07087	3.54	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00043.D
Date : 06-OCT-2023 17:48
Client ID: DOW-SWC-01
Instrument: gc01.i
Sample Info: SQ5109-1RE
Purge Volume: 0.2
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QJ00043.D
Report Date: 01-Nov-2023 10:47

Katahdin Analytical Services

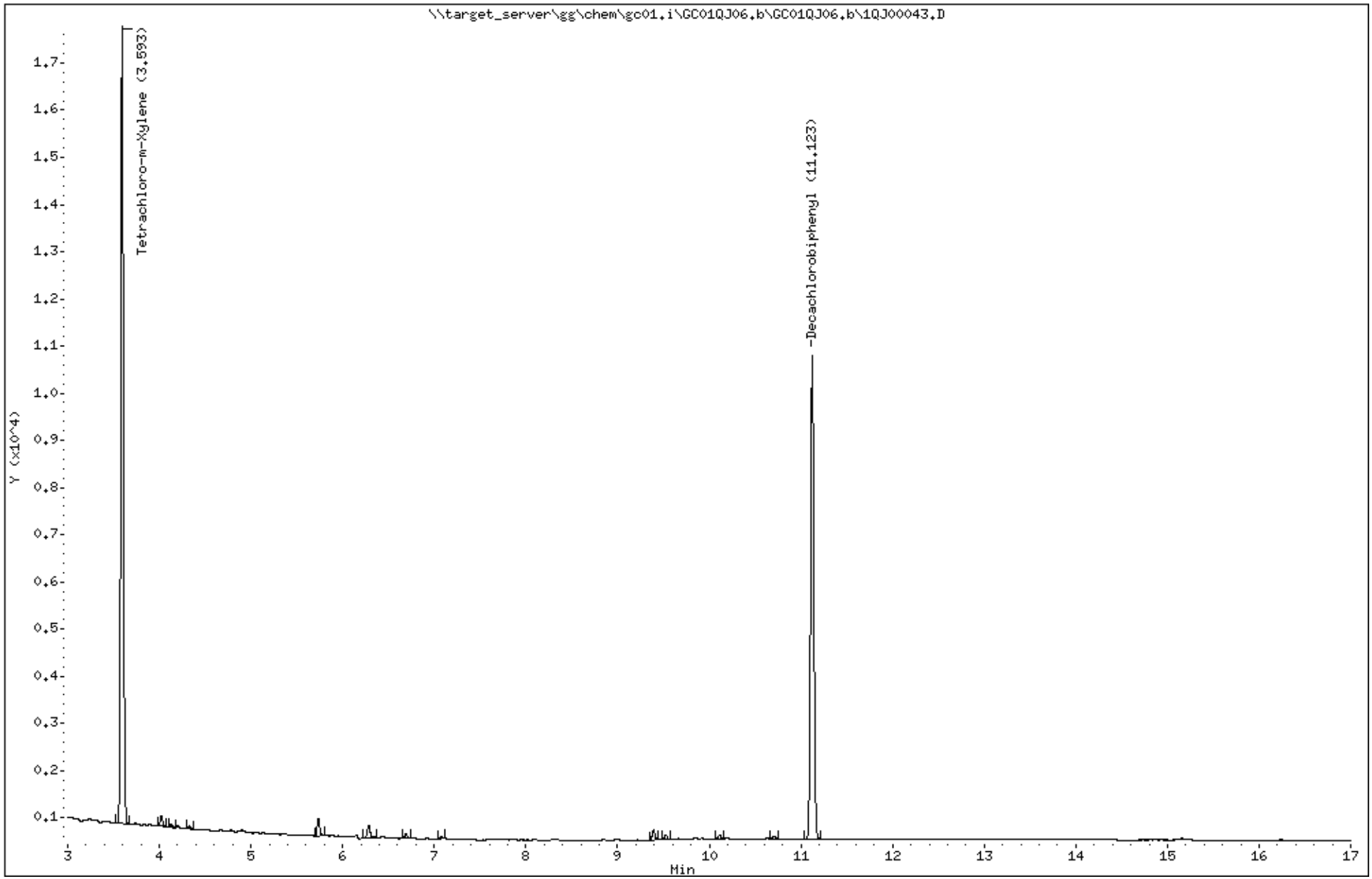
Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00043.D
Lab Smp Id: SQ5109-1RE Client Smp ID: DOW-SWC-01
Inj Date : 06-OCT-2023 17:48
Operator : AD Inst ID: gc01.i
Smp Info : SQ5109-1RE
Misc Info : WG343657,WG343476,WG342485-2
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29 Cal File: 1QI00079.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_8081.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	0.20000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/L)	REVIEW CODE
$ 4 Tetrachloro-m-Xylene	3.593	3.591	0.002	16908	0.06821	3.41	
$ 34 Decachlorobiphenyl	11.123	11.119	0.004	10242	0.07412	3.70	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00043.D
Date : 06-OCT-2023 17:48
Client ID: DOW-SWC-01 Instrument: gc01.i
Sample Info: SQ5109-1RE
Purge Volume: 0.2 Operator: AD
Column phase: ZB-Multiresidue-2 Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 273 of 681

Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5109

Instrument ID: GC01 **Column ID:** A

Lab File IDs : 1QI00075.D 1QI00076.D 1QI00077.D 1QI00074.D 1QI00078.D 1QI00079.D **Calibration Date(s):** 11-SEP-23 20:49 12-SEP-23 14:29

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	0.0050000	0.0100000	0.0250000	0.0500000	0.1000000	0.2500000	Type	b	m1	m2	Result	Limit	
gamma-BHC	48000	46200	45160	47680	60160	54192	AVG		50232		11.53006	20	O
Heptachlor	41000	37500	37200	39420	50220	44960	AVG		41717		12.07135	20	O
Heptachlor Epoxide	42000	38000	36640	37800	45600	40052	AVG		40015		8.32529	20	O
4,4'-DDE	40000	36400	36800	38980	49790	44744	AVG		41119		12.64047	20	O
Endrin	37200	34200	33840	34900	42210	38088	AVG		36740		8.62418	20	O
Endrin	37200	34200	33840	34900	42210	38088	AVG		36740		8.62418	20	O
4,4'-DDD	32000	29900	29480	30980	39310	35800	AVG		32912		11.74347	20	O
4,4'-DDT	35400	31800	30880	33180	41670	38148	AVG		35180		11.71269	20	O
Endrin Aldehyde	26200	23200	21240	21940	27170	24112	AVG		23977		9.76318	20	O
Methoxychlor	21200	18300	16200	16240	19720	17948	AVG		18268		10.72628	20	O
Endrin Ketone	32800	28000	26440	27360	34980	31132	AVG		30119		11.25744	20	O
Tetrachloro-m-Xylene	34600	31500	30160	30520	38460	34904	AVG		33357		9.63951	20	
Decachlorobiphenyl	34800	29300	25920	25760	30790	28500	AVG		29178		11.56925	20	

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5109

Instrument ID: GC01 **Column ID:** B

Lab File IDs : 1QI00075.D 1QI00076.D 1QI00077.D 1QI00074.D 1QI00078.D 1QI00079.D **Calibration Date(s):** 11-SEP-23 20:49 12-SEP-23 14:29

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	0.0050000	0.0100000	0.0250000	0.0500000	0.1000000	0.2500000	Type	b	m1	m2	Result	Limit	
gamma-BHC	403800	363200	337000	333580	386660	320896	AVG		357523		9.15679	20	O
Heptachlor	310800	272100	254920	255920	293360	246620	AVG		272287		9.22641	20	O
Heptachlor Epoxide	311200	278700	251320	250220	283400	233904	AVG		268124		10.51552	20	O
4,4'-DDE	305800	273000	255400	257240	297210	252380	AVG		273505		8.40737	20	O
Endrin	264600	231500	215640	217940	249940	215100	AVG		232453		8.88861	20	O
Endrin	264600	231500	215640	217940	249940	215100	AVG		232453		8.88861	20	O
4,4'-DDD	246000	214800	202080	205980	240990	206332	AVG		219364		8.75850	20	O
4,4'-DDT	249400	221700	207560	211560	249080	217240	AVG		226090		8.21294	20	O
Endrin Aldehyde	171200	148500	135000	135260	160140	137664	AVG		147961		10.13333	20	O
Methoxychlor	126000	109800	101680	101360	123150	110308	AVG		112050		9.34081	20	O
Endrin Ketone	202400	172700	161480	162540	203490	176076	AVG		179781		10.46480	20	O
Tetrachloro-m-Xylene	283000	254000	232320	228920	266490	222536	AVG		247878		9.65040	20	
Decachlorobiphenyl	161000	139700	124960	123500	148950	131008	AVG		138186		10.63936	20	

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5109

Instrument ID: GC01 **Column ID:** A

Lab File IDs : 1QI00075.D 1QI00076.D 1QI00077.D 1QI00074.D 1QI00078.D 1QI00079.D **Calibration Date(s):** 11-SEP-23 20:49 12-SEP-23 14:29

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	0.0050000	0.0100000	0.0250000	0.0500000	0.1000000	0.2500000	Type	b	m1	m2	Result	Limit	
Toxaphene(1)	280	228	212	190	214	215	AVG		223		13.62971	20	O
Toxaphene(2)	370	368	366	354	397	402	AVG		376		5.06219	20	O
Toxaphene(3)	370	368	370	352	410	420	AVG		382		7.05584	20	O
Toxaphene(4)	600	560	546	555	624	632	AVG		586		6.40910	20	O
Toxaphene(5)	730	680	674	657	757	754	AVG		709		6.15762	20	O
Toxaphene(6)	710	680	668	688	806	800	AVG		725		8.50868	20	O
Toxaphene(7)	930	844	824	829	963	943	AVG		889		7.09969	20	O
Toxaphene(8)	620	608	598	619	727	745	AVG		653		9.99299	20	O
Toxaphene(9)	670	608	596	604	710	726	AVG		652		8.81667	20	O

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5109

Instrument ID: GC01 **Column ID:** B

Lab File IDs : 1QI00075.D 1QI00076.D 1QI00077.D 1QI00074.D 1QI00078.D 1QI00079.D **Calibration Date(s):** 11-SEP-23 20:49 12-SEP-23 14:29

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	0.0050000	0.0100000	0.0250000	0.0500000	0.1000000	0.2500000	Type	b	m1	m2	Result	Limit	
Toxaphene(1)	2470	2268	2218	2067	2228	2106	AVG		2226		6.38672	20	O
Toxaphene(2)	2070	1928	1860	1737	1860	1784	AVG		1873		6.25511	20	O
Toxaphene(3)	2790	2540	2418	2317	2488	2373	AVG		2488		6.75716	20	O
Toxaphene(4)	2930	2624	2500	2404	2657	2560	AVG		2612		6.88655	20	O
Toxaphene(5)	3100	2744	2628	2523	2763	2697	AVG		2742		7.13757	20	O
Toxaphene(6)	5330	4732	4570	4489	4991	4598	AVG		4785		6.68258	20	O
Toxaphene(7)	5950	5420	5184	5082	5787	5335	AVG		5460		6.25492	20	O
Toxaphene(8)	3600	3352	3350	3186	3680	3577	AVG		3457		5.49450	20	O
Toxaphene(9)	3440	3204	3156	2999	3440	3345	AVG		3264		5.37323	20	O

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5109

Instrument ID: GC01 **Column ID:** A

Lab File IDs : 1QI00075.D 1QI00076.D 1QI00077.D 1QI00074.D 1QI00078.D 1QI00079.D **Calibration Date(s):** 11-SEP-23 20:49 12-SEP-23 14:29

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	0.0050000	0.0100000	0.0250000	0.0500000	0.1000000	0.2500000	Type	b	m1	m2	Result	Limit	
Technical Chlordane(1)	4360	4050	3936	4202	4973	4132	AVG		4276		8.66101	20	O
Technical Chlordane(2)	5520	5120	4932	5248	6230	5101	AVG		5359		8.76427	20	O
Technical Chlordane(3)	1320	1290	1180	1258	1499	1272	AVG		1303		8.19238	20	O

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5109

Instrument ID: GC01 **Column ID:** B

Lab File IDs : 1QI00075.D 1QI00076.D 1QI00077.D 1QI00074.D 1QI00078.D 1QI00079.D **Calibration Date(s):** 11-SEP-23 20:49 12-SEP-23 14:29

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	0.0050000	0.0100000	0.0250000	0.0500000	0.1000000	0.2500000	Type	b	m1	m2	Result	Limit	
Technical Chlordane(1)	34080	31310	28740	28684	33009	25356	AVG		30196		10.6874	20	O
Technical Chlordane(2)	34180	30920	28312	28302	32880	25252	AVG		29974		11.0537	20	O
Technical Chlordane(3)	9240	8000	7364	7384	8924	7380	AVG		8049		10.4615	20	O

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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Report Date: 20-Sep-2023 12:53

Calibration History

Method : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Start Cal Date: 11-SEP-2023 20:49
End Cal Date : 12-SEP-2023 14:29
Last Cal Level: 5
Last Cal Type : Initial Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
12-SEP-2023 13:11	TC	1QI00075.D
11-SEP-2023 23:25	Tox	1QI00057.D
11-SEP-2023 21:08	cv	1QI00050.D
Cal Level: 2 , Cal Amount: 0.01000		
12-SEP-2023 13:31	TC	1QI00076.D
11-SEP-2023 23:44	Tox	1QI00058.D
11-SEP-2023 21:28	cv	1QI00051.D
Cal Level: 3 , Cal Amount: 0.02500		
12-SEP-2023 13:50	TC	1QI00077.D
12-SEP-2023 00:04	Tox	1QI00059.D
11-SEP-2023 21:47	cv	1QI00052.D
Cal Level: 4 , Cal Amount: 0.05000		
12-SEP-2023 12:52	TC	1QI00074.D
11-SEP-2023 23:05	Tox	1QI00056.D
11-SEP-2023 20:49	cv	1QI00049.D
Cal Level: 5 , Cal Amount: 0.10000		
12-SEP-2023 14:09	TC	1QI00078.D
12-SEP-2023 00:23	Tox	1QI00060.D
11-SEP-2023 22:07	cv	1QI00053.D
Cal Level: 6 , Cal Amount: 0.25000		
12-SEP-2023 14:29	TC	1QI00079.D
12-SEP-2023 00:43	Tox	1QI00061.D
11-SEP-2023 22:26	cv	1QI00054.D

Continuing Calibration
Ccal Level Mode: BY SAMPLE

Report Date: 20-Sep-2023 12:53

Calibration History

Method : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Start Cal Date: 11-SEP-2023 20:49
End Cal Date : 12-SEP-2023 14:29
Last Cal Level: 6
Last Cal Type : Initial Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
12-SEP-2023 13:11	TC	1QI00075.D
11-SEP-2023 23:25	Tox	1QI00057.D
11-SEP-2023 21:08	cv	1QI00050.D
Cal Level: 2 , Cal Amount: 0.01000		
12-SEP-2023 13:31	TC	1QI00076.D
11-SEP-2023 23:44	Tox	1QI00058.D
11-SEP-2023 21:28	cv	1QI00051.D
Cal Level: 3 , Cal Amount: 0.02500		
12-SEP-2023 13:50	TC	1QI00077.D
12-SEP-2023 00:04	Tox	1QI00059.D
11-SEP-2023 21:47	cv	1QI00052.D
Cal Level: 4 , Cal Amount: 0.05000		
12-SEP-2023 12:52	TC	1QI00074.D
11-SEP-2023 23:05	Tox	1QI00056.D
11-SEP-2023 20:49	cv	1QI00049.D
Cal Level: 5 , Cal Amount: 0.10000		
12-SEP-2023 14:09	TC	1QI00078.D
12-SEP-2023 00:23	Tox	1QI00060.D
11-SEP-2023 22:07	cv	1QI00053.D
Cal Level: 6 , Cal Amount: 0.25000		
12-SEP-2023 14:29	TC	1QI00079.D
12-SEP-2023 00:43	Tox	1QI00061.D
11-SEP-2023 22:26	cv	1QI00054.D

Continuing Calibration
Ccal Level Mode: BY SAMPLE

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00055.D
Report Date: 20-Sep-2023 12:38

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa00508
Sample Matrix: LIQUID Fraction: PESTICIDE
Lab Smp Id: INDAB IND 0.05
Level: LOW Operator: AD
Data Type: GC MULTI COMP SampleType: INDSOURCE
SpikeList File: IND.spk Quant Type: ESTD
Sublist File: IND.sub
Method File: \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Misc Info: WG342485,WG342485,WG342485-2,SQ4875-1

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
5 alpha-BHC	0.0500	0.0463	92.66	80-120
6 gamma-BHC	0.0500	0.0470	94.08	80-120
7 beta-BHC	0.0500	0.0451	90.13	80-120
8 delta-BHC	0.0500	0.0497	99.38	80-120
9 Heptachlor	0.0500	0.0482	96.46	80-120
10 Aldrin	0.0500	0.0476	95.12	80-120
13 Heptachlor Epoxide	0.0500	0.0492	98.31	80-120
15 gamma-Chlordane	0.0500	0.0411	82.25	80-120
17 alpha-Chlordane	0.0500	0.0450	89.93	80-120
19 4,4'-DDE	0.0500	0.0485	97.04	80-120
20 Endosulfan I	0.0500	0.0489	97.83	80-120
21 Dieldrin	0.0500	0.0465	92.93	80-120
23 Endrin	0.0500	0.0500	100.00	80-120
24 4,4'-DDD	0.0500	0.0454	90.73	80-120
26 Endosulfan II	0.0500	0.0470	94.08	80-120
27 4,4'-DDT	0.0500	0.0463	92.61	80-120
28 Endrin Aldehyde	0.0500	0.0484	96.76	80-120
29 Methoxychlor	0.0500	0.0436	87.26	80-120
32 Endosulfan sulfate	0.0500	0.0503	100.60	80-120
33 Endrin Ketone	0.0500	0.0508	101.53	80-120

Data File: 1QI00055.D
Report Date: 20-Sep-2023 12:38

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa00508
Sample Matrix: LIQUID Fraction: PESTICIDE
Lab Smp Id: INDAB IND 0.05
Level: LOW Operator: AD
Data Type: GC MULTI COMP SampleType: INDSOURCE
SpikeList File: IND.spk Quant Type: ESTD
Sublist File: IND.sub
Method File: \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Misc Info: WG342485,WG342485,WG342485-2,SQ4875-1

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
5 alpha-BHC	0.0500	0.0464	92.81	80-120
6 gamma-BHC	0.0500	0.0481	96.19	80-120
7 beta-BHC	0.0500	0.0464	92.74	80-120
8 delta-BHC	0.0500	0.0498	99.56	80-120
9 Heptachlor	0.0500	0.0489	97.73	80-120
10 Aldrin	0.0500	0.0488	97.69	80-120
13 Heptachlor Epoxide	0.0500	0.0492	98.32	80-120
15 gamma-Chlordane	0.0500	0.0423	84.53	80-120
17 alpha-Chlordane	0.0500	0.0469	93.81	80-120
19 4,4'-DDE	0.0500	0.0482	96.48	80-120
20 Endosulfan I	0.0500	0.0498	99.70	80-120
21 Dieldrin	0.0500	0.0458	91.63	80-120
23 Endrin	0.0500	0.0496	99.14	80-120
24 4,4'-DDD	0.0500	0.0464	92.72	80-120
26 Endosulfan II	0.0500	0.0475	94.94	80-120
27 4,4'-DDT	0.0500	0.0470	94.01	80-120
28 Endrin Aldehyde	0.0500	0.0485	96.93	80-120
29 Methoxychlor	0.0500	0.0444	88.80	80-120
32 Endosulfan sulfate	0.0500	0.0502	100.48	80-120
33 Endrin Ketone	0.0500	0.0502	100.46	80-120

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00062.D
Report Date: 20-Sep-2023 12:38

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa00508
Sample Matrix: LIQUID Fraction: PESTICIDE
Lab Smp Id: TOX IND 1.0
Level: LOW Operator: AD
Data Type: GC MULTI COMP SampleType: INDSOURCE
SpikeList File: tox_ind.spk Quant Type: ESTD
Sublist File: Tox.sub
Method File: \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Misc Info: WG342486,WG342486,WG342486,SQ4875-2

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
18 Toxaphene	1.00	1.02	102.00	80-120

Data File: 1QI00062.D
Report Date: 20-Sep-2023 12:38

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa00508
Sample Matrix: LIQUID Fraction: PESTICIDE
Lab Smp Id: TOX IND 1.0
Level: LOW Operator: AD
Data Type: GC MULTI COMP SampleType: INDSOURCE
SpikeList File: tox_ind.spk Quant Type: ESTD
Sublist File: Tox.sub
Method File: \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Misc Info: WG342486,WG342486,WG342486,SQ4875-2

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
18 Toxaphene	1.00	1.03	103.00	80-120

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00080.D
Report Date: 20-Sep-2023 12:38

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa00508
Sample Matrix: LIQUID Fraction: PESTICIDE
Lab Smp Id: TC IND 0.5
Level: LOW Operator: AD
Data Type: GC MULTI COMP SampleType: INDSOURCE
SpikeList File: tc_ind.spk Quant Type: ESTD
Sublist File: TC.sub
Method File: \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Misc Info: WG342487,WG342487,WG342487,SQ4875-3

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
14 Technical Chlordan	0.500	0.490	98.00	80-120

Data File: 1QI00080.D
Report Date: 20-Sep-2023 12:38

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa00508
Sample Matrix: LIQUID Fraction: PESTICIDE
Lab Smp Id: TC IND 0.5
Level: LOW Operator: AD
Data Type: GC MULTI COMP SampleType: INDSOURCE
SpikeList File: tc_ind.spk Quant Type: ESTD
Sublist File: TC.sub
Method File: \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Misc Info: WG342487,WG342487,WG342487,SQ4875-3

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
14 Technical Chlordan	0.500	0.454	90.80	80-120

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00049.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

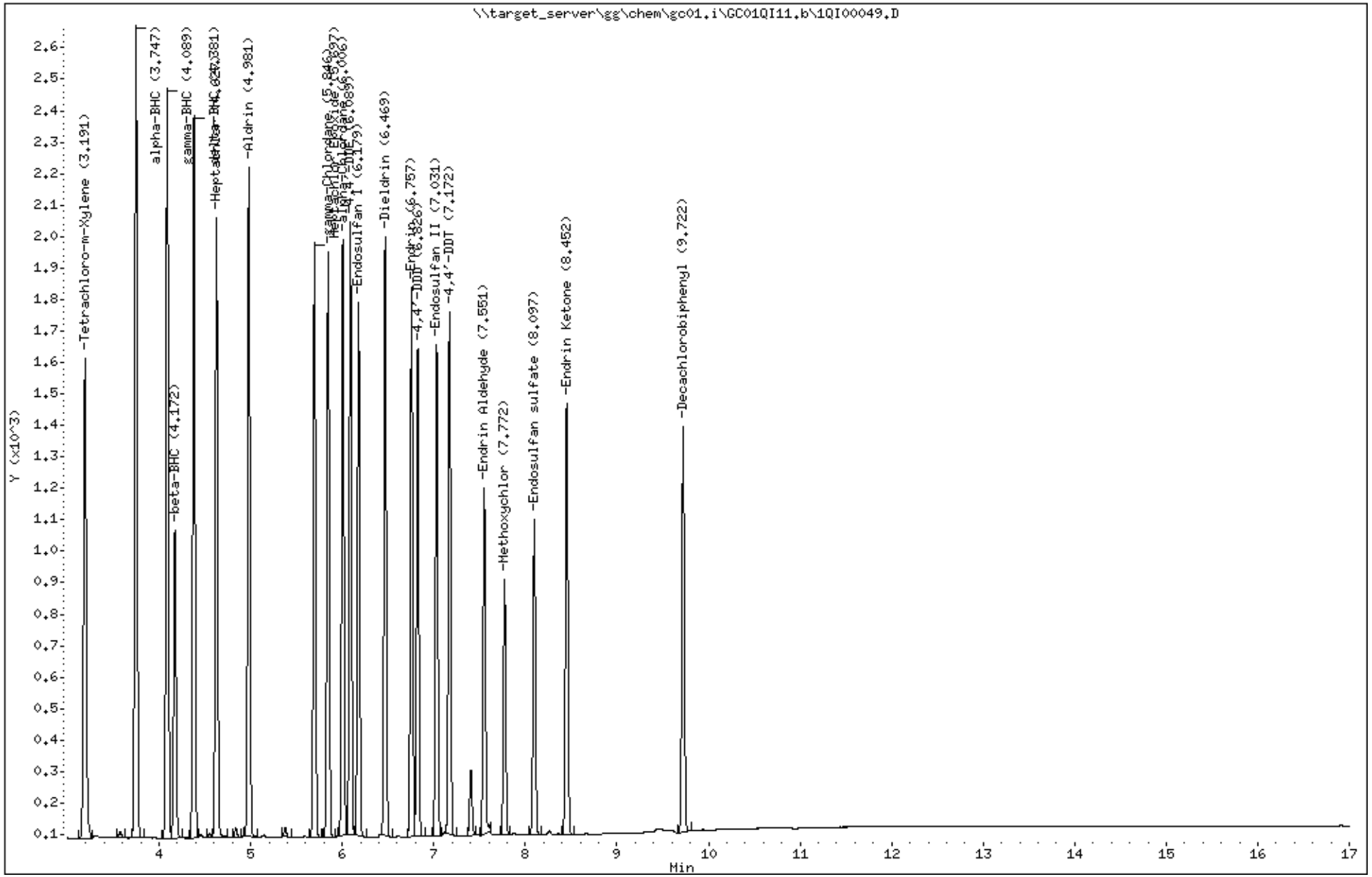
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Inj Date : 11-SEP-2023 20:49
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-2
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 20:49   Cal File: 1QI00049.D
Als bottle: 4   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.190	3.191	-0.001	1526	0.05000	0.0500	
	5 alpha-BHC	3.747	3.747	0.000	2581	0.05000	0.0500	
	6 gamma-BHC	4.088	4.089	-0.001	2384	0.05000	0.0500	
	7 beta-BHC	4.172	4.171	0.001	977	0.05000	0.0500	
	8 delta-BHC	4.380	4.381	-0.001	2294	0.05000	0.0500	
	9 Heptachlor	4.627	4.627	0.000	1971	0.05000	0.0500	
	10 Aldrin	4.980	4.981	-0.001	2124	0.05000	0.0500	
	13 Heptachlor Epoxide	5.697	5.697	0.000	1890	0.05000	0.0500	
	15 gamma-Chlordane	5.845	5.846	-0.001	1861	0.05000	0.0500	
	17 alpha-Chlordane	6.005	6.006	-0.001	1892	0.05000	0.0500	
	19 4,4'-DDE	6.088	6.089	-0.001	1949	0.05000	0.0500	
	20 Endosulfan I	6.178	6.179	-0.001	1696	0.05000	0.0500	
	21 Dieldrin	6.468	6.469	-0.001	1903	0.05000	0.0500	
	23 Endrin	6.757	6.757	0.000	1745	0.05000	0.0500	
	24 4,4'-DDD	6.825	6.826	-0.001	1549	0.05000	0.0500	
	26 Endosulfan II	7.030	7.031	-0.001	1563	0.05000	0.0500	
	27 4,4'-DDT	7.172	7.172	0.000	1659	0.05000	0.0500	
	28 Endrin Aldehyde	7.550	7.551	-0.001	1097	0.05000	0.0500	
	29 Methoxychlor	7.772	7.772	0.000	812	0.05000	0.0500	
	32 Endosulfan sulfate	8.097	8.097	0.000	1003	0.05000	0.0500	
	33 Endrin Ketone	8.452	8.452	0.000	1368	0.05000	0.0500	
$	34 Decachlorobiphenyl	9.722	9.722	0.000	1288	0.05000	0.0500	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00049.D
Date : 11-SEP-2023 20:49
Client ID:
Instrument: gc01.i
Sample Info: WG342485-2
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QI00049.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

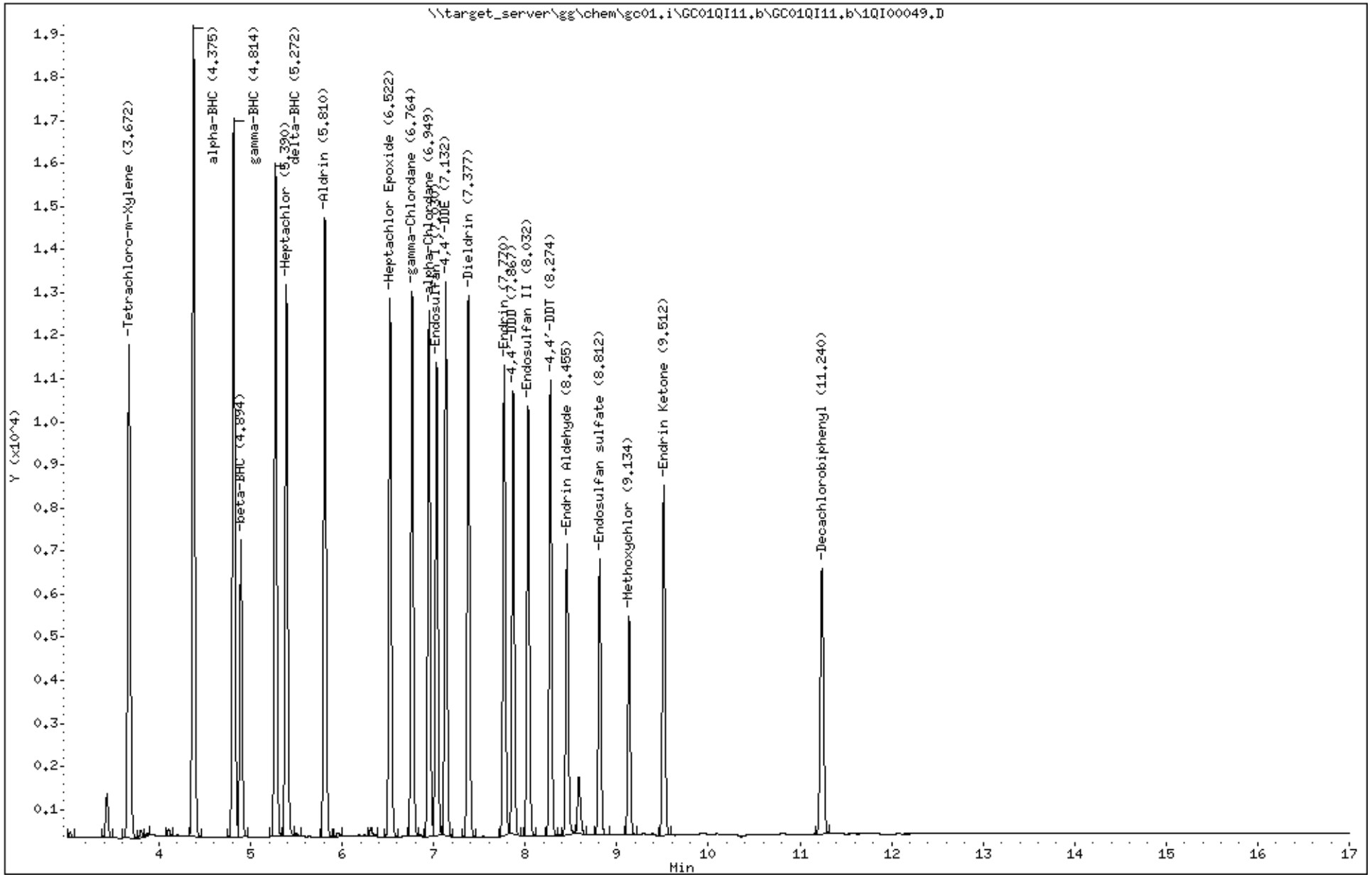
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Inj Date : 11-SEP-2023 20:49
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-2
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 20:49   Cal File: 1QI00049.D
Als bottle: 4   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.672	3.672	0.000	11446	0.05000	0.0500	
	5 alpha-BHC	4.375	4.375	0.000	18834	0.05000	0.0500	
	6 gamma-BHC	4.813	4.814	-0.001	16679	0.05000	0.0500	
	7 beta-BHC	4.893	4.894	-0.001	6897	0.05000	0.0500	
	8 delta-BHC	5.272	5.272	0.000	15631	0.05000	0.0500	
	9 Heptachlor	5.390	5.390	0.000	12796	0.05000	0.0500	
	10 Aldrin	5.810	5.810	0.000	14388	0.05000	0.0500	
	13 Heptachlor Epoxide	6.522	6.522	0.000	12511	0.05000	0.0500	
	15 gamma-Chlordane	6.763	6.764	-0.001	12660	0.05000	0.0500	
	17 alpha-Chlordane	6.948	6.949	-0.001	12209	0.05000	0.0500	
	19 4,4'-DDE	7.132	7.132	0.000	12862	0.05000	0.0500	
	20 Endosulfan I	7.030	7.030	0.000	10996	0.05000	0.0500	
	21 Dieldrin	7.377	7.377	0.000	12557	0.05000	0.0500	
	23 Endrin	7.770	7.770	0.000	10897	0.05000	0.0500	
	24 4,4'-DDD	7.867	7.867	0.000	10299	0.05000	0.0500	
	26 Endosulfan II	8.032	8.032	0.000	9986	0.05000	0.0500	
	27 4,4'-DDT	8.273	8.273	0.000	10578	0.05000	0.0500	
	28 Endrin Aldehyde	8.455	8.455	0.000	6763	0.05000	0.0500	
	29 Methoxychlor	9.133	9.134	-0.001	5068	0.05000	0.0500	
	32 Endosulfan sulfate	8.812	8.812	0.000	6406	0.05000	0.0500	
	33 Endrin Ketone	9.512	9.512	0.000	8127	0.05000	0.0500	
$	34 Decachlorobiphenyl	11.240	11.240	0.000	6175	0.05000	0.0500	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00049.D
Date : 11-SEP-2023 20:49
Client ID:
Instrument: gc01.i
Sample Info: WG342485-2
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00050.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

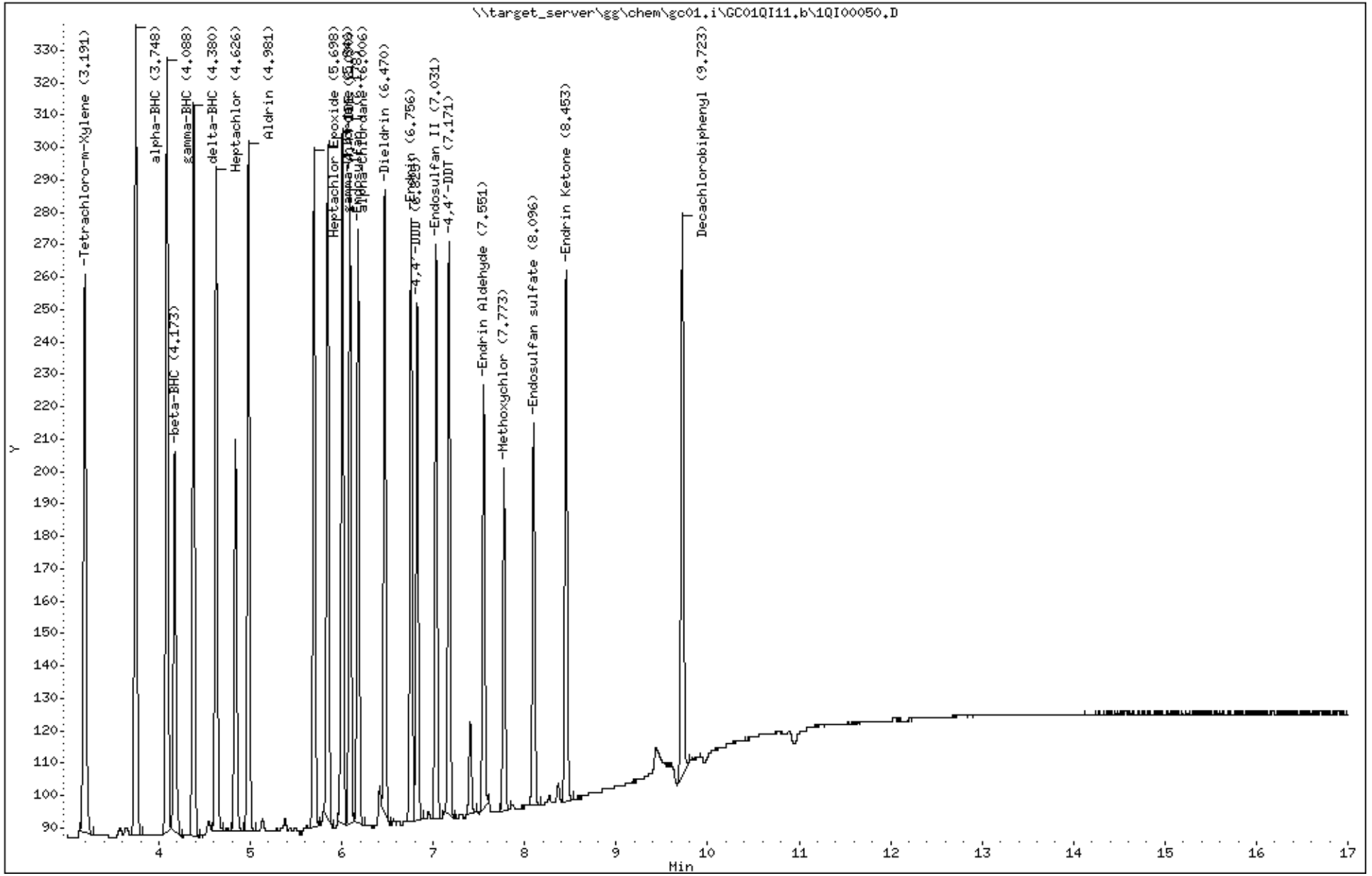
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Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-3
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 21:08   Cal File: 1QI00050.D
Als bottle: 5   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.191	3.191	0.000	173	0.00500	0.00531	
	5 alpha-BHC	3.747	3.747	0.000	250	0.00500	0.00492	
	6 gamma-BHC	4.087	4.089	-0.002	240	0.00500	0.00502	
	7 beta-BHC	4.172	4.171	0.001	117	0.00500	0.00545	
	8 delta-BHC	4.379	4.381	-0.002	227	0.00500	0.00497	
	9 Heptachlor	4.626	4.627	-0.001	205	0.00500	0.00510	
	10 Aldrin	4.981	4.981	0.000	213	0.00500	0.00501	
	13 Heptachlor Epoxide	5.697	5.697	0.000	210	0.00500	0.00526	
	15 gamma-Chlordane	5.846	5.846	0.000	208	0.00500	0.00528	
	17 alpha-Chlordane	6.006	6.006	0.000	215	0.00500	0.00532	
	19 4,4'-DDE	6.089	6.089	0.000	200	0.00500	0.00506	
	20 Endosulfan I	6.177	6.179	-0.002	184	0.00500	0.00520	
	21 Dieldrin	6.469	6.469	0.000	193	0.00500	0.00504	
	23 Endrin	6.756	6.757	-0.001	186	0.00500	0.00516	
	24 4,4'-DDD	6.824	6.826	-0.002	160	0.00500	0.00508	
	26 Endosulfan II	7.031	7.031	0.000	177	0.00500	0.00531	
	27 4,4'-DDT	7.171	7.172	-0.001	177	0.00500	0.00516	
	28 Endrin Aldehyde	7.551	7.551	0.000	131	0.00500	0.00544	
	29 Methoxychlor	7.772	7.772	0.000	106	0.00500	0.00566	
	32 Endosulfan sulfate	8.096	8.097	-0.001	118	0.00500	0.00540	
	33 Endrin Ketone	8.452	8.452	0.000	164	0.00500	0.00545	
$	34 Decachlorobiphenyl	9.722	9.722	0.000	174	0.00500	0.00575	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00050.D
Date : 11-SEP-2023 21:08
Client ID:
Instrument: gc01.i
Sample Info: WG342485-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QI00050.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

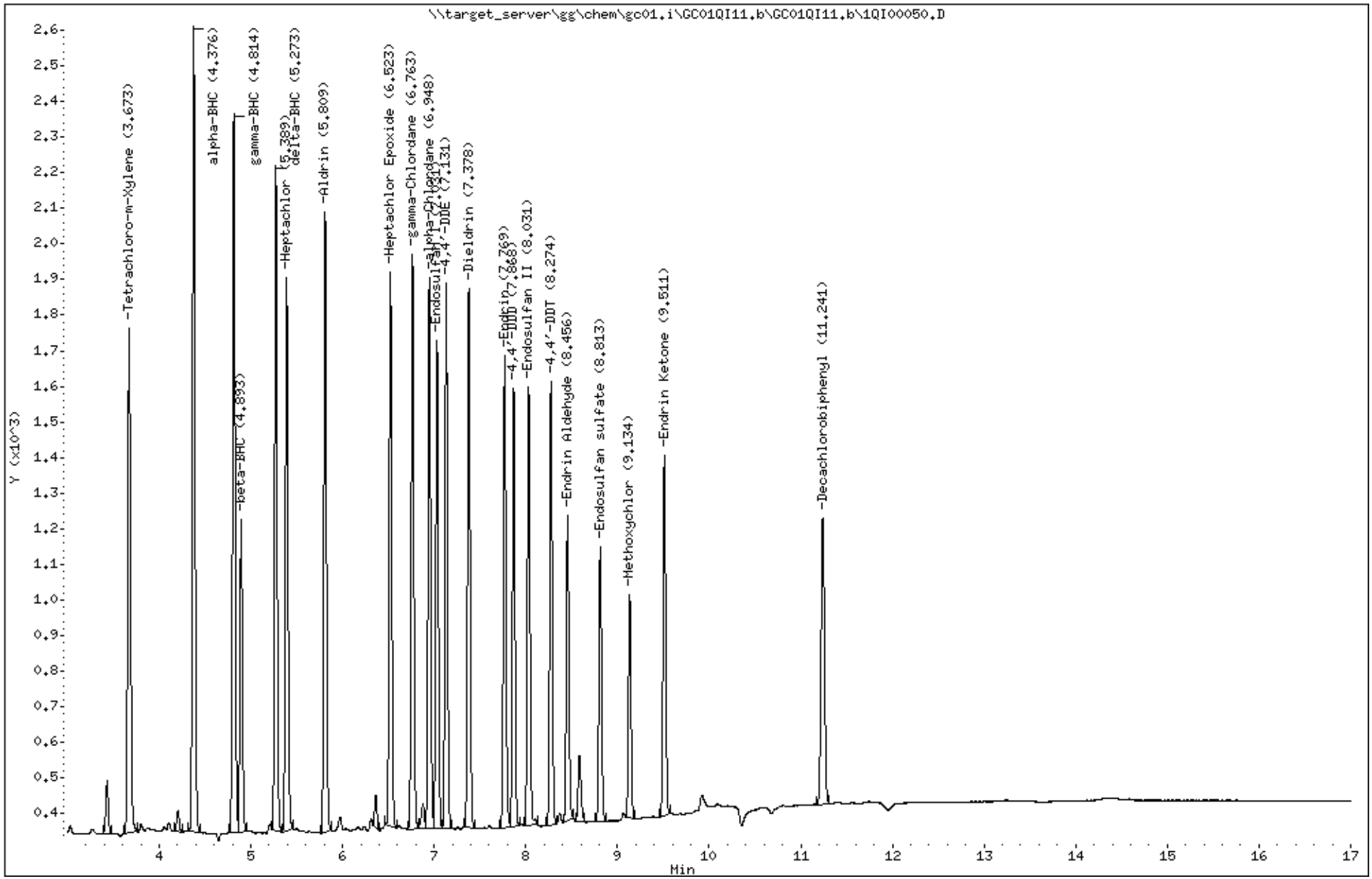
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Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-3
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 21:08   Cal File: 1QI00050.D
Als bottle: 5   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.672	3.672	0.000	1415	0.00500	0.00553	
	5 alpha-BHC	4.376	4.375	0.001	2261	0.00500	0.00546	
	6 gamma-BHC	4.814	4.814	0.000	2019	0.00500	0.00548	
	7 beta-BHC	4.892	4.894	-0.002	876	0.00500	0.00559	
	8 delta-BHC	5.272	5.272	0.000	1868	0.00500	0.00544	
	9 Heptachlor	5.389	5.390	-0.001	1554	0.00500	0.00548	
	10 Aldrin	5.809	5.810	-0.001	1739	0.00500	0.00547	
	13 Heptachlor Epoxide	6.522	6.522	0.000	1556	0.00500	0.00554	
	15 gamma-Chlordane	6.762	6.764	-0.002	1613	0.00500	0.00560	
	17 alpha-Chlordane	6.947	6.949	-0.002	1547	0.00500	0.00559	
	19 4,4'-DDE	7.131	7.132	-0.001	1529	0.00500	0.00543	
	20 Endosulfan I	7.031	7.030	0.001	1370	0.00500	0.00555	
	21 Dieldrin	7.377	7.377	0.000	1515	0.00500	0.00547	
	23 Endrin	7.769	7.770	-0.001	1323	0.00500	0.00548	
	24 4,4'-DDD	7.867	7.867	0.000	1230	0.00500	0.00544	
	26 Endosulfan II	8.031	8.032	-0.001	1231	0.00500	0.00552	
	27 4,4'-DDT	8.274	8.273	0.001	1247	0.00500	0.00541	
	28 Endrin Aldehyde	8.456	8.455	0.001	856	0.00500	0.00559	
	29 Methoxychlor	9.134	9.134	0.000	630	0.00500	0.00554	
	32 Endosulfan sulfate	8.812	8.812	0.000	770	0.00500	0.00546	
	33 Endrin Ketone	9.511	9.512	-0.001	1012	0.00500	0.00555	
$	34 Decachlorobiphenyl	11.241	11.240	0.001	805	0.00500	0.00566	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00050.D
Date : 11-SEP-2023 21:08
Client ID:
Instrument: gc01.i
Sample Info: WG342485-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

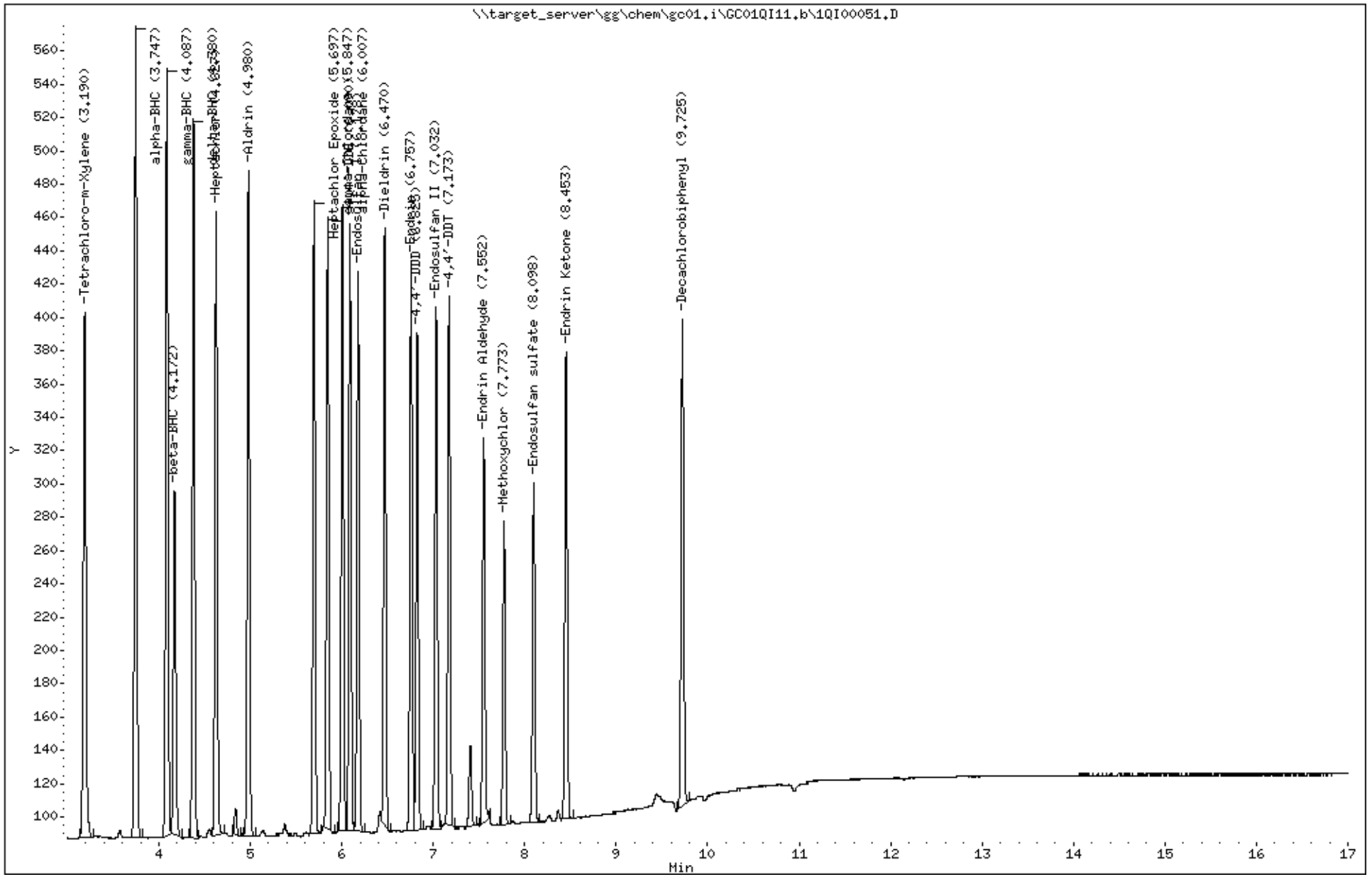
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Lab Smp Id: INDAB 0.01
Inj Date : 11-SEP-2023 21:28
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-4
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 21:28   Cal File: 1QI00051.D
Als bottle: 6   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.189	3.191	-0.002	315	0.01000	0.00978	
	5 alpha-BHC	3.746	3.747	-0.001	487	0.01000	0.00972	
	6 gamma-BHC	4.086	4.089	-0.003	462	0.01000	0.00977	
	7 beta-BHC	4.171	4.171	0.000	207	0.01000	0.00976	
	8 delta-BHC	4.379	4.381	-0.002	432	0.01000	0.00964	
	9 Heptachlor	4.626	4.627	-0.001	375	0.01000	0.00954	
	10 Aldrin	4.979	4.981	-0.002	399	0.01000	0.00958	
	13 Heptachlor Epoxide	5.696	5.697	-0.001	380	0.01000	0.00968	
	15 gamma-Chlordane	5.846	5.846	0.000	368	0.01000	0.00955	
	17 alpha-Chlordane	6.006	6.006	0.000	376	0.01000	0.00952	
	19 4,4'-DDE	6.089	6.089	0.000	364	0.01000	0.00946	
	20 Endosulfan I	6.178	6.179	-0.001	337	0.01000	0.00968	
	21 Dieldrin	6.469	6.469	0.000	359	0.01000	0.00957	
	23 Endrin	6.756	6.757	-0.001	342	0.01000	0.00965	
	24 4,4'-DDD	6.824	6.826	-0.002	299	0.01000	0.00966	
	26 Endosulfan II	7.031	7.031	0.000	313	0.01000	0.00958	
	27 4,4'-DDT	7.173	7.172	0.001	318	0.01000	0.00950	
	28 Endrin Aldehyde	7.551	7.551	0.000	232	0.01000	0.00976	
	29 Methoxychlor	7.773	7.772	0.001	183	0.01000	0.00985	
	32 Endosulfan sulfate	8.098	8.097	0.001	204	0.01000	0.00955	
	33 Endrin Ketone	8.453	8.452	0.001	280	0.01000	0.00953	
$	34 Decachlorobiphenyl	9.724	9.722	0.002	293	0.01000	0.00978	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00051.D
Date : 11-SEP-2023 21:28
Client ID:
Instrument: gc01.i
Sample Info: WG342485-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QI00051.D
Report Date: 20-Sep-2023 12:03

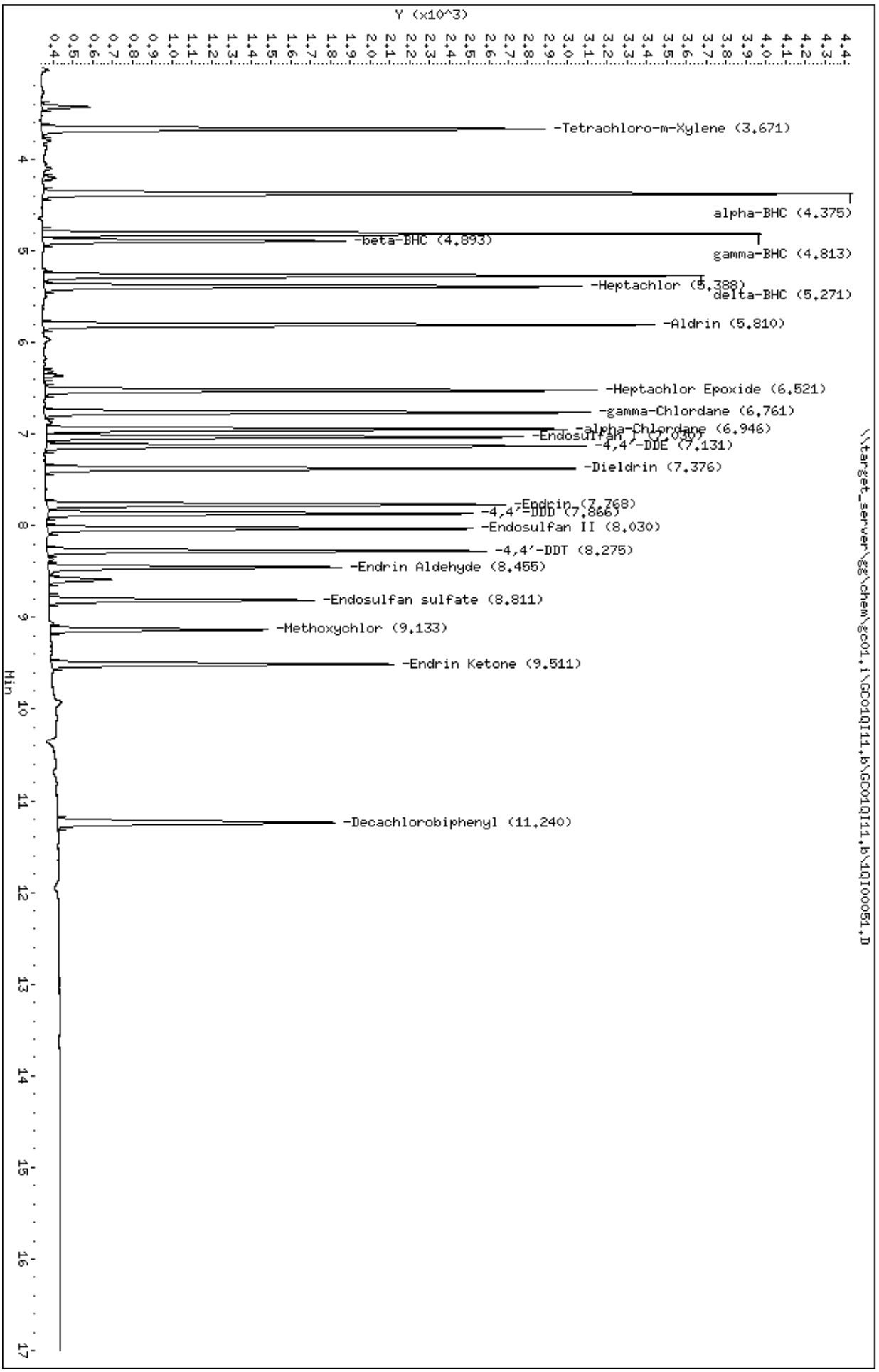
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00051.D
Lab Smp Id: INDAB 0.01
Inj Date : 11-SEP-2023 21:28
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-4
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 21:28   Cal File: 1QI00051.D
Als bottle: 6   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.671	3.672	-0.001	2540	0.01000	0.00995	
	5 alpha-BHC	4.374	4.375	-0.001	4089	0.01000	0.00991	
	6 gamma-BHC	4.813	4.814	-0.001	3632	0.01000	0.00990	
	7 beta-BHC	4.893	4.894	-0.001	1528	0.01000	0.00984	
	8 delta-BHC	5.271	5.272	-0.001	3333	0.01000	0.00981	
	9 Heptachlor	5.388	5.390	-0.002	2721	0.01000	0.00973	
	10 Aldrin	5.809	5.810	-0.001	3090	0.01000	0.00981	
	13 Heptachlor Epoxide	6.521	6.522	-0.001	2787	0.01000	0.00995	
	15 gamma-Chlordane	6.761	6.764	-0.003	2754	0.01000	0.00971	
	17 alpha-Chlordane	6.946	6.949	-0.003	2635	0.01000	0.00967	
	19 4,4'-DDE	7.131	7.132	-0.001	2730	0.01000	0.00980	
	20 Endosulfan I	7.029	7.030	-0.001	2414	0.01000	0.00985	
	21 Dieldrin	7.376	7.377	-0.001	2680	0.01000	0.00978	
	23 Endrin	7.768	7.770	-0.002	2315	0.01000	0.00973	
	24 4,4'-DDD	7.866	7.867	-0.001	2148	0.01000	0.00966	
	26 Endosulfan II	8.029	8.032	-0.003	2149	0.01000	0.00976	
	27 4,4'-DDT	8.274	8.273	0.001	2217	0.01000	0.00974	
	28 Endrin Aldehyde	8.454	8.455	-0.001	1485	0.01000	0.00979	
	29 Methoxychlor	9.133	9.134	-0.001	1098	0.01000	0.00977	
	32 Endosulfan sulfate	8.811	8.812	-0.001	1341	0.01000	0.00966	
	33 Endrin Ketone	9.511	9.512	-0.001	1727	0.01000	0.00964	
$	34 Decachlorobiphenyl	11.239	11.240	-0.001	1397	0.01000	0.00988	


Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00054.D
Date : 11-SEP-2023 21:28
Client ID:
Sample Info: WG342485-4
Purge Volume: 1.0
Column phase: ZB-Multiresidue-2
Instrument: gc01.i
Operator: AD
Column diameter: 0.53
\\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00054.D
Y (x10^3)
Min
-Tetrachloro-m-Xylene (3.671)
alpha-BHC (4.375)
-beta-BHC (4.893)
gamma-BHC (4.813)
-Heptachlor (5.388)
delta-BHC (5.271)
-Aldrin (5.810)
-Heptachlor Epoxide (6.521)
-gamma-Chlordane (6.761)
-alpha-Chlordane (6.946)
-Endosulfan I (7.050)
-4,4'-DDE (7.131)
-Dieldrin (7.376)
-Endrin (7.768)
-4,4'-DDD (7.866)
-Endosulfan II (8.030)
-4,4'-DDT (8.275)
-Endrin Aldehyde (8.455)
-Endosulfan sulfate (8.811)
-Methoxychlor (9.133)
-Endrin Ketone (9.511)
-Decachlorobiphenyl (11.240)

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00052.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

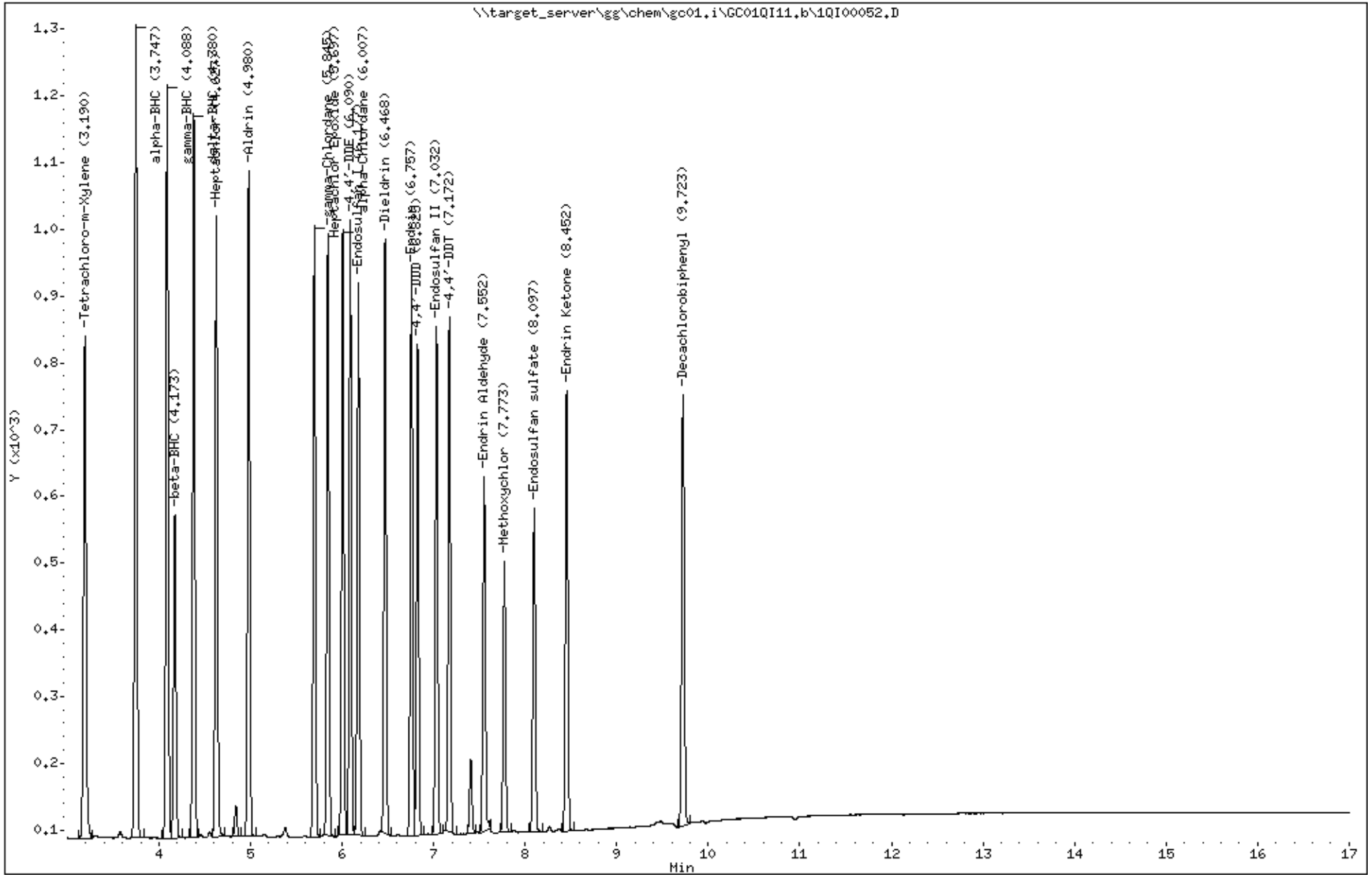
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Inj Date : 11-SEP-2023 21:47
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-5
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 21:47   Cal File: 1QI00052.D
Als bottle: 7   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.189	3.191	-0.002	754	0.02500	0.0238	
	5 alpha-BHC	3.746	3.747	-0.001	1218	0.02500	0.0245	
	6 gamma-BHC	4.088	4.089	-0.001	1129	0.02500	0.0241	
	7 beta-BHC	4.173	4.171	0.002	484	0.02500	0.0233	
	8 delta-BHC	4.379	4.381	-0.002	1084	0.02500	0.0244	
	9 Heptachlor	4.626	4.627	-0.001	930	0.02500	0.0240	
	10 Aldrin	4.979	4.981	-0.002	996	0.02500	0.0242	
	13 Heptachlor Epoxide	5.696	5.697	-0.001	916	0.02500	0.0237	
	15 gamma-Chlordane	5.844	5.846	-0.002	902	0.02500	0.0238	
	17 alpha-Chlordane	6.006	6.006	0.000	906	0.02500	0.0234	
	19 4,4'-DDE	6.089	6.089	0.000	920	0.02500	0.0242	
	20 Endosulfan I	6.176	6.179	-0.003	829	0.02500	0.0241	
	21 Dieldrin	6.468	6.469	-0.001	891	0.02500	0.0240	
	23 Endrin	6.756	6.757	-0.001	846	0.02500	0.0241	
	24 4,4'-DDD	6.824	6.826	-0.002	737	0.02500	0.0241	
	26 Endosulfan II	7.031	7.031	0.000	761	0.02500	0.0237	
	27 4,4'-DDT	7.171	7.172	-0.001	772	0.02500	0.0235	
	28 Endrin Aldehyde	7.551	7.551	0.000	531	0.02500	0.0229	
	29 Methoxychlor	7.773	7.772	0.001	405	0.02500	0.0225	
	32 Endosulfan sulfate	8.096	8.097	-0.001	484	0.02500	0.0232	
	33 Endrin Ketone	8.451	8.452	-0.001	661	0.02500	0.0231	
$	34 Decachlorobiphenyl	9.723	9.722	0.001	648	0.02500	0.0224	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00052.D
Date : 11-SEP-2023 21:47
Client ID:
Instrument: gc01.i
Sample Info: WG342485-5
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QI00052.D
Report Date: 20-Sep-2023 12:04

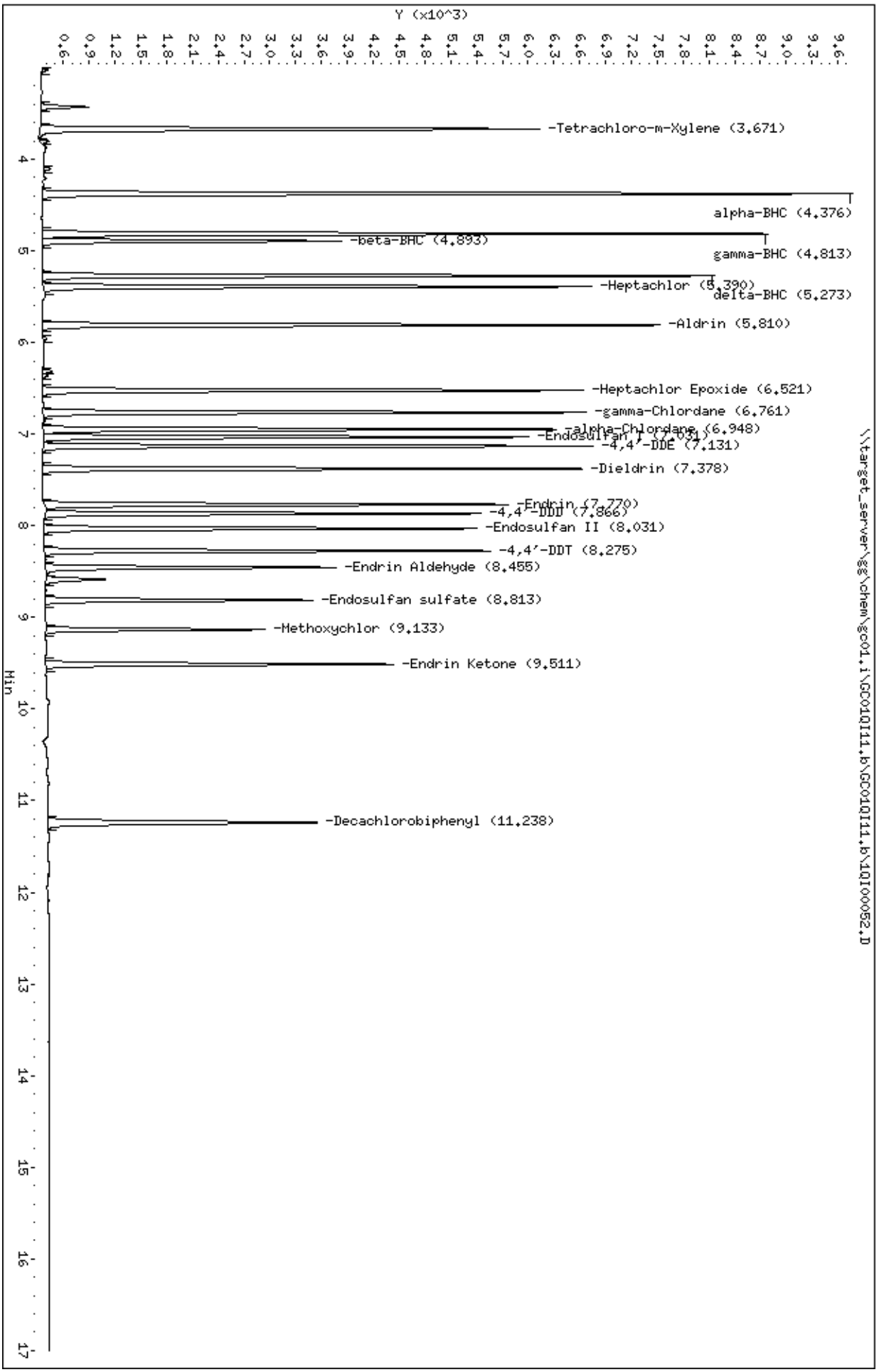
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00052.D
Lab Smp Id: INDAB 0.025
Inj Date : 11-SEP-2023 21:47
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-5
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 21:47   Cal File: 1QI00052.D
Als bottle: 7   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)	REVIEW CODE
$ 4	Tetrachloro-m-Xylene	3.671	3.672	-0.001	5808	0.02500	0.0233	
5	alpha-BHC	4.376	4.375	0.001	9411	0.02500	0.0233	
6	gamma-BHC	4.813	4.814	-0.001	8425	0.02500	0.0234	
7	beta-BHC	4.893	4.894	-0.001	3475	0.02500	0.0230	
8	delta-BHC	5.273	5.272	0.001	7813	0.02500	0.0235	
9	Heptachlor	5.389	5.390	-0.001	6373	0.02500	0.0233	
10	Aldrin	5.809	5.810	-0.001	7184	0.02500	0.0233	
13	Heptachlor Epoxide	6.521	6.522	-0.001	6283	0.02500	0.0230	
15	gamma-Chlordane	6.761	6.764	-0.003	6310	0.02500	0.0229	
17	alpha-Chlordane	6.948	6.949	-0.001	5958	0.02500	0.0226	
19	4,4'-DDE	7.131	7.132	-0.001	6385	0.02500	0.0234	
20	Endosulfan I	7.031	7.030	0.001	5635	0.02500	0.0235	
21	Dieldrin	7.378	7.377	0.001	6269	0.02500	0.0234	
23	Endrin	7.769	7.770	-0.001	5391	0.02500	0.0232	
24	4,4'-DDD	7.866	7.867	-0.001	5052	0.02500	0.0232	
26	Endosulfan II	8.031	8.032	-0.001	5022	0.02500	0.0233	
27	4,4'-DDT	8.274	8.273	0.001	5189	0.02500	0.0233	
28	Endrin Aldehyde	8.454	8.455	-0.001	3375	0.02500	0.0229	
29	Methoxychlor	9.133	9.134	-0.001	2542	0.02500	0.0232	
32	Endosulfan sulfate	8.813	8.812	0.001	3115	0.02500	0.0230	
33	Endrin Ketone	9.511	9.512	-0.001	4037	0.02500	0.0231	
$ 34	Decachlorobiphenyl	11.238	11.240	-0.002	3124	0.02500	0.0228	


Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00052.D
Date : 11-SEP-2023 21:47
Client ID:
Sample Info: WG342485-5
Purge Volume: 1.0
Column phase: ZB-Multiresidue-2
Instrument: gc01.i
Operator: AD
Column diameter: 0.53
\\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00052.D
Y (x10^3)
Min
-Tetrachloro-m-Xylene (3.671)
alpha-BHC (4.376)
-beta-BHC (4.893)
gamma-BHC (4.813)
-Heptachlor (5.390)
delta-BHC (5.273)
-Aldrin (5.810)
-Heptachlor Epoxide (6.521)
-gamma-Chlordane (6.761)
-alpha-Chlordane (6.948)
-Endosulfan I (7.051)
-4,4'-DDE (7.131)
-Dieldrin (7.378)
-Endrin (7.770)
-4,4'-DDD (7.866)
-Endosulfan II (8.031)
-4,4'-DDT (8.275)
-Endrin Aldehyde (8.455)
-Endosulfan sulfate (8.813)
-Methoxychlor (9.133)
-Endrin Ketone (9.511)
-Decachlorobiphenyl (11.238)

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00053.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

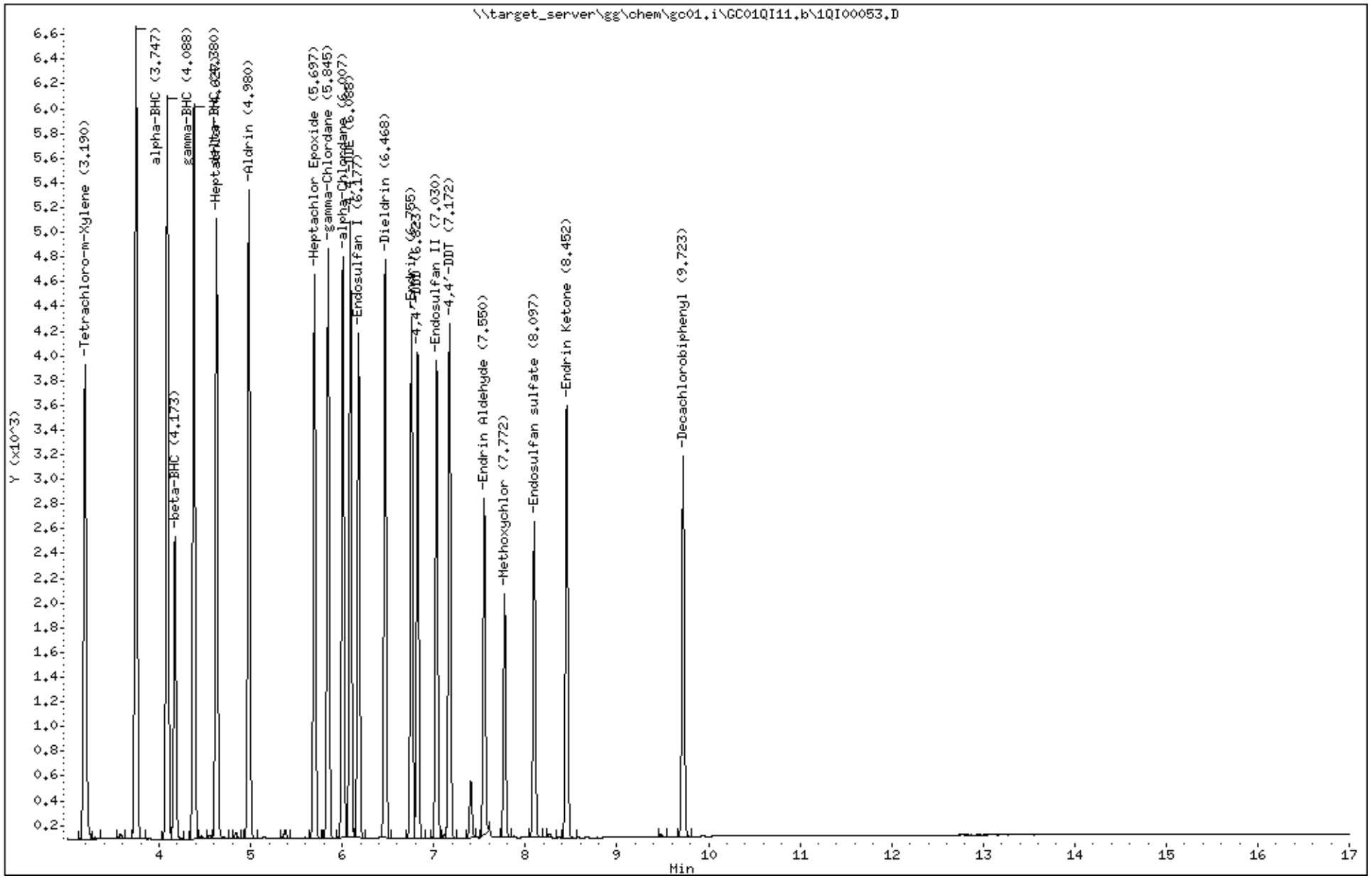
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Inj Date : 11-SEP-2023 22:07
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-6
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 22:07   Cal File: 1QI00053.D
Als bottle: 8   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)	REVIEW CODE
$ 4	Tetrachloro-m-Xylene	3.190	3.191	-0.001	3846	0.10000	0.116	
5	alpha-BHC	3.746	3.747	-0.001	6577	0.10000	0.124	
6	gamma-BHC	4.088	4.089	-0.001	6016	0.10000	0.122	
7	beta-BHC	4.173	4.171	0.002	2446	0.10000	0.114	
8	delta-BHC	4.380	4.381	-0.001	5953	0.10000	0.125	
9	Heptachlor	4.626	4.627	-0.001	5022	0.10000	0.122	
10	Aldrin	4.980	4.981	-0.001	5247	0.10000	0.121	
13	Heptachlor Epoxide	5.696	5.697	-0.001	4560	0.10000	0.114	
15	gamma-Chlordane	5.845	5.846	-0.001	4769	0.10000	0.120	
17	alpha-Chlordane	6.006	6.006	0.000	4696	0.10000	0.116	
19	4,4'-DDE	6.088	6.089	-0.001	4979	0.10000	0.123	
20	Endosulfan I	6.176	6.179	-0.003	4079	0.10000	0.114	
21	Dieldrin	6.468	6.469	-0.001	4682	0.10000	0.120	
23	Endrin	6.755	6.757	-0.002	4221	0.10000	0.116	
24	4,4'-DDD	6.823	6.826	-0.003	3931	0.10000	0.122	
26	Endosulfan II	7.030	7.031	-0.001	3859	0.10000	0.116	
27	4,4'-DDT	7.171	7.172	-0.001	4167	0.10000	0.120	
28	Endrin Aldehyde	7.550	7.551	-0.001	2717	0.10000	0.113	
29	Methoxychlor	7.771	7.772	-0.001	1972	0.10000	0.108	
32	Endosulfan sulfate	8.096	8.097	-0.001	2561	0.10000	0.117	
33	Endrin Ketone	8.451	8.452	-0.001	3498	0.10000	0.117	
$ 34	Decachlorobiphenyl	9.723	9.722	0.001	3079	0.10000	0.105	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00053.D
Date : 11-SEP-2023 22:07
Client ID:
Instrument: gc01.i
Sample Info: WG342485-6
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QI00053.D
Report Date: 20-Sep-2023 12:04

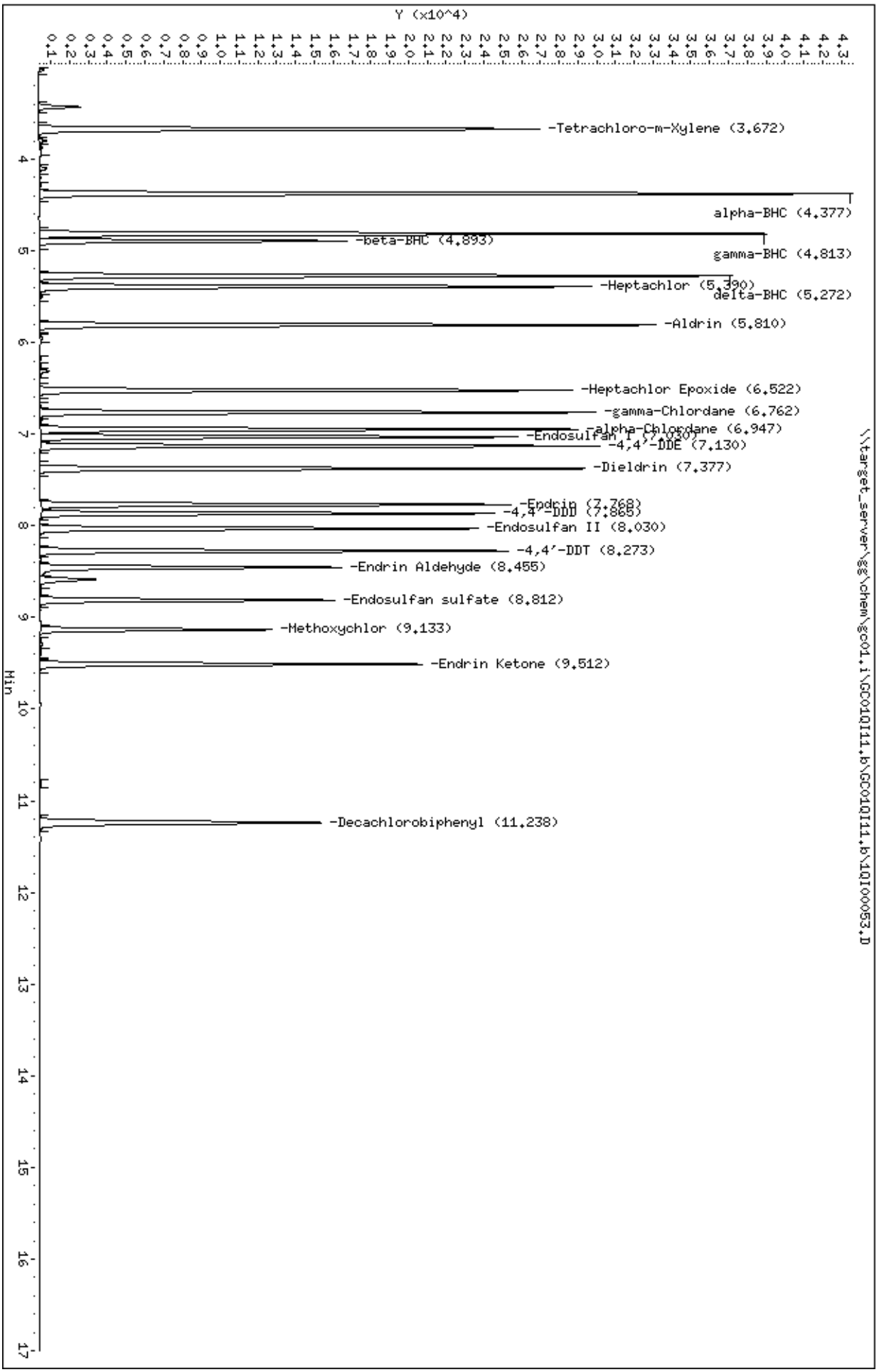
Katahdin Analytical Services

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Lab Smp Id: INDAB 0.1
Inj Date : 11-SEP-2023 22:07
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-6
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 22:07   Cal File: 1QI00053.D
Als bottle: 8   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.671	3.672	-0.001	26649	0.10000	0.105	
	5 alpha-BHC	4.376	4.375	0.001	43208	0.10000	0.106	
	6 gamma-BHC	4.813	4.814	-0.001	38666	0.10000	0.106	
	7 beta-BHC	4.893	4.894	-0.001	16340	0.10000	0.106	
	8 delta-BHC	5.271	5.272	-0.001	36838	0.10000	0.108	
	9 Heptachlor	5.389	5.390	-0.001	29336	0.10000	0.106	
	10 Aldrin	5.809	5.810	-0.001	32732	0.10000	0.105	
	13 Heptachlor Epoxide	6.521	6.522	-0.001	28340	0.10000	0.103	
	15 gamma-Chlordane	6.761	6.764	-0.003	29555	0.10000	0.106	
	17 alpha-Chlordane	6.946	6.949	-0.003	28597	0.10000	0.106	
	19 4,4'-DDE	7.129	7.132	-0.003	29721	0.10000	0.107	
	20 Endosulfan I	7.029	7.030	-0.001	25392	0.10000	0.104	
	21 Dieldrin	7.376	7.377	-0.001	28997	0.10000	0.106	
	23 Endrin	7.768	7.770	-0.002	24994	0.10000	0.106	
	24 4,4'-DDD	7.864	7.867	-0.003	24099	0.10000	0.108	
	26 Endosulfan II	8.029	8.032	-0.003	23262	0.10000	0.106	
	27 4,4'-DDT	8.273	8.273	0.000	24908	0.10000	0.109	
	28 Endrin Aldehyde	8.454	8.455	-0.001	16014	0.10000	0.107	
	29 Methoxychlor	9.133	9.134	-0.001	12315	0.10000	0.110	
	32 Endosulfan sulfate	8.811	8.812	-0.001	15653	0.10000	0.112	
	33 Endrin Ketone	9.511	9.512	-0.001	20349	0.10000	0.113	
$	34 Decachlorobiphenyl	11.238	11.240	-0.002	14895	0.10000	0.107	


Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00053.D
Date : 11-SEP-2023 22:07
Client ID:
Sample Info: WG342485-6
Purge Volume: 1.0
Column phase: ZB-Multiresidue-2
Instrument: gc01.i
Operator: AD
Column diameter: 0.53
\\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00053.D
Y (x10^4)
Min
-Tetrachloro-m-Xylene (3.672)
alpha-BHC (4.377)
-beta-BHC (4.893)
gamma-BHC (4.813)
-Heptachlor (5.390)
delta-BHC (5.272)
-Aldrin (5.810)
-Heptachlor Epoxide (6.522)
-gamma-Chlordane (6.762)
-alpha-Chlordane (6.947)
-Endosulfan I (7.030)
-4,4'-DDE (7.130)
-Dieldrin (7.377)
-Endrin (7.768)
-4,4'-DDD (7.865)
-Endosulfan II (8.030)
-4,4'-DDT (8.273)
-Endrin Aldehyde (8.455)
-Endosulfan sulfate (8.812)
-Methoxychlor (9.133)
-Endrin Ketone (9.512)
-Decachlorobiphenyl (11.238)

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00054.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

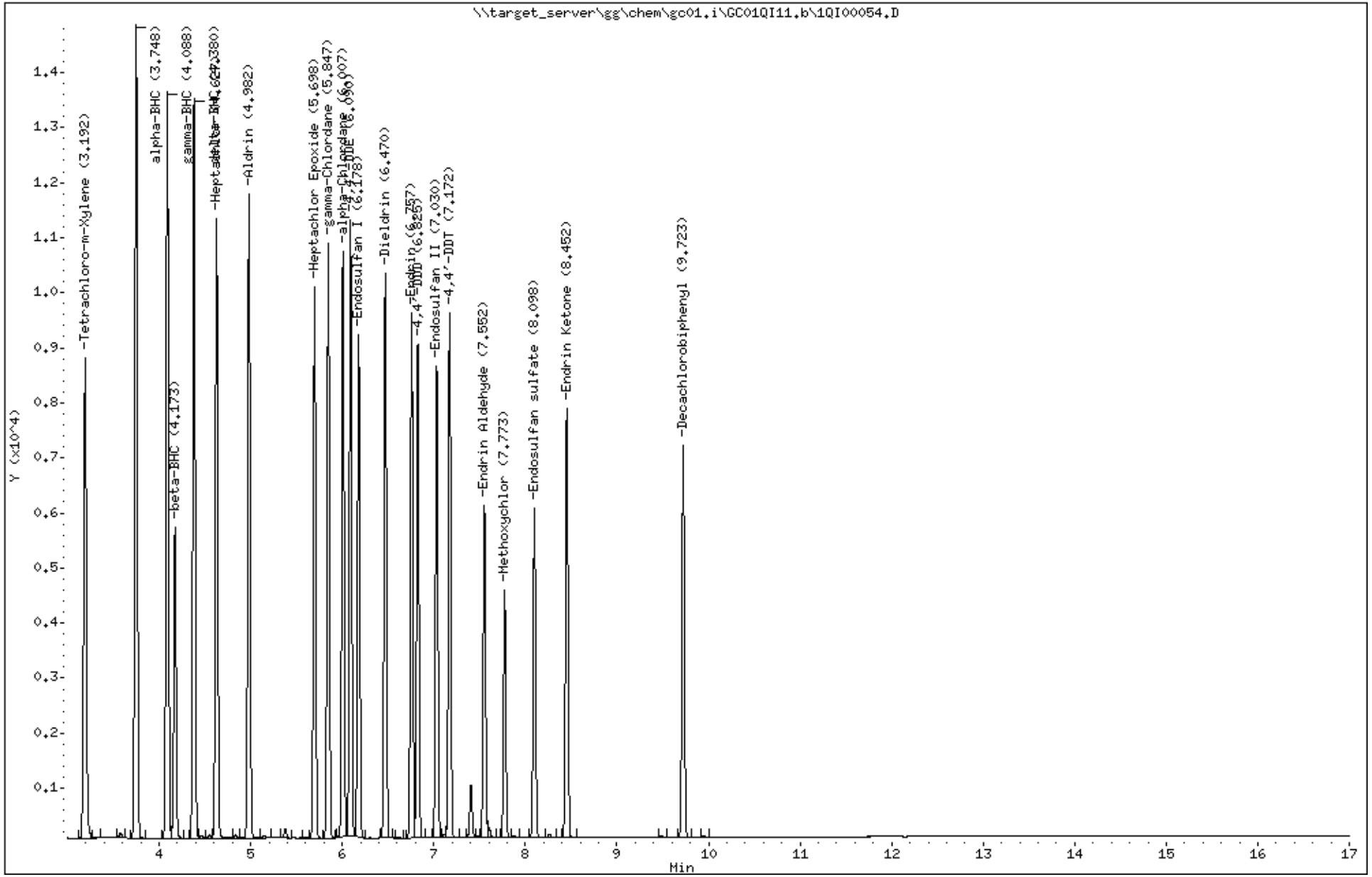
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00054.D
Lab Smp Id: INDAB 0.25
Inj Date : 11-SEP-2023 22:26
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-7
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 22:26   Cal File: 1QI00054.D
Als bottle: 9   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.191	3.191	0.000	8726	0.25000	0.262(A)	
	5 alpha-BHC	3.748	3.747	0.001	14770	0.25000	0.274(A)	
	6 gamma-BHC	4.088	4.089	-0.001	13548	0.25000	0.270(A)	
	7 beta-BHC	4.173	4.171	0.002	5656	0.25000	0.261(A)	
	8 delta-BHC	4.380	4.381	-0.001	13436	0.25000	0.277(A)	
	9 Heptachlor	4.626	4.627	-0.001	11240	0.25000	0.269(A)	
	10 Aldrin	4.981	4.981	0.000	11688	0.25000	0.266(A)	
	13 Heptachlor Epoxide	5.698	5.697	0.001	10013	0.25000	0.250(A)	
	15 gamma-Chlordane	5.846	5.846	0.000	10808	0.25000	0.267(A)	
	17 alpha-Chlordane	6.006	6.006	0.000	10636	0.25000	0.261(A)	
	19 4,4'-DDE	6.090	6.089	0.001	11186	0.25000	0.272(A)	
	20 Endosulfan I	6.178	6.179	-0.001	9133	0.25000	0.255(A)	
	21 Dieldrin	6.470	6.469	0.001	10258	0.25000	0.261(A)	
	23 Endrin	6.756	6.757	-0.001	9522	0.25000	0.259(A)	
	24 4,4'-DDD	6.825	6.826	-0.001	8950	0.25000	0.272(A)	
	26 Endosulfan II	7.030	7.031	-0.001	8571	0.25000	0.256(A)	
	27 4,4'-DDT	7.171	7.172	-0.001	9537	0.25000	0.271(A)	
	28 Endrin Aldehyde	7.551	7.551	0.000	6028	0.25000	0.251(A)	
	29 Methoxychlor	7.773	7.772	0.001	4487	0.25000	0.246	
	32 Endosulfan sulfate	8.098	8.097	0.001	5964	0.25000	0.269(A)	
	33 Endrin Ketone	8.451	8.452	-0.001	7783	0.25000	0.258(A)	
$	34 Decachlorobiphenyl	9.723	9.722	0.001	7125	0.25000	0.244	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00054.D
Date : 11-SEP-2023 22:26
Client ID:
Instrument: gc01.i
Sample Info: WG342485-7
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QI00054.D
Report Date: 20-Sep-2023 12:04

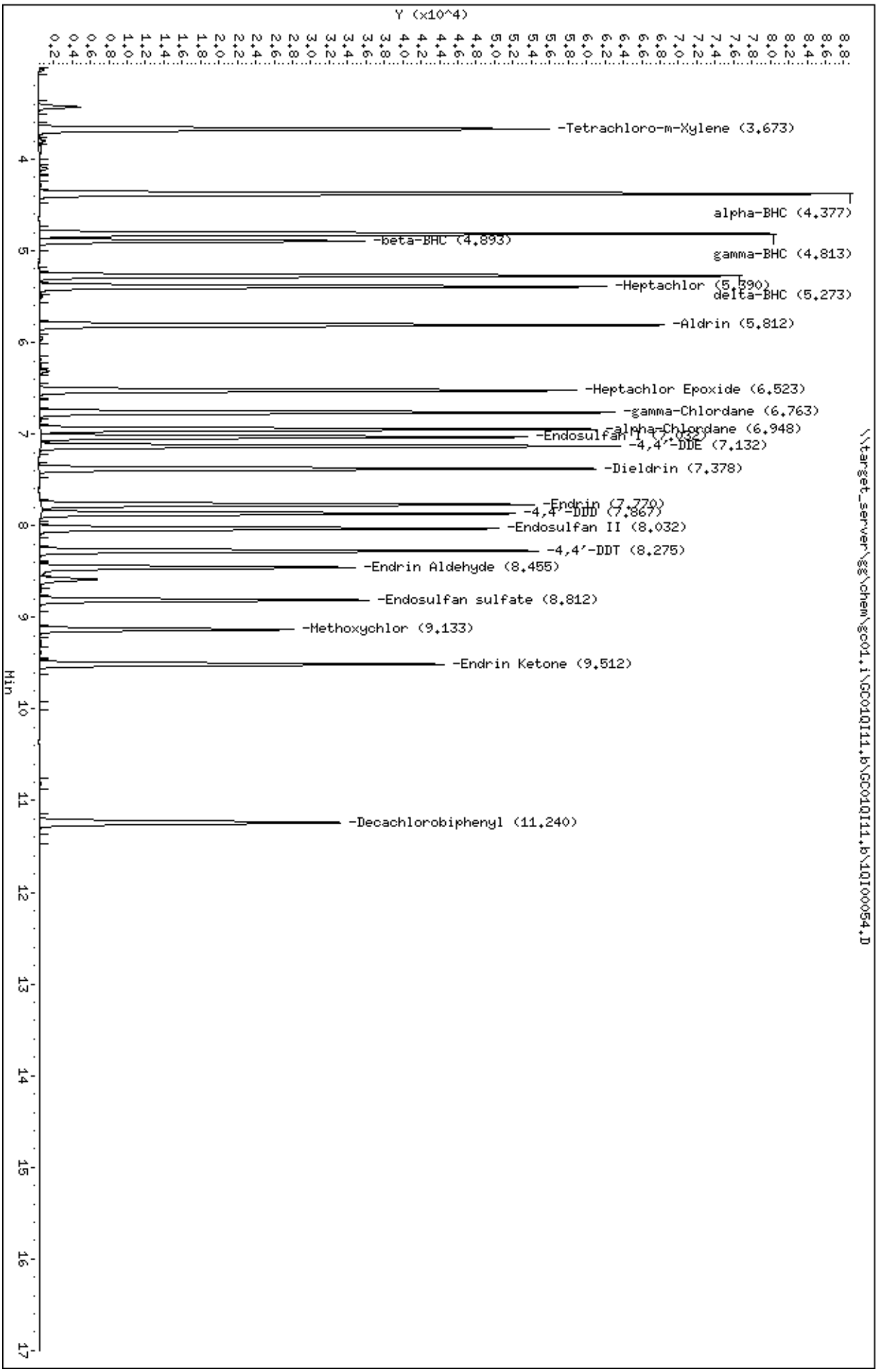
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00054.D
Lab Smp Id: INDAB 0.25
Inj Date : 11-SEP-2023 22:26
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-7
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 22:26   Cal File: 1QI00054.D
Als bottle: 9   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.673	3.672	0.001	55634	0.25000	0.224	
	5 alpha-BHC	4.376	4.375	0.001	88523	0.25000	0.221	
	6 gamma-BHC	4.813	4.814	-0.001	80224	0.25000	0.224	
	7 beta-BHC	4.893	4.894	-0.001	35412	0.25000	0.233	
	8 delta-BHC	5.273	5.272	0.001	76487	0.25000	0.229	
	9 Heptachlor	5.389	5.390	-0.001	61655	0.25000	0.226	
	10 Aldrin	5.811	5.810	0.001	68098	0.25000	0.223	
	13 Heptachlor Epoxide	6.523	6.522	0.001	58476	0.25000	0.218	
	15 gamma-Chlordane	6.763	6.764	-0.001	62637	0.25000	0.228	
	17 alpha-Chlordane	6.948	6.949	-0.001	60679	0.25000	0.230	
	19 4,4'-DDE	7.131	7.132	-0.001	63095	0.25000	0.231	
	20 Endosulfan I	7.031	7.030	0.001	53021	0.25000	0.223	
	21 Dieldrin	7.378	7.377	0.001	60553	0.25000	0.226	
	23 Endrin	7.769	7.770	-0.001	53775	0.25000	0.231	
	24 4,4'-DDD	7.866	7.867	-0.001	51583	0.25000	0.235	
	26 Endosulfan II	8.031	8.032	-0.001	49916	0.25000	0.231	
	27 4,4'-DDT	8.274	8.273	0.001	54310	0.25000	0.240	
	28 Endrin Aldehyde	8.454	8.455	-0.001	34416	0.25000	0.233	
	29 Methoxychlor	9.133	9.134	-0.001	27577	0.25000	0.246	
	32 Endosulfan sulfate	8.811	8.812	-0.001	35827	0.25000	0.256(A)	
	33 Endrin Ketone	9.511	9.512	-0.001	44019	0.25000	0.245	
$	34 Decachlorobiphenyl	11.239	11.240	-0.001	32752	0.25000	0.237	


Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00054.D
Date : 11-SEP-2023 22:26
Client ID:
Sample Info: WG342485-7
Purge Volume: 1.0
Column phase: ZB-Multiresidue-2
Instrument: gc01.i
Operator: AD
Column diameter: 0.53
\\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00054.D
Y (x10^4)
Min
-Tetrachloro-m-Xylene (3.673)
alpha-BHC (4.377)
-beta-BHC (4.893)
gamma-BHC (4.813)
-Heptachlor (5.390)
delta-BHC (5.273)
-Aldrin (5.812)
-Heptachlor Epoxide (6.523)
-gamma-Chlordane (6.763)
-alpha-Chlordane (6.948)
-Endosulfan I (7.035)
-4,4'-DDE (7.132)
-Dieldrin (7.378)
-Endrin (7.779)
-4,4'-DDD (7.867)
-Endosulfan II (8.032)
-4,4'-DDT (8.275)
-Endrin Aldehyde (8.455)
-Endosulfan sulfate (8.812)
-Methoxychlor (9.133)
-Endrin Ketone (9.512)
-Decachlorobiphenyl (11.240)

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00055.D
Report Date: 20-Sep-2023 12:03

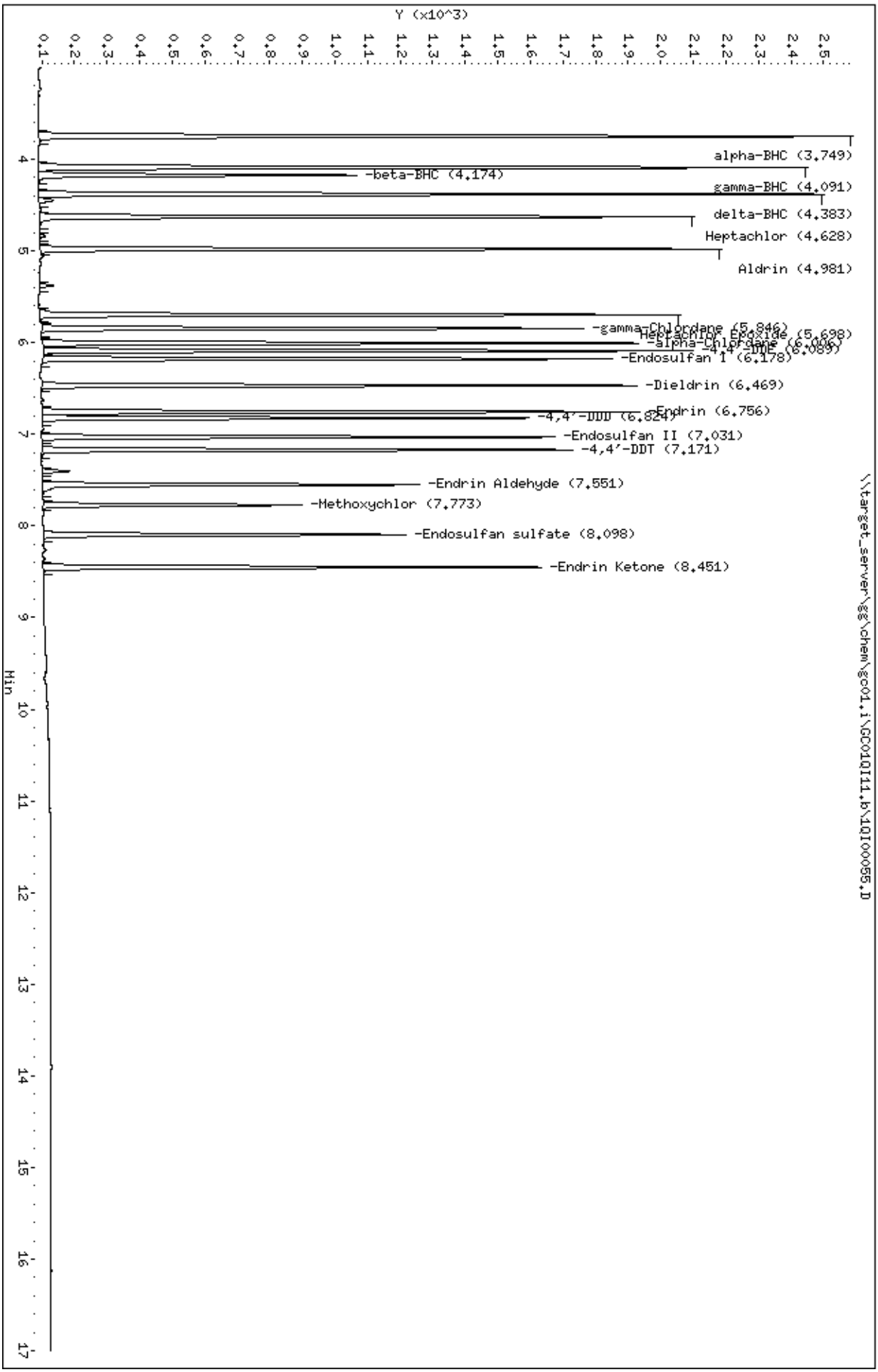
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00055.D
Lab Smp Id: INDAB IND 0.05
Inj Date : 11-SEP-2023 22:46
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-8
Misc Info : WG342485,WG342485,WG342485-2,SQ4875-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 22:26   Cal File: 1QI00054.D
Als bottle: 10   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: IND.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/L)	REVIEW CODE
5 alpha-BHC	3.749	3.747	0.002	2501	0.04633	0.0463	
6 gamma-BHC	4.090	4.089	0.001	2363	0.04704	0.0470	
7 beta-BHC	4.174	4.171	0.003	977	0.04506	0.0451	
8 delta-BHC	4.382	4.381	0.001	2411	0.04969	0.0497	
9 Heptachlor	4.627	4.627	0.000	2012	0.04823	0.0482	
10 Aldrin	4.980	4.981	-0.001	2093	0.04756	0.0476	
13 Heptachlor Epoxide	5.697	5.697	0.000	1967	0.04916	0.0492	
15 gamma-Chlordane	5.845	5.846	-0.001	1663	0.04113	0.0411	
17 alpha-Chlordane	6.005	6.006	-0.001	1830	0.04497	0.0450	
19 4,4'-DDE	6.089	6.089	0.000	1995	0.04852	0.0485	
20 Endosulfan I	6.177	6.179	-0.002	1752	0.04892	0.0489	
21 Dieldrin	6.469	6.469	0.000	1828	0.04646	0.0465	
23 Endrin	6.755	6.757	-0.002	1837	0.05000	0.0500	
24 4,4'-DDD	6.824	6.826	-0.002	1493	0.04536	0.0454	
26 Endosulfan II	7.030	7.031	-0.001	1578	0.04704	0.0470	
27 4,4'-DDT	7.170	7.172	-0.002	1629	0.04631	0.0463	
28 Endrin Aldehyde	7.550	7.551	-0.001	1160	0.04838	0.0484	
29 Methoxychlor	7.772	7.772	0.000	797	0.04363	0.0436	
32 Endosulfan sulfate	8.097	8.097	0.000	1114	0.05030	0.0503	
33 Endrin Ketone	8.450	8.452	-0.002	1529	0.05077	0.0508	


Data File: \\target_server\gs\chem\gc01.i\GC01Q111.b\1Q100055.D
Date : 11-SEP-2023 22:46
Client ID:
Sample Info: WG342485-8
Purge Volume: 1.0
Column phase: ZB-Multiresidue-1
Instrument: gc01.i
Operator: AD
Column diameter: 0.53
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alpha-BHC (3.749)
-beta-BHC (4.174)
gamma-BHC (4.091)
delta-BHC (4.383)
Heptachlor (4.628)
Aldrin (4.981)
-gamma-Chlordane (5.846)
Heptachlor Epoxide (5.698)
-alpha-Chlordane (6.006)
-4,4'-DDE (6.089)
-Endosulfan I (6.178)
-Dieldrin (6.469)
-Endrin (6.756)
-4,4'-DDD (6.824)
-Endosulfan II (7.031)
-4,4'-DDT (7.171)
-Endrin Aldehyde (7.551)
-Methoxychlor (7.773)
-Endosulfan sulfate (8.098)
-Endrin Ketone (8.451)
Min

Data File: 1QI00055.D
Report Date: 20-Sep-2023 12:04

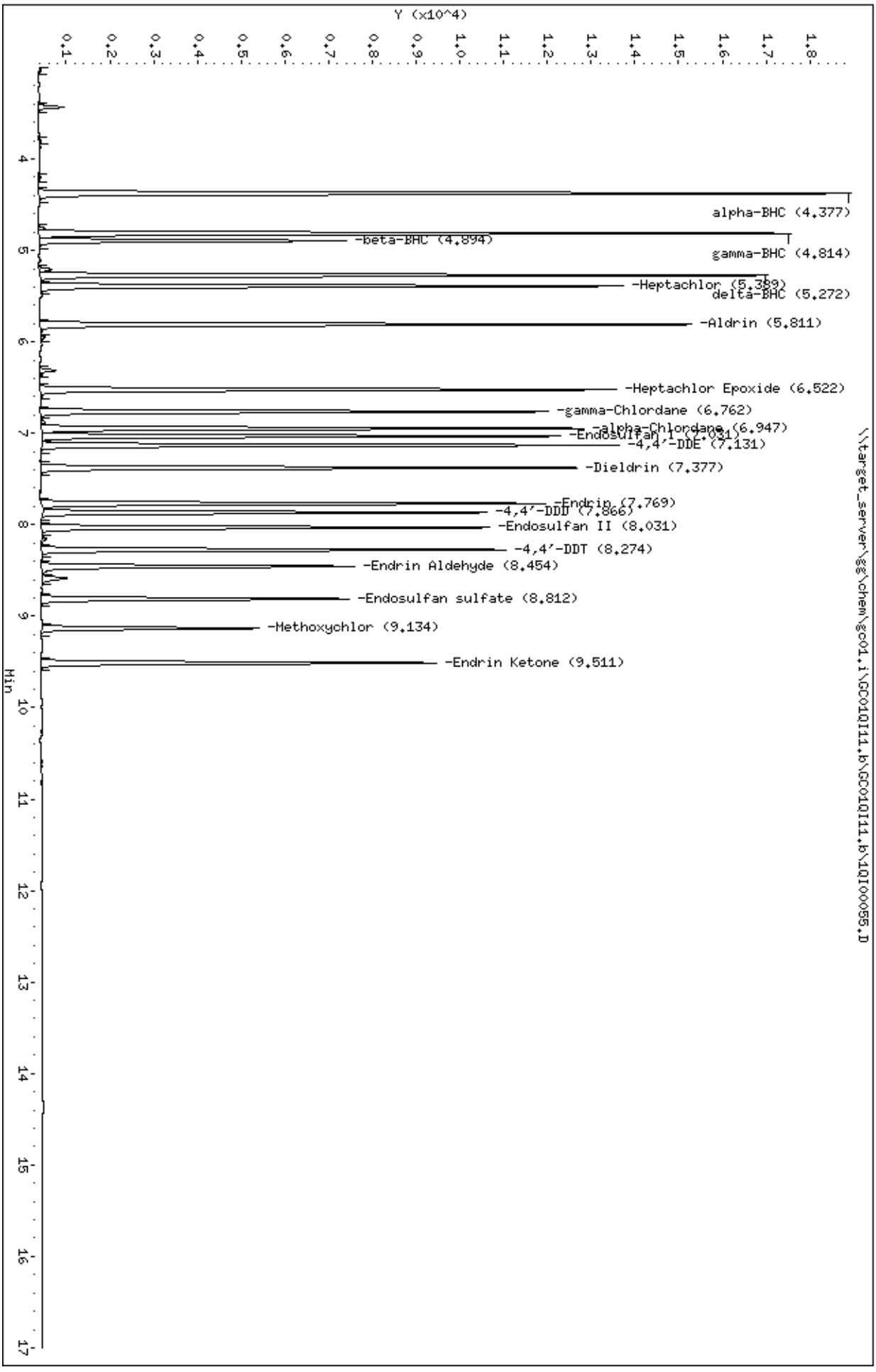
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00055.D
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Inj Date : 11-SEP-2023 22:46
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-8
Misc Info : WG342485,WG342485,WG342485-2,SQ4875-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 22:26   Cal File: 1QI00054.D
Als bottle: 10   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: IND.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
						ON-COLUMN	FINAL	
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/L)	REVIEW CODE
5	alpha-BHC	4.377	4.375	0.002	18565	0.04640	0.0464	
6	gamma-BHC	4.814	4.814	0.000	17195	0.04809	0.0481	
7	beta-BHC	4.894	4.894	0.000	7033	0.04637	0.0464	
8	delta-BHC	5.272	5.272	0.000	16646	0.04978	0.0498	
9	Heptachlor	5.389	5.390	-0.001	13305	0.04886	0.0489	
10	Aldrin	5.810	5.810	0.000	14911	0.04884	0.0488	
13	Heptachlor Epoxide	6.522	6.522	0.000	13181	0.04916	0.0492	
15	gamma-Chlordane	6.762	6.764	-0.002	11621	0.04227	0.0423	
17	alpha-Chlordane	6.947	6.949	-0.002	12383	0.04690	0.0469	
19	4,4'-DDE	7.130	7.132	-0.002	13194	0.04824	0.0482	
20	Endosulfan I	7.030	7.030	0.000	11854	0.04985	0.0498	
21	Dieldrin	7.377	7.377	0.000	12256	0.04581	0.0458	
23	Endrin	7.769	7.770	-0.001	11523	0.04957	0.0496	
24	4,4'-DDD	7.865	7.867	-0.002	10170	0.04636	0.0464	
26	Endosulfan II	8.030	8.032	-0.002	10238	0.04747	0.0475	
27	4,4'-DDT	8.274	8.273	0.001	10627	0.04700	0.0470	
28	Endrin Aldehyde	8.454	8.455	-0.001	7171	0.04847	0.0485	
29	Methoxychlor	9.134	9.134	0.000	4975	0.04440	0.0444	
32	Endosulfan sulfate	8.812	8.812	0.000	7039	0.05024	0.0502	
33	Endrin Ketone	9.510	9.512	-0.002	9030	0.05023	0.0502	


Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00055.D
Date : 11-SEP-2023 22:46
Client ID:
Sample Info: WG342485-8
Purge Volume: 1.0
Column phase: ZB-Multiresidue-2
Instrument: gc01.i
Operator: AD
Column diameter: 0.53
\\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00055.D
Y (x10^4)
Min
alpha-BHC (4.377)
-beta-BHC (4.894)
gamma-BHC (4.814)
-Heptachlor (5.389)
delta-BHC (5.272)
-Aldrin (5.811)
-Heptachlor Epoxide (6.522)
-gamma-Chlordane (6.762)
-alpha-Chlordane (6.947)
-Endosulfan I (7.031)
-4,4'-DDE (7.131)
-Dieldrin (7.377)
-Endrin (7.769)
-4,4'-DDD (7.866)
-Endosulfan II (8.031)
-4,4'-DDT (8.274)
-Endrin Aldehyde (8.454)
-Endosulfan sulfate (8.812)
-Methoxychlor (9.134)
-Endrin Ketone (9.511)

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00056.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00056.D
Lab Smp Id: TOX 1.0
Inj Date : 11-SEP-2023 23:05
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-1
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 23:05   Cal File: 1QI00056.D
Als bottle: 11   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

AD
12:45 pm, Sep 20, 2023

AMOUNTS

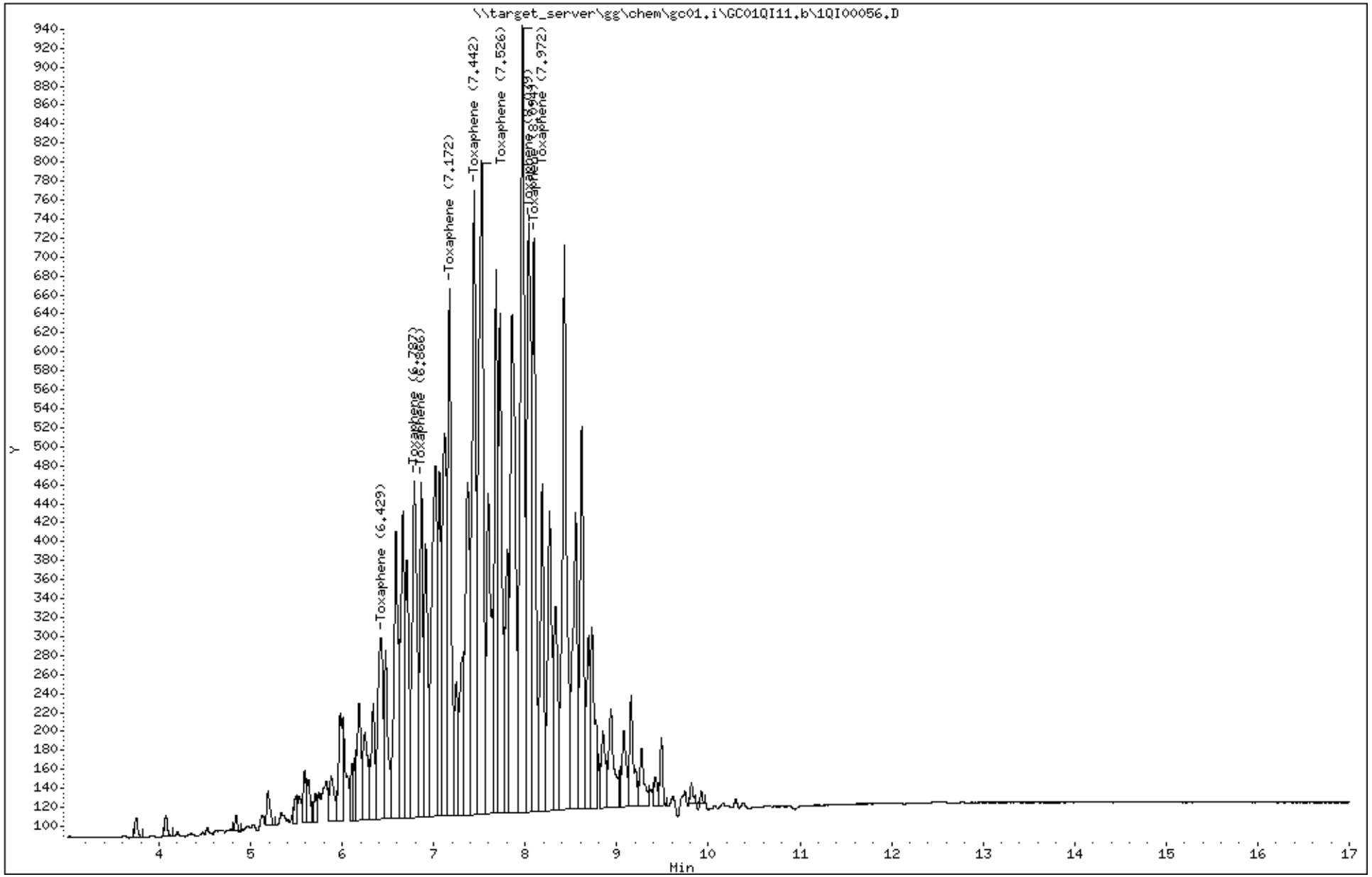
RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
6.422	6.422	0.000	190	1.00000	1.00	80.00- 120.00	100.00(M)	M5
6.787	6.787	0.000	354	1.00000	1.00	149.94- 224.90	186.32	M5
6.865	6.866	-0.001	352	1.00000	1.00	156.57- 234.85	185.26	M5
7.172	7.172	0.000	555	1.00000	1.00	235.64- 353.46	292.11	M5
7.442	7.442	0.000	657	1.00000	1.00	280.95- 421.43	345.79	M5
7.525	7.526	-0.001	688	1.00000	1.00	297.90- 446.86	362.11	M5
7.972	7.972	0.000	829	1.00000	1.00	351.22- 526.84	436.32	M5
8.037	8.037	0.000	619	1.00000	1.00	277.63- 416.45	325.79	M5
8.094	8.093	0.001	604	1.00000	1.00	270.52- 405.78	317.89	M5

Average of Peak Amounts = 1.00000

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00056.D
Date : 11-SEP-2023 23:05
Client ID:
Instrument: gc01.i
Sample Info: WG342486-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QI00056.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00056.D
Lab Smp Id: TOX 1.0
Inj Date : 11-SEP-2023 23:05
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-1
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 23:05   Cal File: 1QI00056.D
Als bottle: 11   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

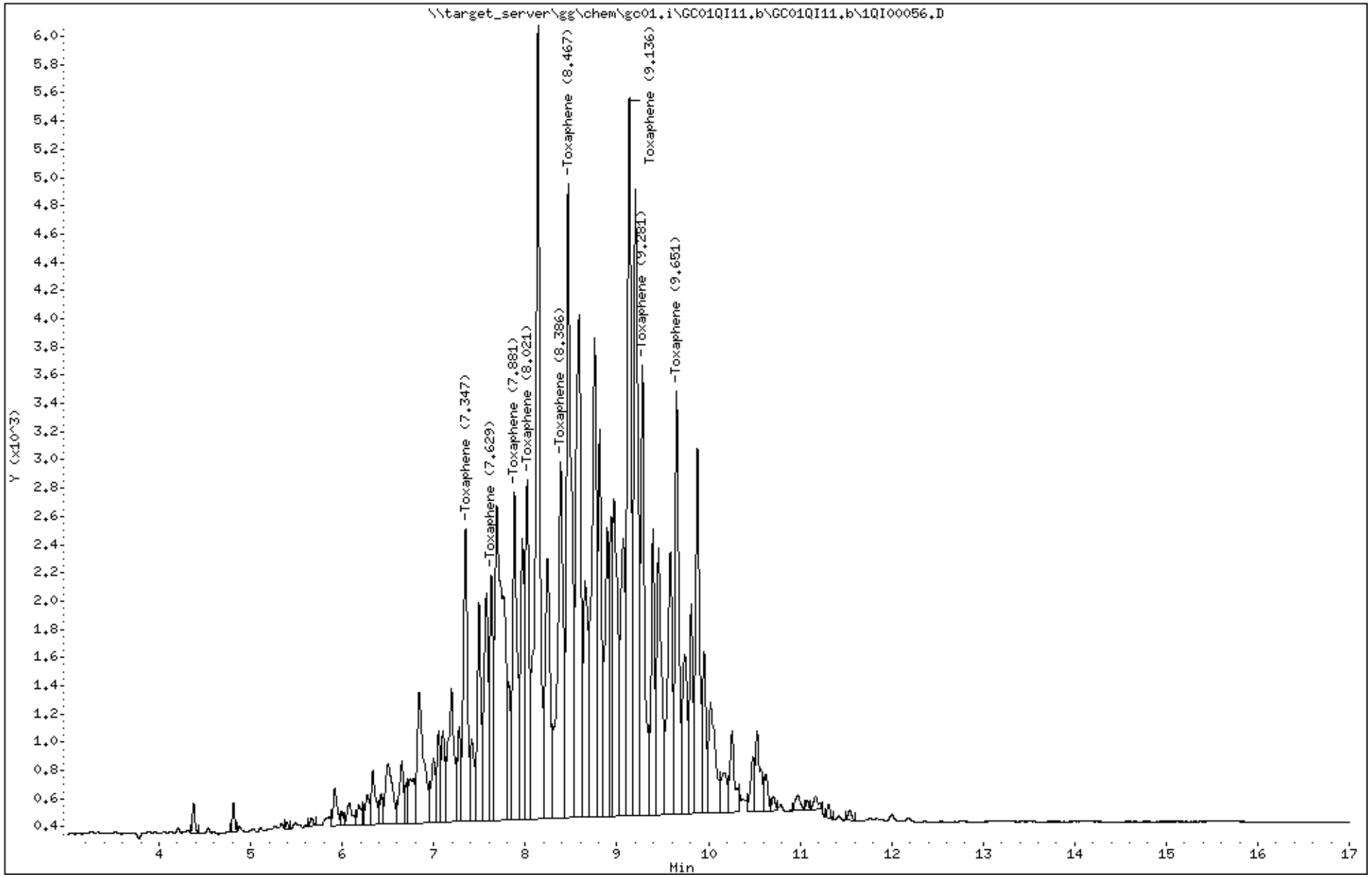
AD
12:45 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
7.347	7.347	0.000	2067	1.00000	1.00	80.00- 120.00	100.00(M)	M5
7.628	7.629	-0.001	1737	1.00000	1.00	67.76- 101.65	84.03	M5
7.880	7.881	-0.001	2317	1.00000	1.00	90.15- 135.22	112.09	M5
8.020	8.021	-0.001	2404	1.00000	1.00	97.24- 145.85	116.30	M5
8.385	8.385	0.000	2523	1.00000	1.00	102.46- 153.68	122.06	M5
8.467	8.467	0.000	4489	1.00000	1.00	174.66- 262.00	217.17	M5
9.135	9.136	-0.001	5082	1.00000	1.00	202.68- 304.02	245.86	M5
9.280	9.281	-0.001	3186	1.00000	1.00	135.88- 203.82	154.14	M5
9.650	9.651	-0.001	2999	1.00000	1.00	127.05- 190.58	145.09	M5
		Average of Peak Amounts =		1.00000				

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00056.D
Date : 11-SEP-2023 23:05
Client ID:
Instrument: gc01.i
Sample Info: WG342486-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00057.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00057.D
Lab Smp Id: TOX 0.1
Inj Date : 11-SEP-2023 23:25
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-2
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 23:25   Cal File: 1QI00057.D
Als bottle: 12   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

AD
12:45 pm, Sep 20, 2023

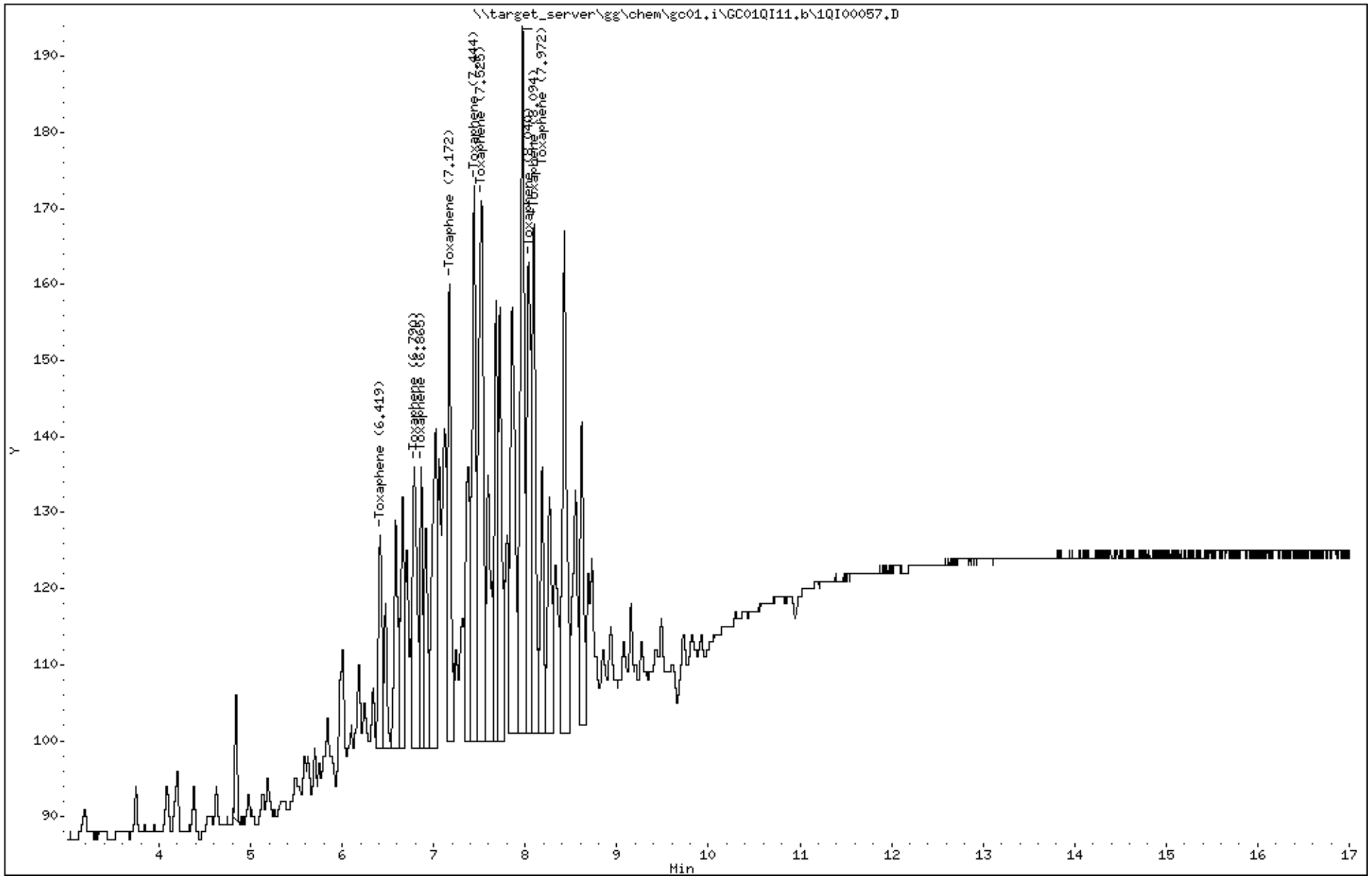
			AMOUNTS						
				CAL-AMT	ON-COL				
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE		RATIO	REVIEW CODE
18 Toxaphene						CAS #: 8001-35-2			
6.412	6.422	-0.010	28	0.10000	0.119	80.00-	120.00	100.00(M)	M5
6.783	6.787	-0.004	37	0.10000	0.102	149.94-	224.90	132.14	M5
6.862	6.866	-0.004	37	0.10000	0.102	156.57-	234.85	132.14	M5
7.168	7.172	-0.004	60	0.10000	0.104	235.64-	353.46	214.29	M5
7.440	7.442	-0.002	73	0.10000	0.105	280.95-	421.43	260.71	M5
7.520	7.526	-0.006	71	0.10000	0.102	297.90-	446.86	253.57	M5
7.970	7.972	-0.002	93	0.10000	0.106	351.22-	526.84	332.14	M5
8.033	8.037	-0.004	62	0.10000	0.100	277.63-	416.45	221.43	M5
8.092	8.093	-0.001	67	0.10000	0.105	270.52-	405.78	239.29	M5
		Average of Peak Amounts =		0.10500					

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00057.D
Date : 11-SEP-2023 23:25
Client ID:
Sample Info: WG342486-2
Purge Volume: 1.0
Column phase: ZB-Multiresidue-1

Instrument: gc01.i
Operator: AD
Column diameter: 0.53



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Data File: 1QI00057.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00057.D
Lab Smp Id: TOX 0.1
Inj Date : 11-SEP-2023 23:25
Operator : AD Inst ID: gc01.i
Smp Info : WG342486-2
Misc Info : WG342486,WG342486,WG342486
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow Quant Type: ESTD
Cal Date : 11-SEP-2023 23:25 Cal File: 1QI00057.D
Als bottle: 12 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Tox.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

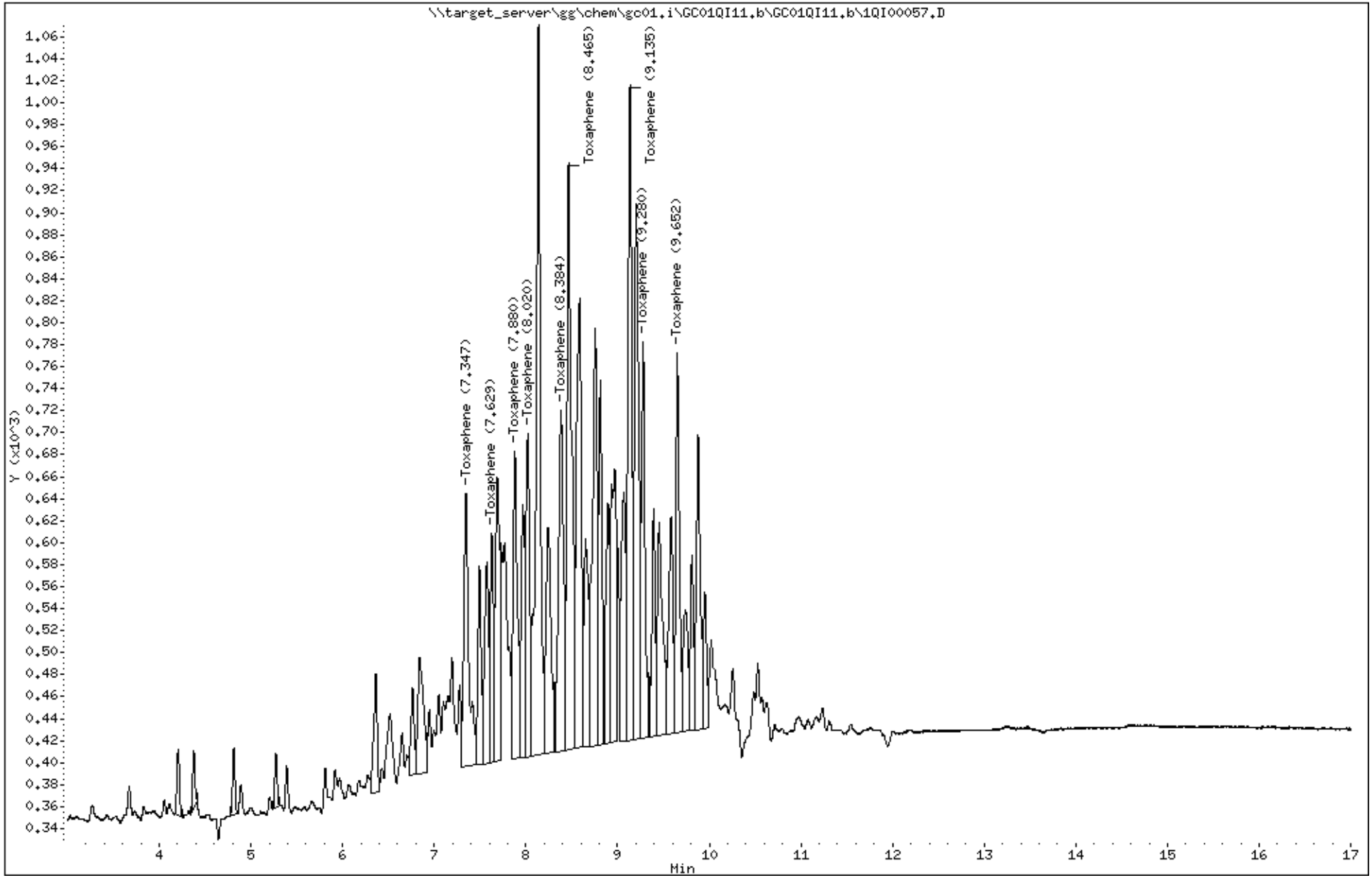
AD
12:45 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
7.345	7.347	-0.002	247	0.10000	0.109	80.00- 120.00	100.00(M)	M5
7.626	7.629	-0.003	207	0.10000	0.109	67.76- 101.65	83.81	M5
7.880	7.881	-0.001	279	0.10000	0.109	90.15- 135.22	112.96	M5
8.018	8.021	-0.003	293	0.10000	0.110	97.24- 145.85	118.62	M5
8.383	8.385	-0.002	310	0.10000	0.110	102.46- 153.68	125.51	M5
8.465	8.467	-0.002	533	0.10000	0.108	174.66- 262.00	215.79	M5
9.135	9.136	-0.001	595	0.10000	0.108	202.68- 304.02	240.89	M5
9.278	9.281	-0.003	360	0.10000	0.106	135.88- 203.82	145.75	M5
9.651	9.651	0.000	344	0.10000	0.107	127.05- 190.58	139.27	M5
		Average of Peak Amounts =		0.10844				

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00057.D
Date : 11-SEP-2023 23:25
Client ID:
Instrument: gc01.i
Sample Info: WG342486-2
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00058.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00058.D
Lab Smp Id: TOX 0.25
Inj Date : 11-SEP-2023 23:44
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-3
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 23:44   Cal File: 1QI00058.D
Als bottle: 13   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

AD
12:45 pm, Sep 20, 2023

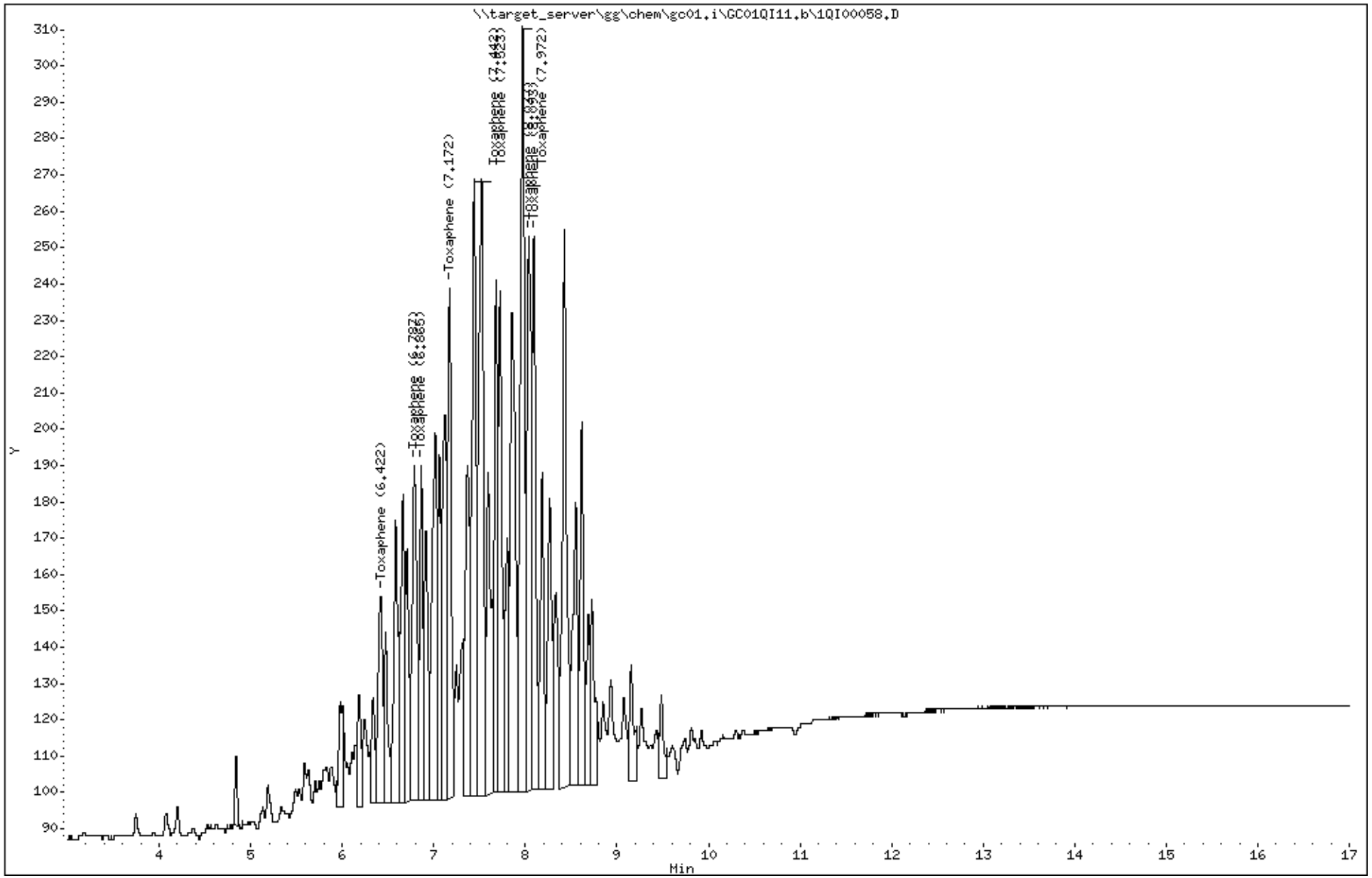
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
6.415	6.422	-0.007	57	0.25000	0.245	80.00- 120.00	100.00(M)	M5
6.786	6.787	-0.001	92	0.25000	0.253	149.94- 224.90	161.40	M5
6.863	6.866	-0.003	92	0.25000	0.253	156.57- 234.85	161.40	M5
7.171	7.172	-0.001	140	0.25000	0.245	235.64- 353.46	245.61	M5
7.440	7.442	-0.002	170	0.25000	0.247	280.95- 421.43	298.25	M5
7.523	7.526	-0.003	170	0.25000	0.245	297.90- 446.86	298.25	M5
7.971	7.972	-0.001	211	0.25000	0.243	351.22- 526.84	370.18	M5
8.035	8.037	-0.002	152	0.25000	0.247	277.63- 416.45	266.67	M5
8.091	8.093	-0.002	152	0.25000	0.242	270.52- 405.78	266.67	M5
Average of Peak Amounts =					0.24667			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00058.D
Date : 11-SEP-2023 23:44
Client ID:
Sample Info: WG342486-3
Purge Volume: 1.0
Column phase: ZB-Multiresidue-1

Instrument: gc01.i
Operator: AD
Column diameter: 0.53



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Data File: 1QI00058.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00058.D
Lab Smp Id: TOX 0.25
Inj Date : 11-SEP-2023 23:44
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-3
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 23:44   Cal File: 1QI00058.D
Als bottle: 13   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

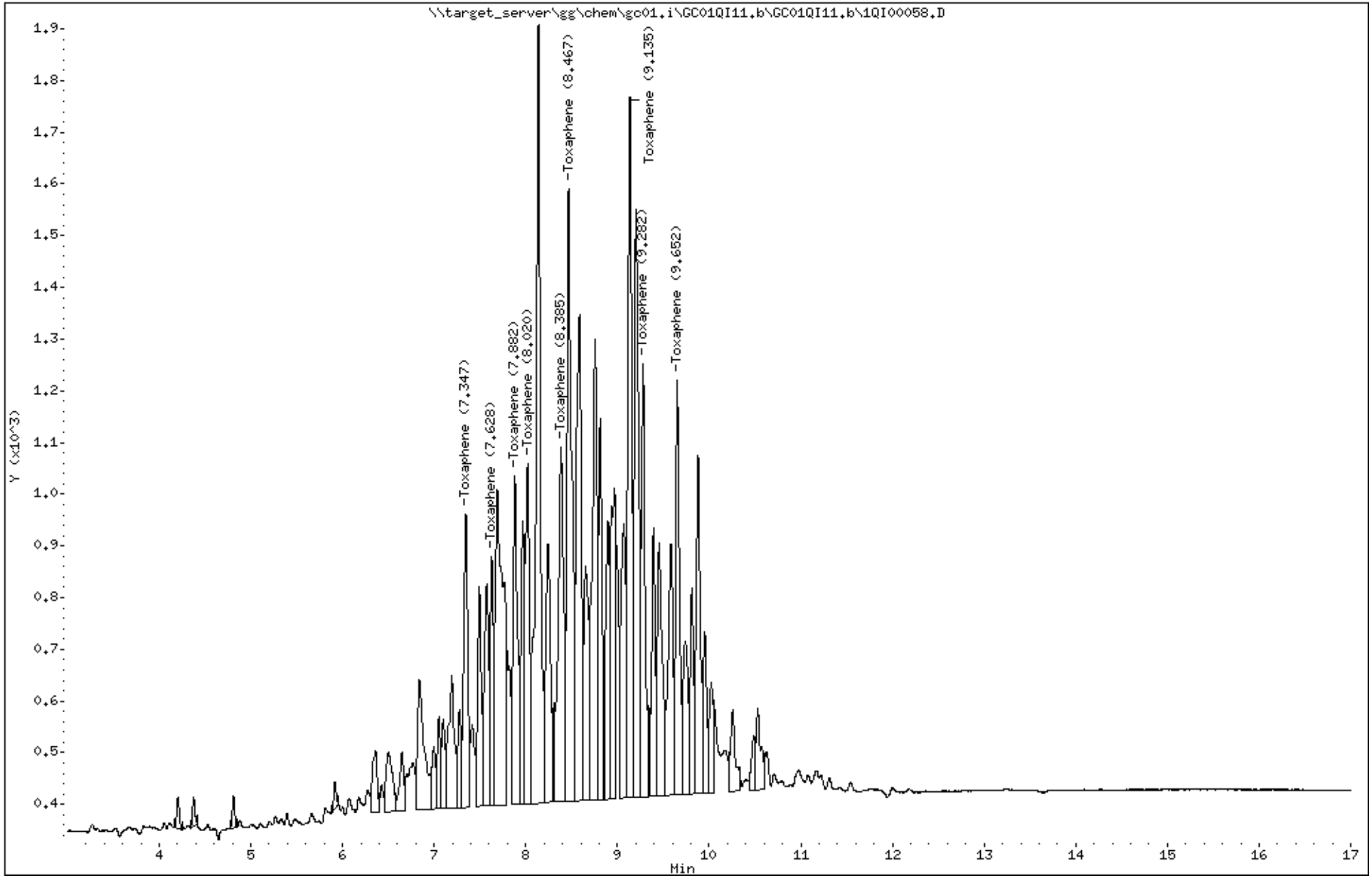
AD
12:45 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
7.346	7.347	-0.001	567	0.25000	0.250	80.00- 120.00	100.00(M)	M5
7.628	7.629	-0.001	482	0.25000	0.252	67.76- 101.65	85.01	M5
7.879	7.881	-0.002	635	0.25000	0.249	90.15- 135.22	111.99	M5
8.019	8.021	-0.002	656	0.25000	0.247	97.24- 145.85	115.70	M5
8.384	8.385	-0.001	686	0.25000	0.246	102.46- 153.68	120.99	M5
8.466	8.467	-0.001	1183	0.25000	0.244	174.66- 262.00	208.64	M5
9.134	9.136	-0.002	1355	0.25000	0.247	202.68- 304.02	238.98	M5
9.279	9.281	-0.002	838	0.25000	0.248	135.88- 203.82	147.80	M5
9.651	9.651	0.000	801	0.25000	0.249	127.05- 190.58	141.27	M5
		Average of Peak Amounts =			0.24800			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00058.D
Date : 11-SEP-2023 23:44
Client ID:
Instrument: gc01.i
Sample Info: WG342486-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00059.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00059.D
Lab Smp Id: TOX 0.5
Inj Date : 12-SEP-2023 00:04
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-4
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 00:04   Cal File: 1QI00059.D
Als bottle: 14   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

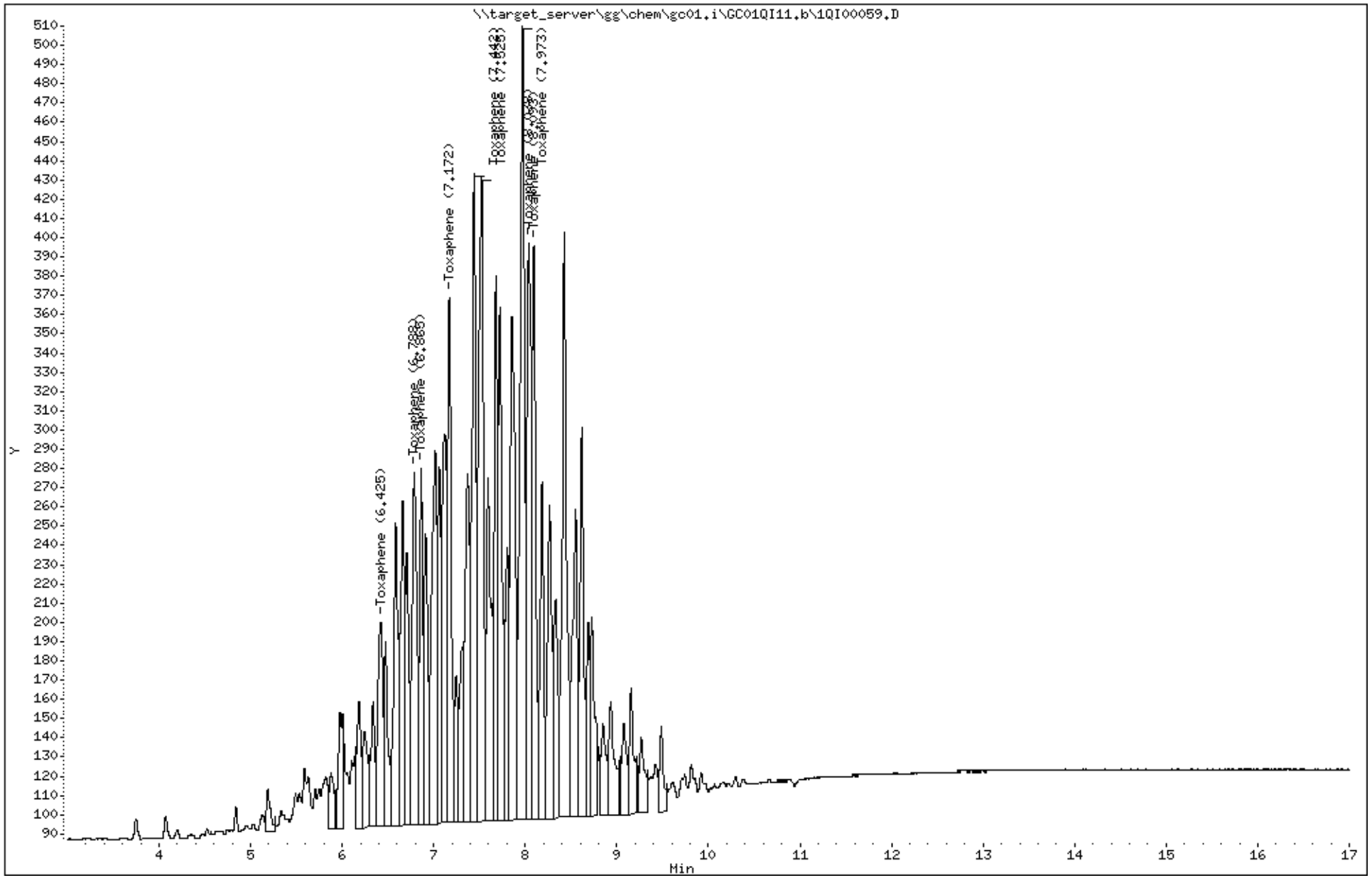
AD
12:45 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
6.419	6.422	-0.003	106	0.50000	0.466	80.00- 120.00	100.00(M)	M5
6.784	6.787	-0.003	183	0.50000	0.502	149.94- 224.90	172.64	M5
6.863	6.866	-0.003	185	0.50000	0.507	156.57- 234.85	174.53	M5
7.169	7.172	-0.003	273	0.50000	0.483	235.64- 353.46	257.55	M5
7.441	7.442	-0.001	337	0.50000	0.492	280.95- 421.43	317.92	M5
7.523	7.526	-0.003	334	0.50000	0.486	297.90- 446.86	315.09	M5
7.973	7.972	0.001	412	0.50000	0.481	351.22- 526.84	388.68	M5
8.038	8.037	0.001	299	0.50000	0.489	277.63- 416.45	282.08	M5
8.093	8.093	0.000	298	0.50000	0.481	270.52- 405.78	281.13	M5
		Average of Peak Amounts =			0.48744			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00059.D
Date : 12-SEP-2023 00:04
Client ID:
Instrument: gc01.i
Sample Info: WG342486-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QI00059.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00059.D
Lab Smp Id: TOX 0.5
Inj Date : 12-SEP-2023 00:04
Operator : AD Inst ID: gc01.i
Smp Info : WG342486-4
Misc Info : WG342486,WG342486,WG342486
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 00:04 Cal File: 1QI00059.D
Als bottle: 14 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Tox.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

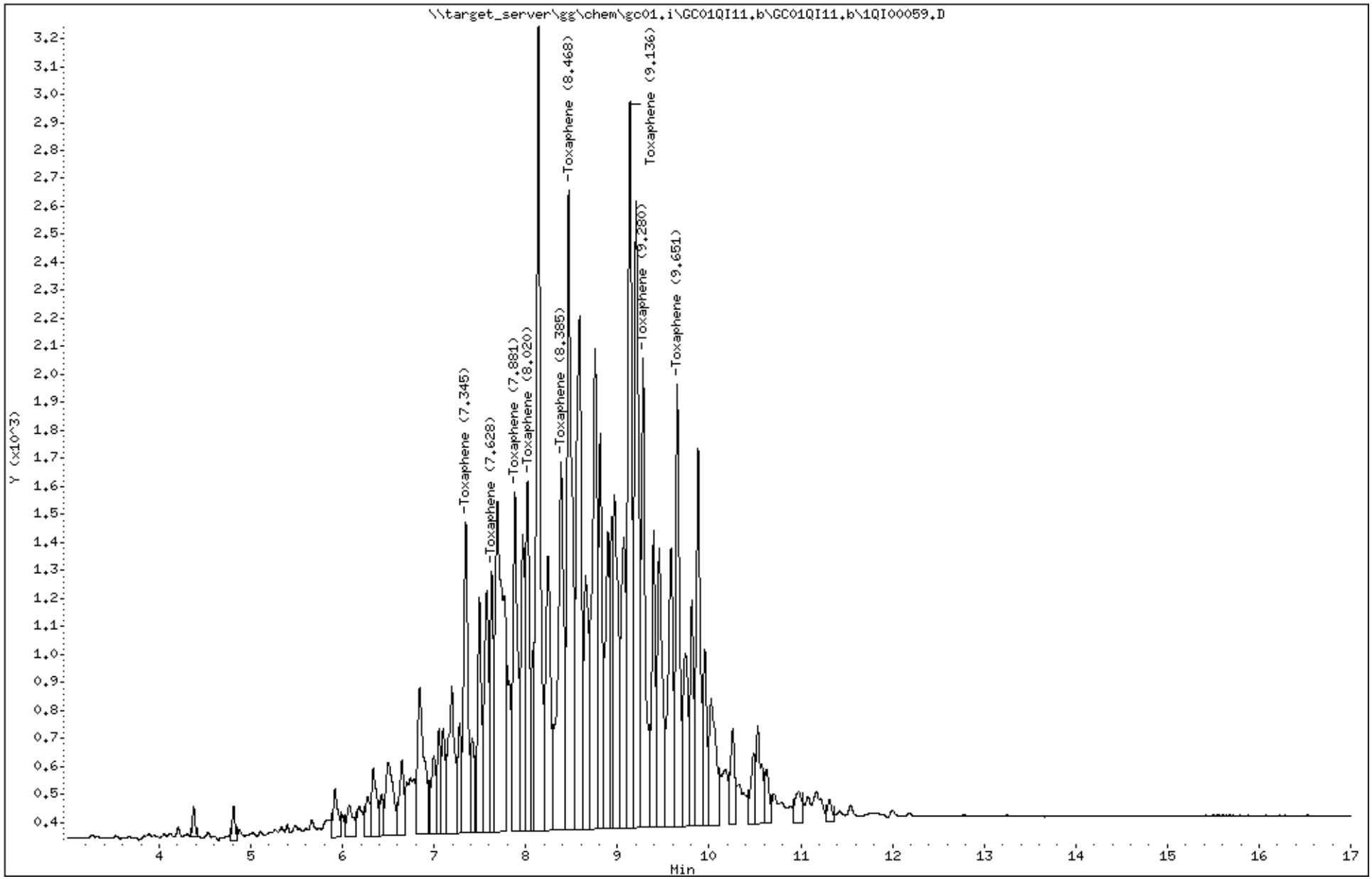
AD
12:45 pm, Sep 20, 2023

RT	EXP RT	DLT RT	AMOUNTS RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
7.344	7.347	-0.003	1109	0.50000	0.492	80.00- 120.00	100.00(M)	M5
7.628	7.629	-0.001	930	0.50000	0.490	67.76- 101.65	83.86	M5
7.881	7.881	0.000	1209	0.50000	0.480	90.15- 135.22	109.02	M5
8.019	8.021	-0.002	1250	0.50000	0.478	97.24- 145.85	112.71	M5
8.384	8.385	-0.001	1314	0.50000	0.478	102.46- 153.68	118.49	M5
8.468	8.467	0.001	2285	0.50000	0.478	174.66- 262.00	206.04	M5
9.136	9.136	0.000	2592	0.50000	0.479	202.68- 304.02	233.72	M5
9.279	9.281	-0.002	1675	0.50000	0.497	135.88- 203.82	151.04	M5
9.651	9.651	0.000	1578	0.50000	0.493	127.05- 190.58	142.29	M5
		Average of Peak Amounts =			0.48500			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00059.D
Date : 12-SEP-2023 00:04
Client ID:
Instrument: gc01.i
Sample Info: WG342486-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00060.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00060.D
Lab Smp Id: TOX 2.5
Inj Date : 12-SEP-2023 00:23
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-5
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 00:23   Cal File: 1QI00060.D
Als bottle: 15   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

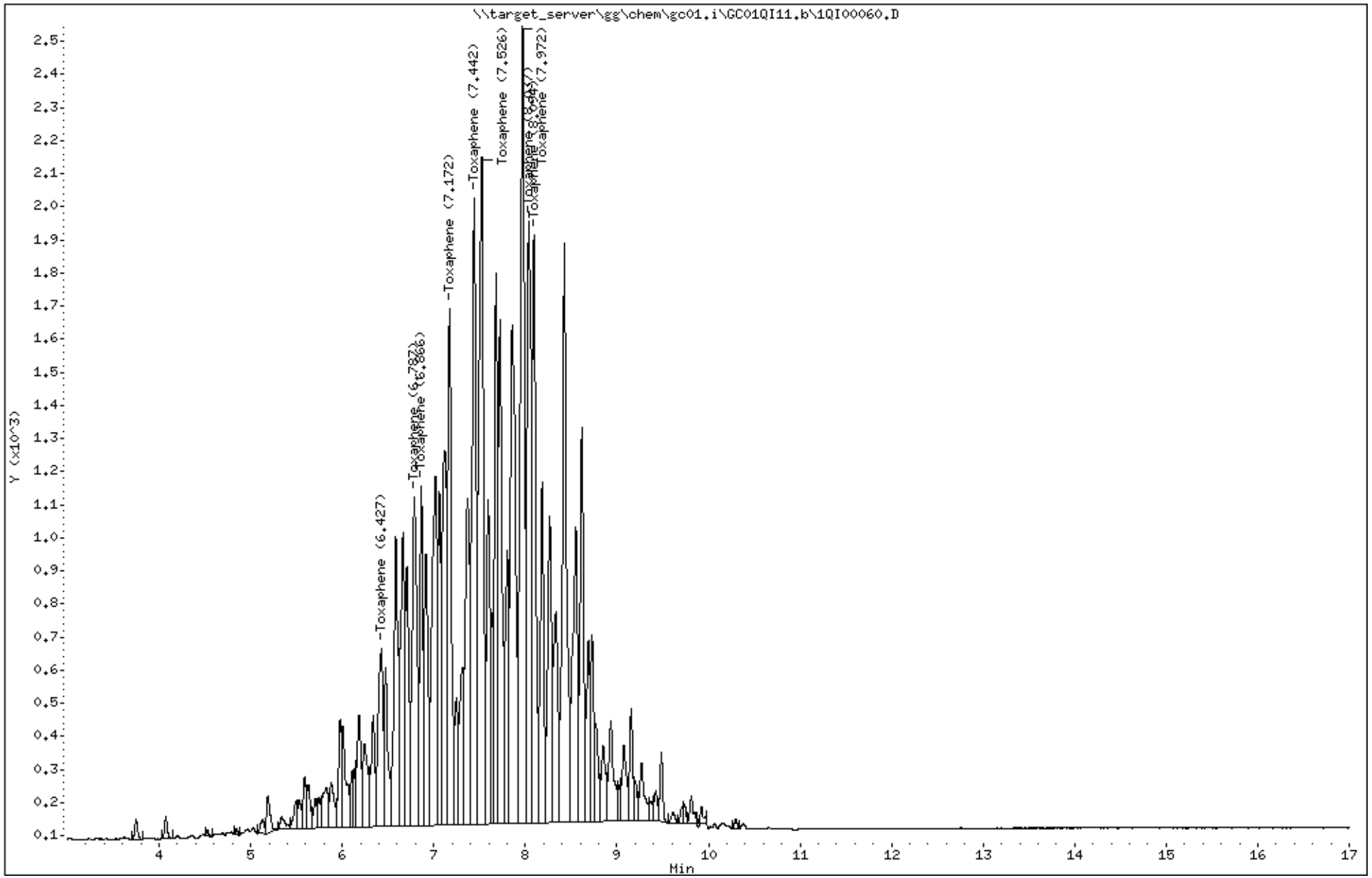
AD
12:47 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
6.427	6.422	0.005	536	2.50000	2.38	80.00- 120.00	100.00(M)	M5
6.787	6.787	0.000	992	2.50000	2.67	149.94- 224.90	185.07	M5
6.865	6.866	-0.001	1025	2.50000	2.74	156.57- 234.85	191.23	M5
7.172	7.172	0.000	1561	2.50000	2.70	235.64- 353.46	291.23	M5
7.440	7.442	-0.002	1892	2.50000	2.70	280.95- 421.43	352.99	M5
7.525	7.526	-0.001	2016	2.50000	2.84	297.90- 446.86	376.12	M5
7.972	7.972	0.000	2408	2.50000	2.74	351.22- 526.84	449.25	M5
8.037	8.037	0.000	1818	2.50000	2.86	277.63- 416.45	339.18	M5
8.094	8.093	0.001	1775	2.50000	2.78	270.52- 405.78	331.16	M5
Average of Peak Amounts =					2.71222			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00060.D
Date : 12-SEP-2023 00:23
Client ID:
Instrument: gc01.i
Sample Info: WG342486-5
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QI00060.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

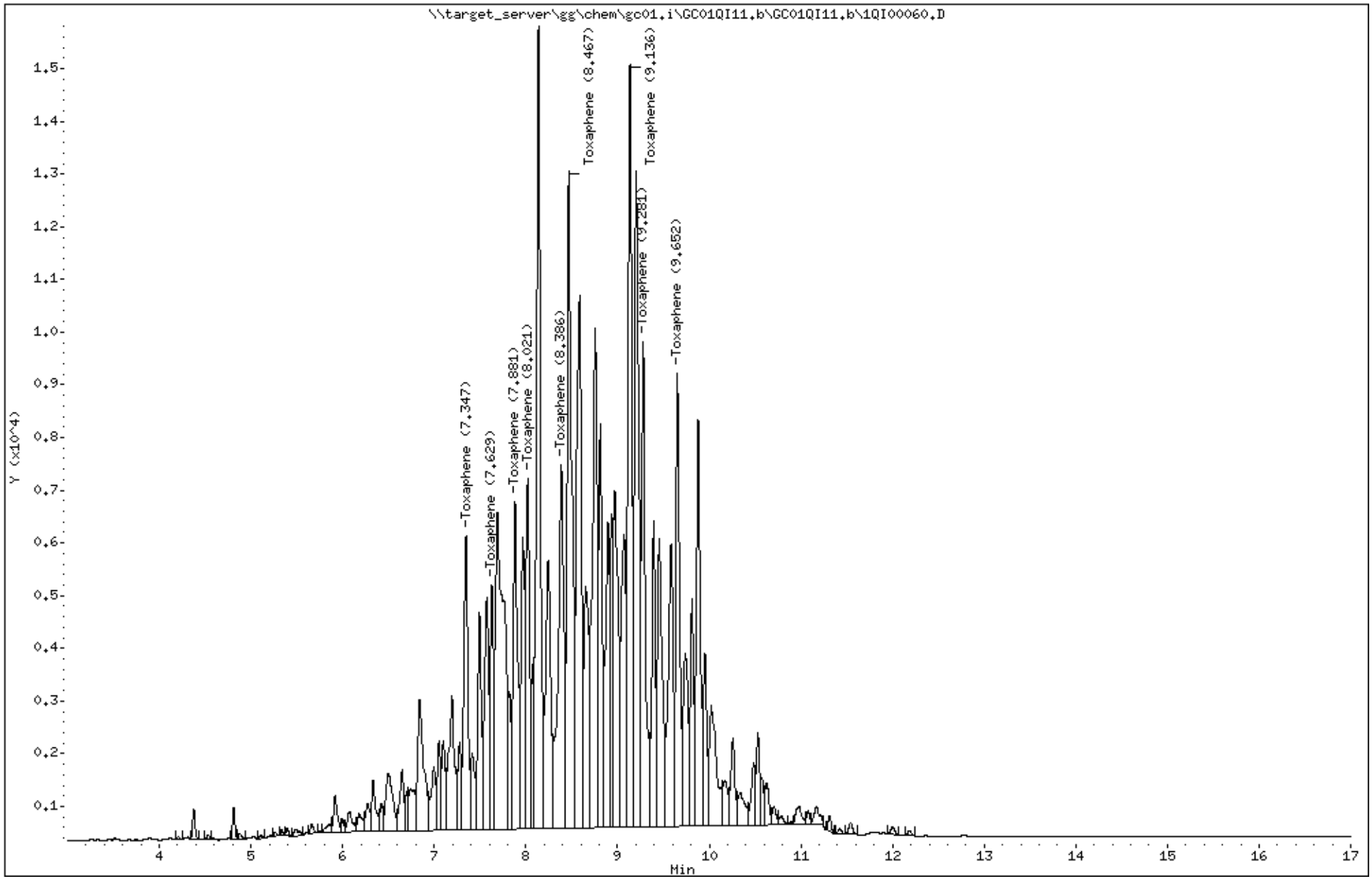
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00060.D
Lab Smp Id: TOX 2.5
Inj Date : 12-SEP-2023 00:23
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-5
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 00:23   Cal File: 1QI00060.D
Als bottle: 15   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene						CAS #: 8001-35-2		
7.347	7.347	0.000	5570	2.50000	2.48	80.00- 120.00	100.00	
7.628	7.629	-0.001	4649	2.50000	2.46	67.76- 101.65	83.46	
7.880	7.881	-0.001	6219	2.50000	2.48	90.15- 135.22	111.65	
8.020	8.021	-0.001	6642	2.50000	2.53	97.24- 145.85	119.25	
8.385	8.385	0.000	6907	2.50000	2.51	102.46- 153.68	124.00	
8.467	8.467	0.000	12478	2.50000	2.59	174.66- 262.00	224.02	
9.135	9.136	-0.001	14467	2.50000	2.64	202.68- 304.02	259.73	
9.280	9.281	-0.001	9200	2.50000	2.68	135.88- 203.82	165.17	
9.652	9.651	0.001	8599	2.50000	2.65	127.05- 190.58	154.38	
Average of Peak Amounts =					2.55778			

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00060.D
Date : 12-SEP-2023 00:23
Client ID:
Instrument: gc01.i
Sample Info: WG342486-5
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: 1QI00061.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00061.D
Lab Smp Id: TOX 10
Inj Date : 12-SEP-2023 00:43
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-6
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 00:43   Cal File: 1QI00061.D
Als bottle: 16   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

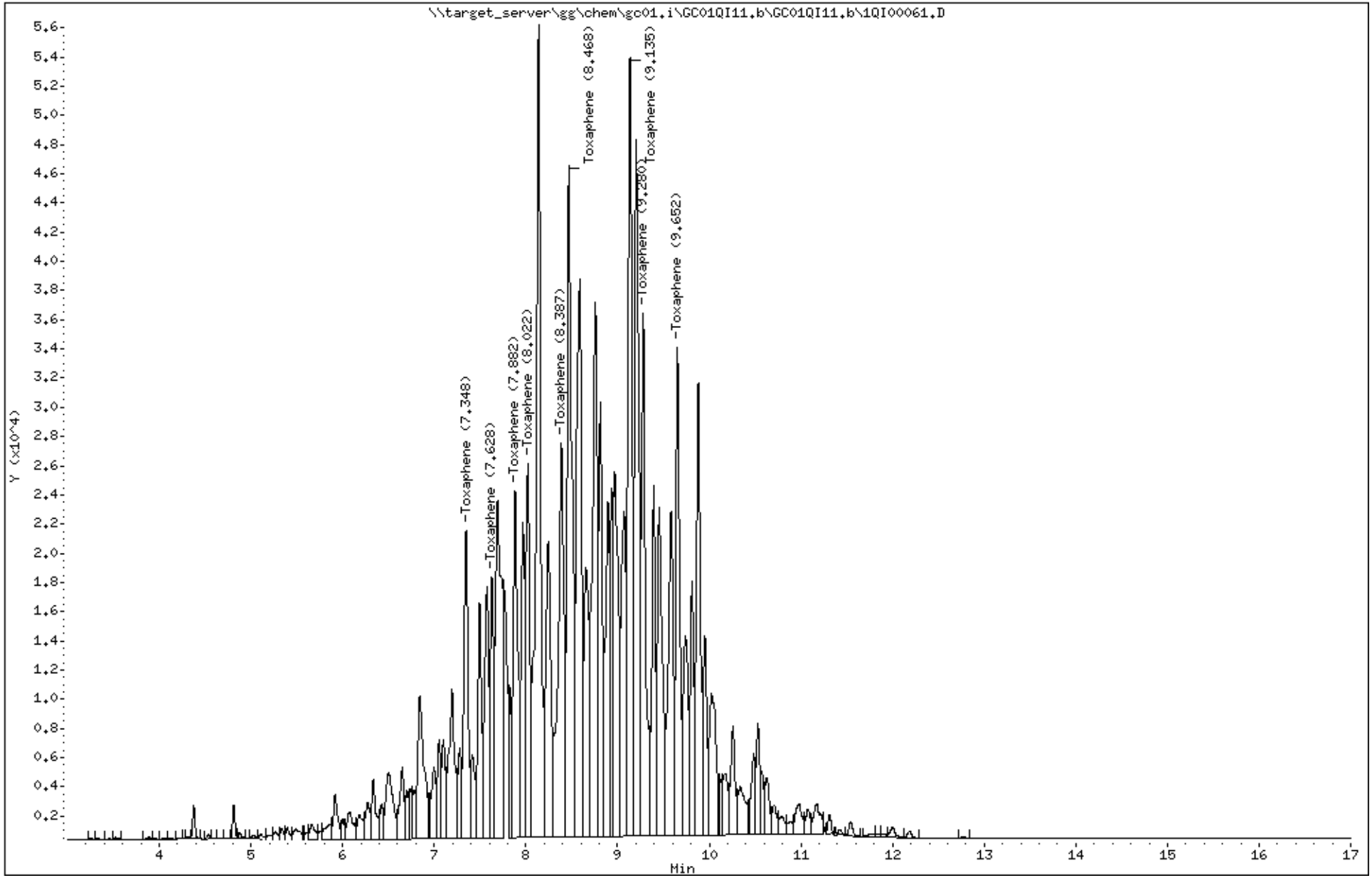
AD
12:47 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
7.348	7.347	0.001	21059	10.0000	9.46	80.00- 120.00	100.00(M)	M5
7.628	7.629	-0.001	17838	10.0000	9.52	67.76- 101.65	84.70	M5
7.881	7.881	0.000	23730	10.0000	9.54	90.15- 135.22	112.68	M5
8.021	8.021	0.000	25596	10.0000	9.80	97.24- 145.85	121.54	M5
8.386	8.385	0.001	26970	10.0000	9.83	102.46- 153.68	128.07	M5
8.468	8.467	0.001	45978	10.0000	9.61	174.66- 262.00	218.33	M5
9.135	9.136	-0.001	53353	10.0000	9.77	202.68- 304.02	253.35	M5
9.280	9.281	-0.001	35768	10.0000	10.3	135.88- 203.82	169.85	M5
9.651	9.651	0.000	33445	10.0000	10.2	127.05- 190.58	158.82	M5
		Average of Peak Amounts =		9.78111				

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00061.D
Date : 12-SEP-2023 00:43
Client ID:
Instrument: gc01.i
Sample Info: WG342486-6
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00061.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00061.D
Lab Smp Id: TOX 10
Inj Date : 12-SEP-2023 00:43
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-6
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 00:43   Cal File: 1QI00061.D
Als bottle: 16   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

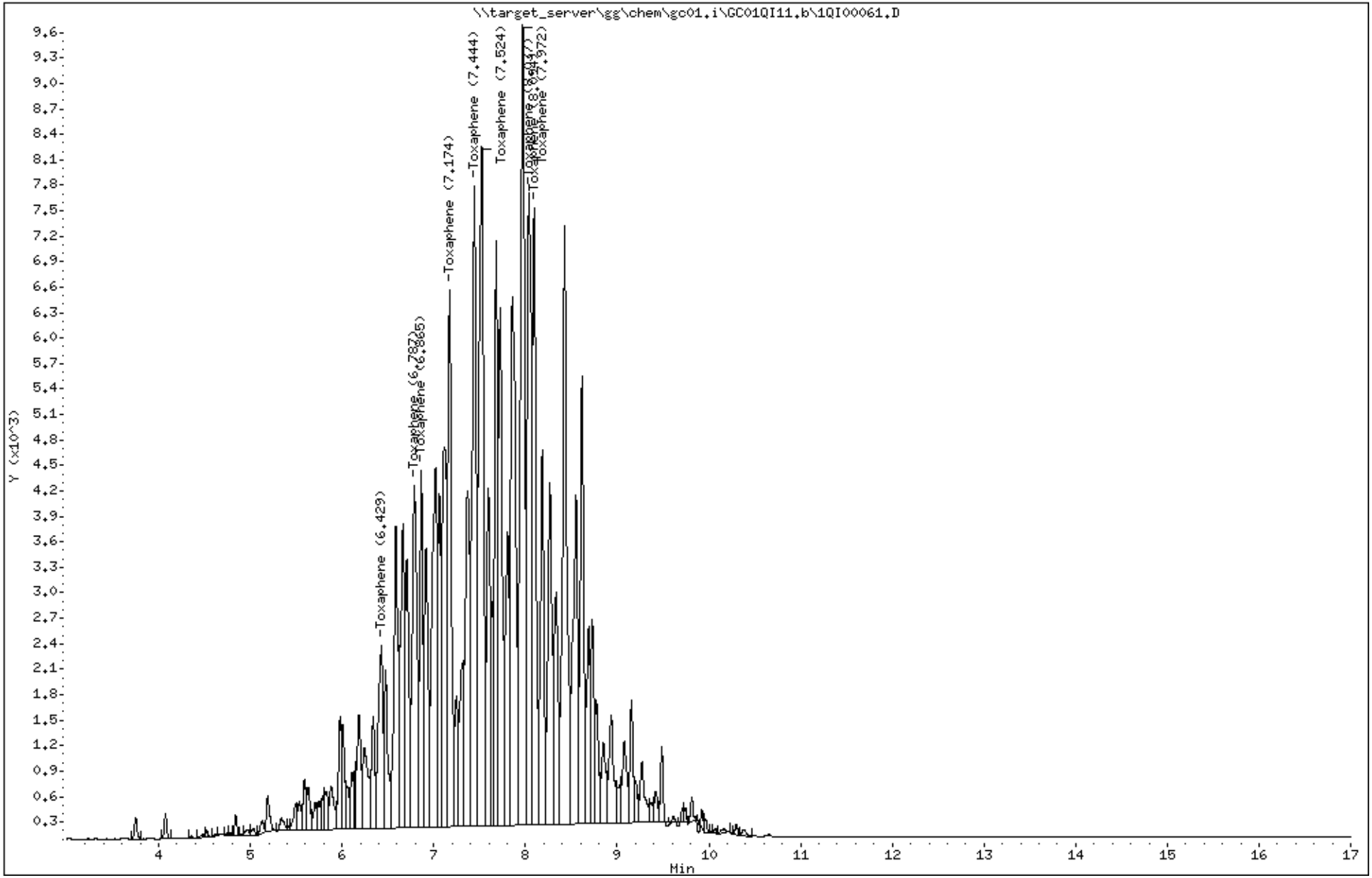
AD
12:47 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
6.428	6.422	0.006	2147	10.0000	9.62	80.00- 120.00	100.00(AM)	M5
6.786	6.787	-0.001	4024	10.0000	10.7	149.94- 224.90	187.42	M5
6.865	6.866	-0.001	4202	10.0000	11.0	156.57- 234.85	195.71	M5
7.173	7.172	0.001	6324	10.0000	10.8	235.64- 353.46	294.55	M5
7.443	7.442	0.001	7540	10.0000	10.6	280.95- 421.43	351.19	M5
7.523	7.526	-0.003	7995	10.0000	11.0	297.90- 446.86	372.38	M5
7.971	7.972	-0.001	9426	10.0000	10.6	351.22- 526.84	439.03	M5
8.036	8.037	-0.001	7451	10.0000	11.4	277.63- 416.45	347.04	M5
8.093	8.093	0.000	7260	10.0000	11.1	270.52- 405.78	338.15	M5
		Average of Peak Amounts =			10.7578			

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00061.D
Date : 12-SEP-2023 00:43
Client ID:
Instrument: gc01.i
Sample Info: WG342486-6
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00062.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00062.D
Lab Smp Id: TOX IND 1.0
Inj Date : 12-SEP-2023 01:02
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-7
Misc Info : WG342486,WG342486,WG342486,SQ4875-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 00:43   Cal File: 1QI00061.D
Als bottle: 17   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

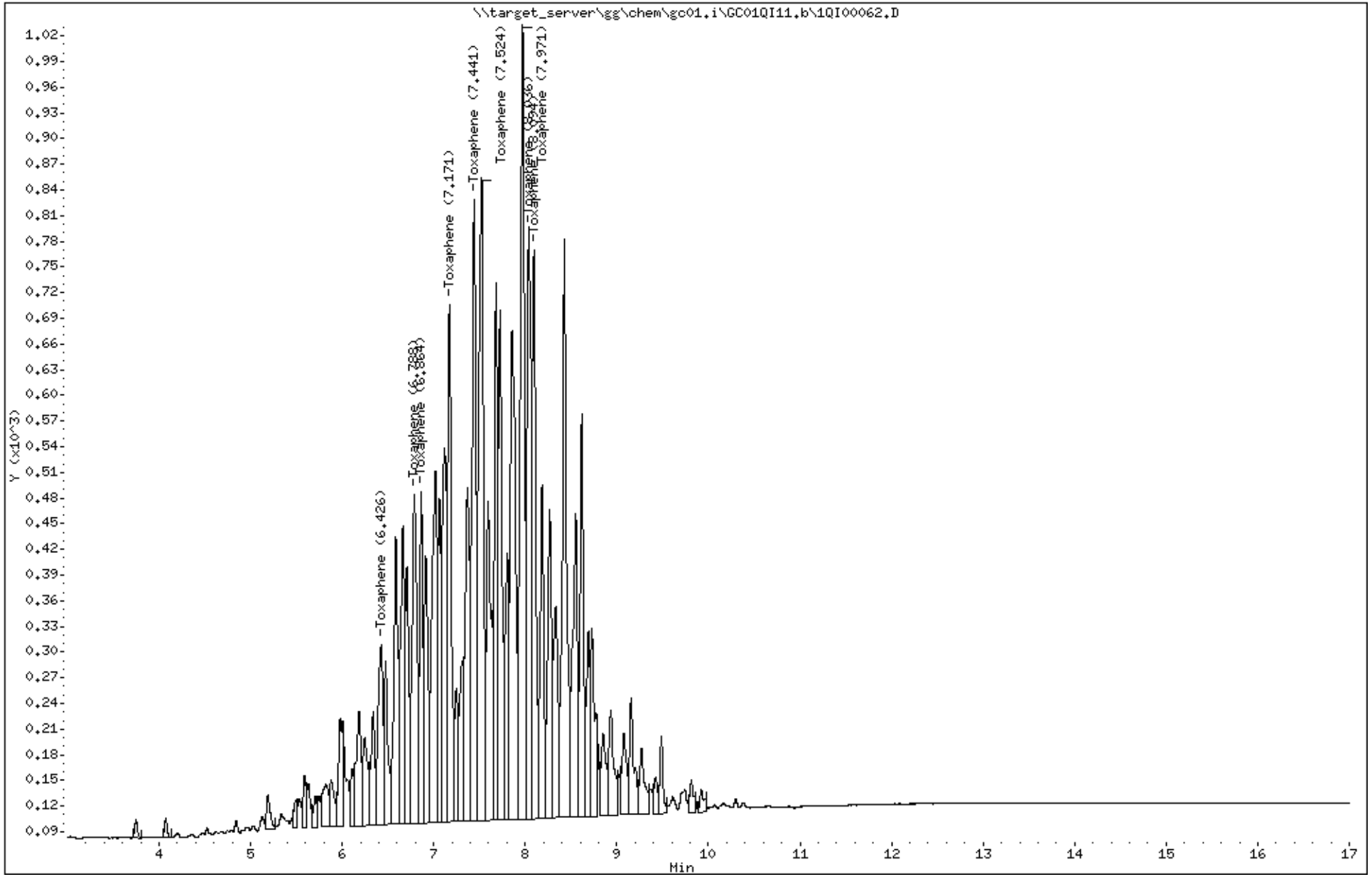
AD
12:47 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
6.424	6.422	0.002	211	0.94541	0.945	80.00- 120.00	100.00(M)	M5
6.786	6.787	-0.001	384	1.02073	1.02	149.94- 224.90	181.99	M5
6.864	6.866	-0.002	388	1.01651	1.02	156.57- 234.85	183.89	M5
7.171	7.172	-0.001	604	1.03019	1.03	235.64- 353.46	286.26	M5
7.441	7.442	-0.001	725	1.02310	1.02	280.95- 421.43	343.60	M5
7.522	7.526	-0.004	751	1.03541	1.04	297.90- 446.86	355.92	M5
7.971	7.972	-0.001	928	1.04410	1.04	351.22- 526.84	439.81	M5
8.036	8.037	-0.001	687	1.05226	1.05	277.63- 416.45	325.59	M5
8.094	8.093	0.001	663	1.01635	1.02	270.52- 405.78	314.22	M5
		Average of Peak Concentrations =			1.02			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00062.D
Date : 12-SEP-2023 01:02
Client ID:
Instrument: gc01.i
Sample Info: WG342486-7
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QI00062.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00062.D
Lab Smp Id: TOX IND 1.0
Inj Date : 12-SEP-2023 01:02
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-7
Misc Info : WG342486,WG342486,WG342486,SQ4875-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 00:43   Cal File: 1QI00061.D
Als bottle: 17   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

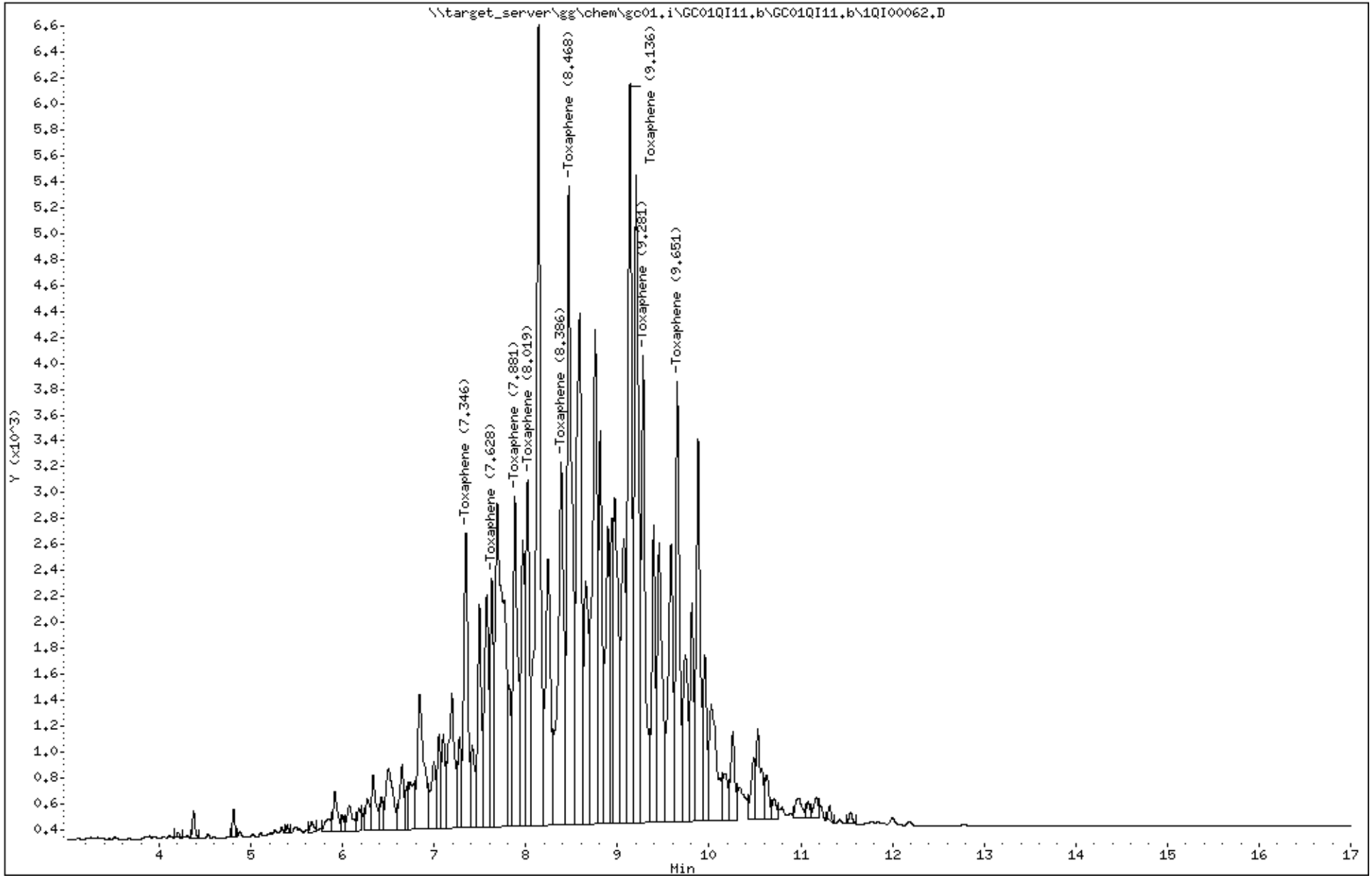
AD
12:47 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
7.345	7.347	-0.002	2275	1.02194	1.02	80.00- 120.00	100.00(M)	M5
7.627	7.629	-0.002	1922	1.02612	1.03	67.76- 101.65	84.48	M5
7.880	7.881	-0.001	2541	1.02147	1.02	90.15- 135.22	111.69	M5
8.019	8.021	-0.002	2673	1.02320	1.02	97.24- 145.85	117.49	M5
8.385	8.385	0.000	2797	1.01988	1.02	102.46- 153.68	122.95	M5
8.467	8.467	0.000	4927	1.02968	1.03	174.66- 262.00	216.57	M5
9.135	9.136	-0.001	5705	1.04493	1.04	202.68- 304.02	250.77	M5
9.280	9.281	-0.001	3603	1.04209	1.04	135.88- 203.82	158.37	M5
9.650	9.651	-0.001	3396	1.04049	1.04	127.05- 190.58	149.27	M5
		Average of Peak Concentrations =			1.03			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00062.D
Date : 12-SEP-2023 01:02
Client ID:
Instrument: gc01.i
Sample Info: WG342486-7
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00074.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00074.D
Lab Smp Id: TC 0.5
Inj Date : 12-SEP-2023 12:52
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-1
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 12:52   Cal File: 1QI00074.D
Als bottle: 2   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

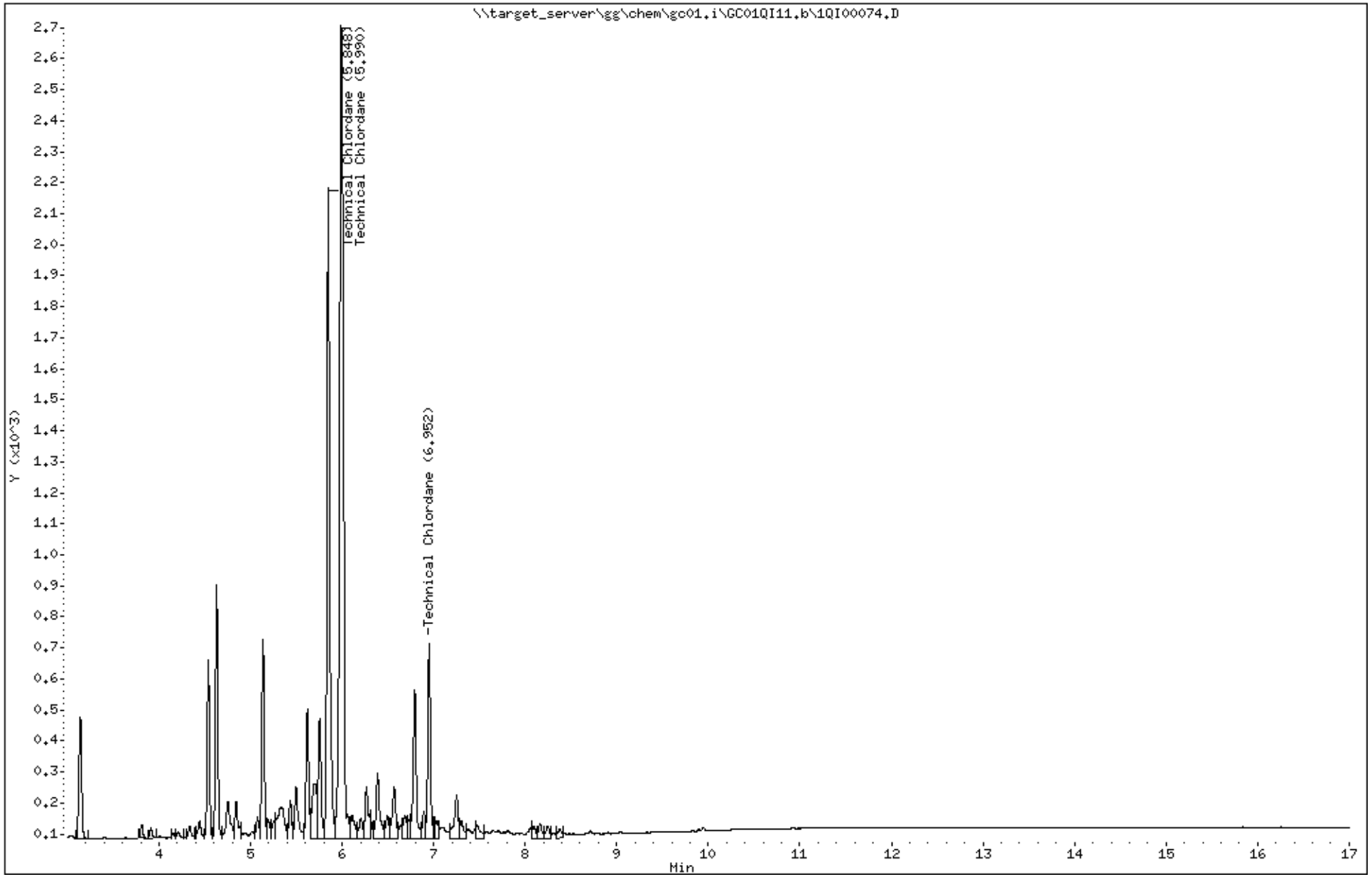
AD
12:47 pm, Sep 20, 2023

			AMOUNTS						
				CAL-AMT	ON-COL				
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO		REVIEW CODE
14 Technical Chlordane						CAS #: 12789-03-6			
5.848	5.848	0.000	2101	0.50000	0.495	80.00- 120.00	100.00(M)		M5
5.989	5.990	-0.001	2624	0.50000	0.492	100.22- 150.34	124.89		M5
6.951	6.952	-0.001	629	0.50000	0.494	24.11- 36.17	29.94		M5
Average of Peak Amounts =					0.49367				

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00074.D
Date : 12-SEP-2023 12:52
Client ID:
Instrument: gc01.i
Sample Info: WG342487-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QI00074.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

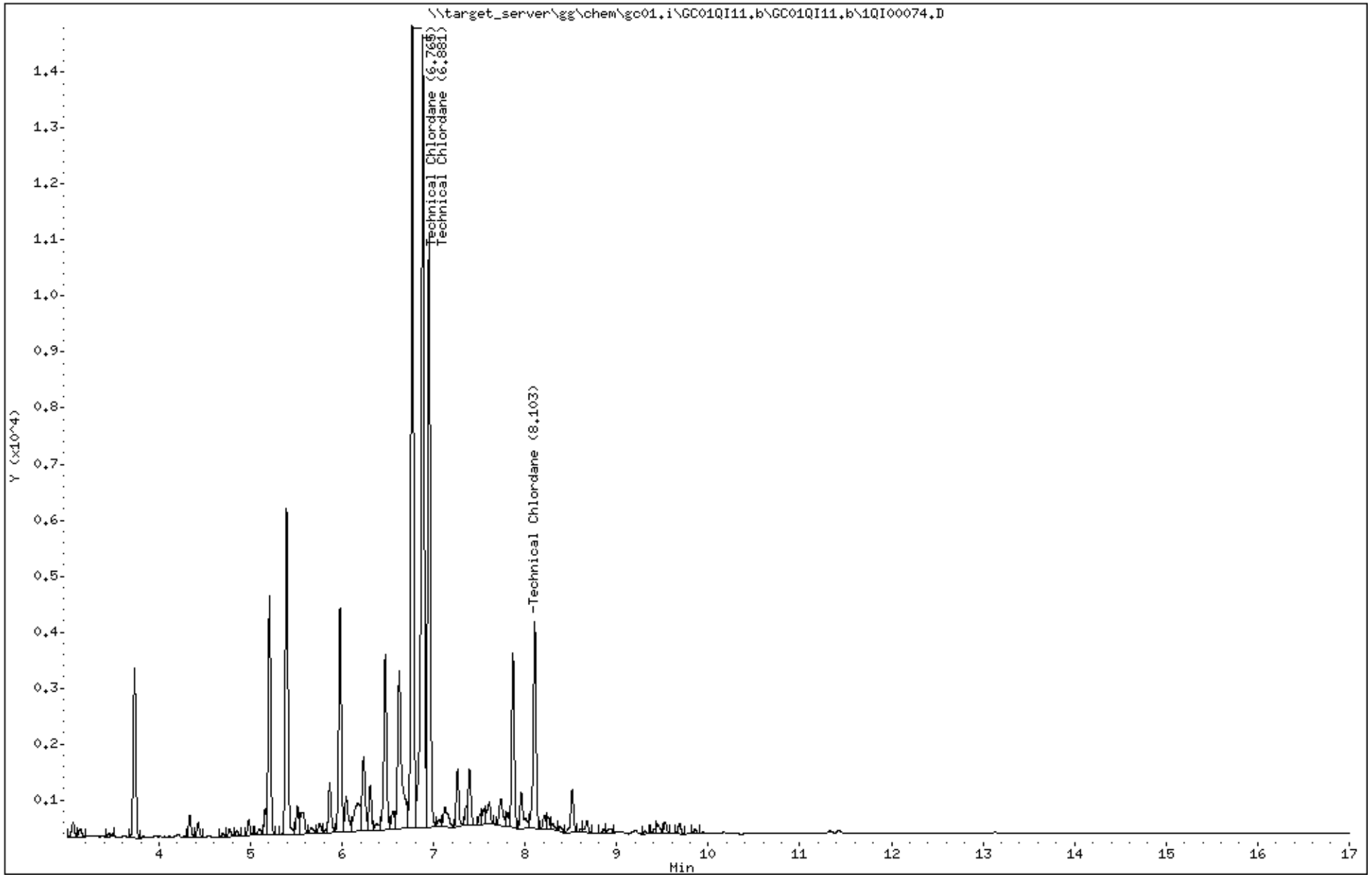
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00074.D
Lab Smp Id: TC 0.5
Inj Date : 12-SEP-2023 12:52
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-1
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 12:52   Cal File: 1QI00074.D
Als bottle: 2   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS					
RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
6.764	6.765	-0.001	14342	0.50000	0.500	80.00- 120.00	100.00	
6.881	6.881	0.000	14151	0.50000	0.500	79.67- 119.51	98.67	
8.103	8.103	0.000	3692	0.50000	0.500	23.29- 34.93	25.74	
Average of Peak Amounts =					0.50000			

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00074.D
Date : 12-SEP-2023 12:52
Client ID:
Instrument: gc01.i
Sample Info: WG342487-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00075.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00075.D
Lab Smp Id: TC 0.05
Inj Date : 12-SEP-2023 13:11
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-2
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 13:11   Cal File: 1QI00075.D
Als bottle: 3   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

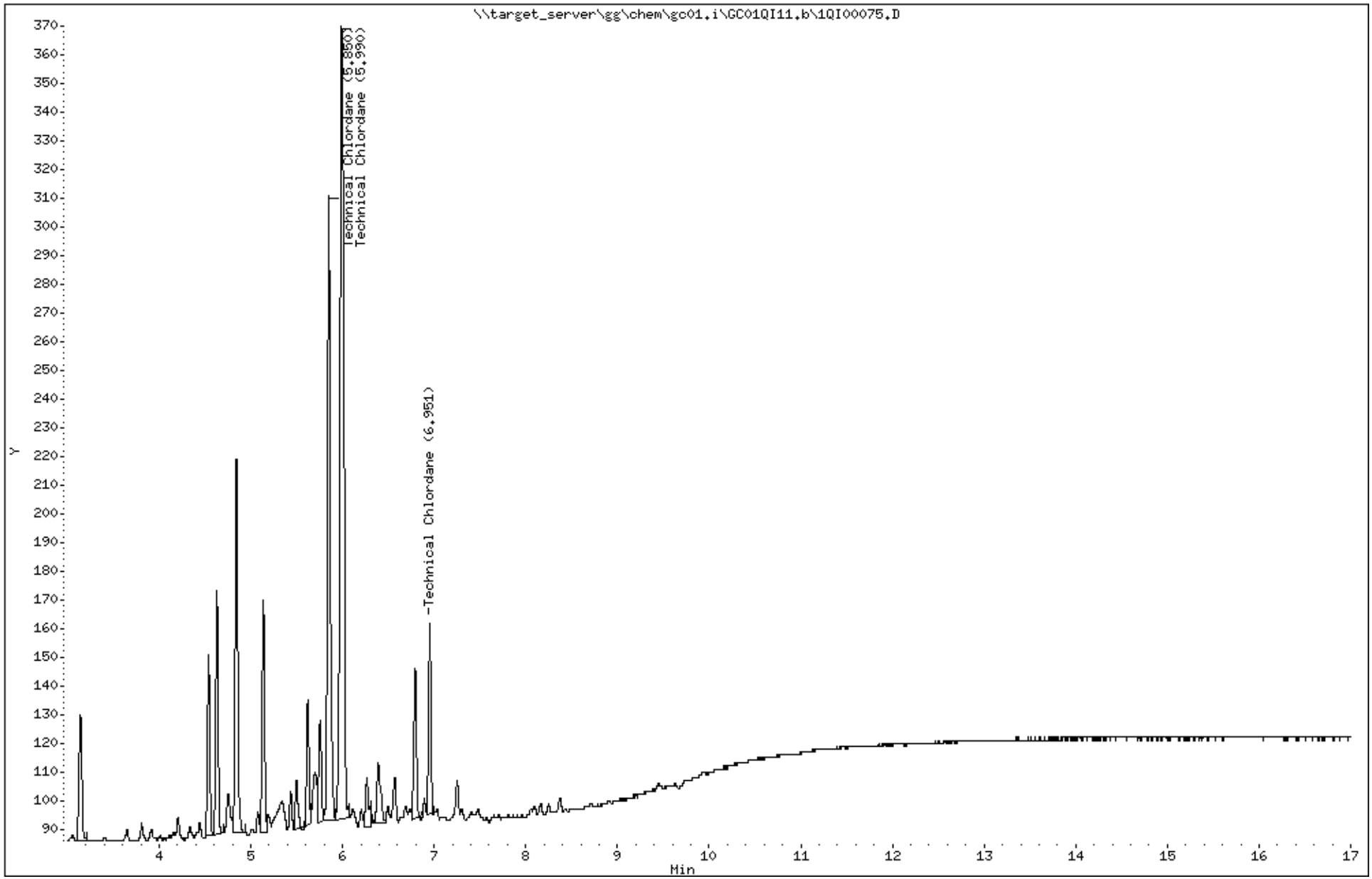
AD
12:48 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
5.849	5.848	0.001	218	0.05000	0.0513	80.00- 120.00	100.00(M)	M5
5.989	5.990	-0.001	276	0.05000	0.0518	100.22- 150.34	126.61	M5
6.951	6.952	-0.001	66	0.05000	0.0519	24.11- 36.17	30.28	M5
		Average of Peak Amounts =		0.05167				

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00075.D
Date : 12-SEP-2023 13:11
Client ID:
Instrument: gc01.i
Sample Info: WG342487-2
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QI00075.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

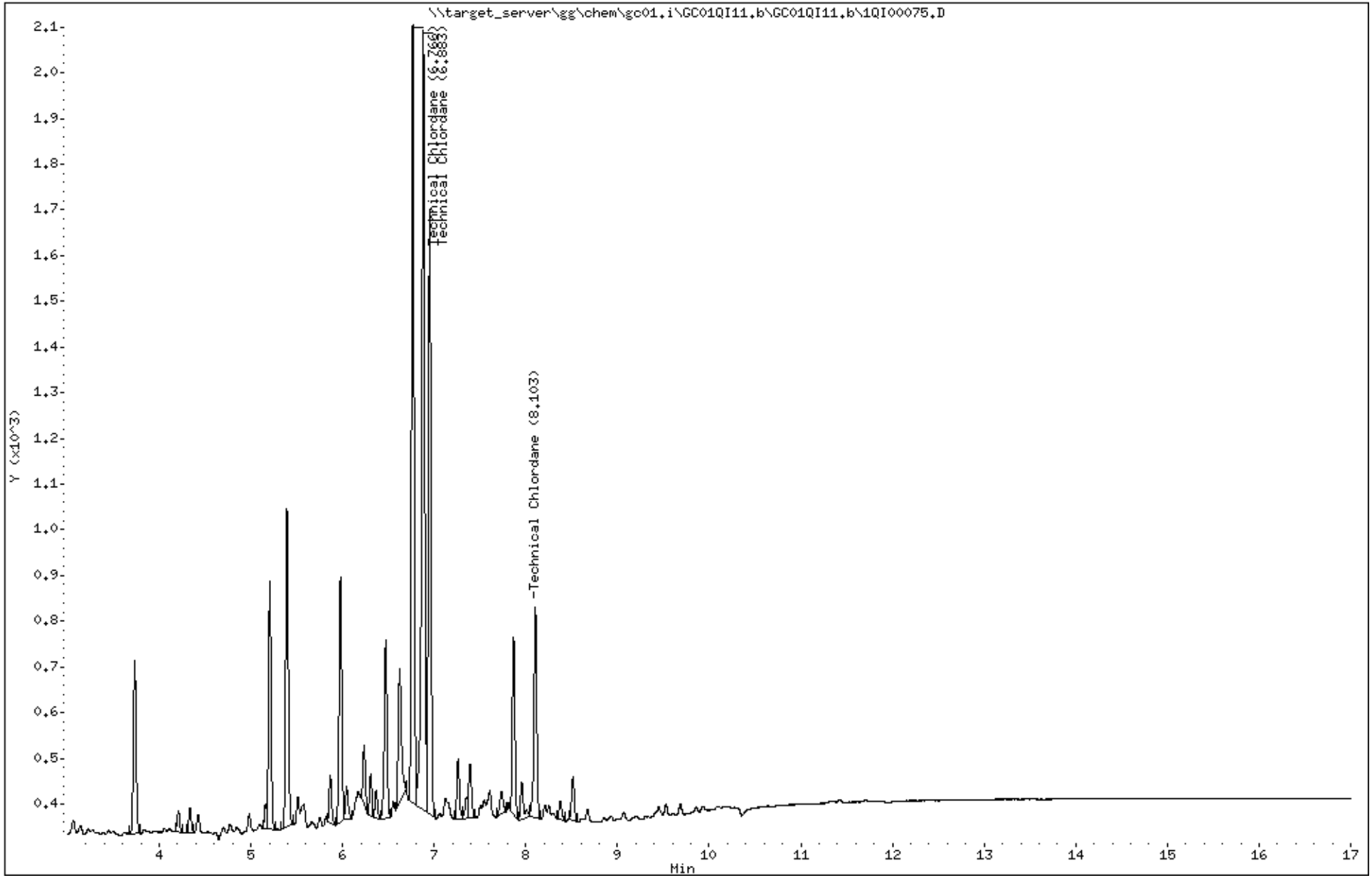
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00075.D
Lab Smp Id: TC 0.05
Inj Date : 12-SEP-2023 13:11
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-2
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 13:11   Cal File: 1QI00075.D
Als bottle: 3   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

			AMOUNTS					
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
6.766	6.765	0.001	1704	0.05000	0.0565	80.00- 120.00	100.00	
6.882	6.881	0.001	1709	0.05000	0.0571	79.67- 119.51	100.29	
8.102	8.103	-0.001	462	0.05000	0.0577	23.29- 34.93	27.11	
		Average of Peak Amounts =			0.05710			

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00075.D
Date : 12-SEP-2023 13:11
Client ID:
Instrument: gc01.i
Sample Info: WG342487-2
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00076.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00076.D
Lab Smp Id: TC 0.1
Inj Date : 12-SEP-2023 13:31
Operator : AD Inst ID: gc01.i
Smp Info : WG342487-3
Misc Info : WG342487,WG342487,WG342487
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 13:31 Cal File: 1QI00076.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TC.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

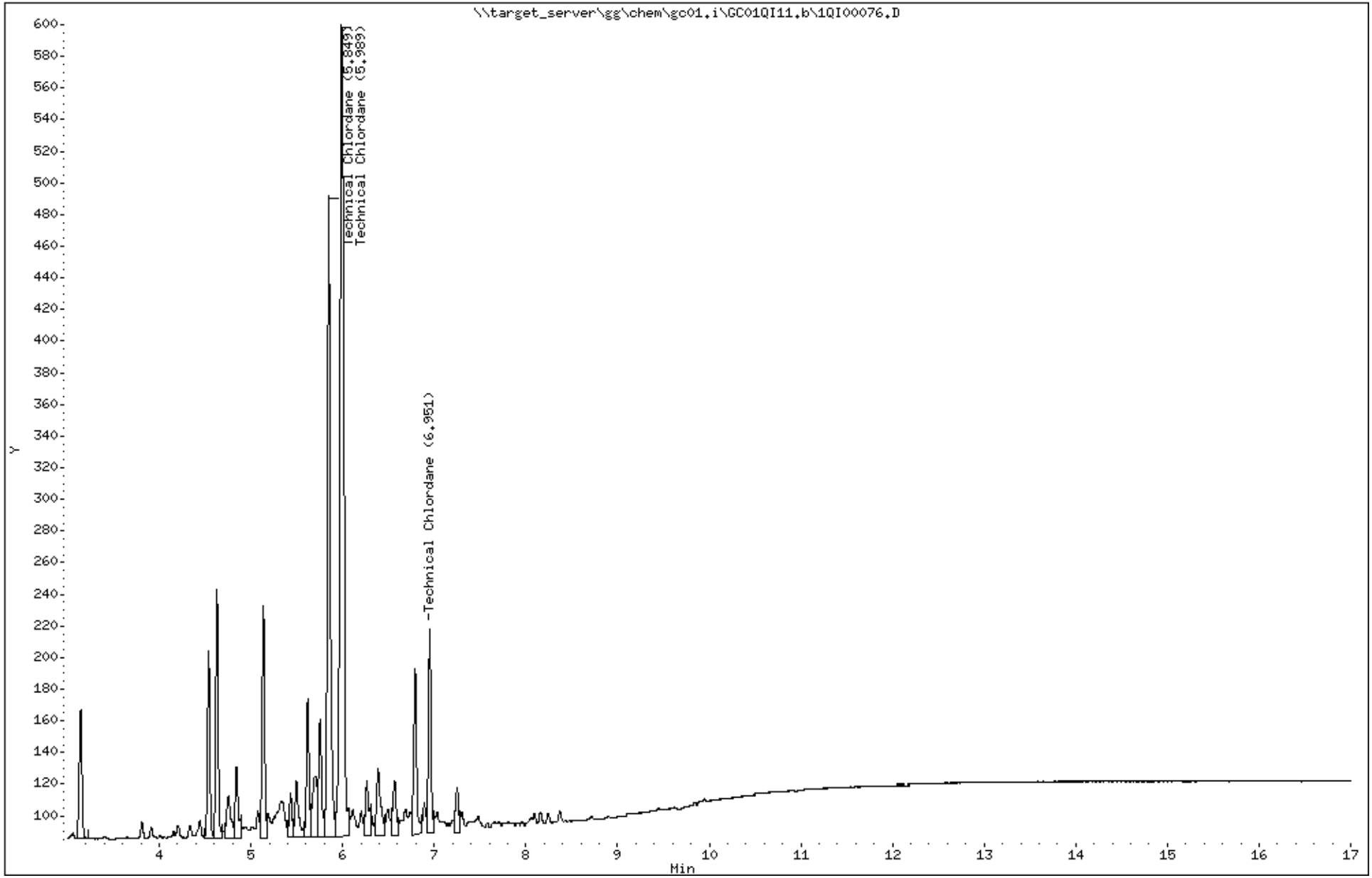
AD
12:48 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
5.847	5.848	-0.001	405	0.10000	0.0950	80.00- 120.00	100.00(M)	M5
5.989	5.990	-0.001	512	0.10000	0.0958	100.22- 150.34	126.42	M5
6.949	6.952	-0.003	129	0.10000	0.100	24.11- 36.17	31.85	M5
		Average of Peak Amounts =			0.09693			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00076.D
Date : 12-SEP-2023 13:31
Client ID:
Instrument: gc01.i
Sample Info: WG342487-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QI00076.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

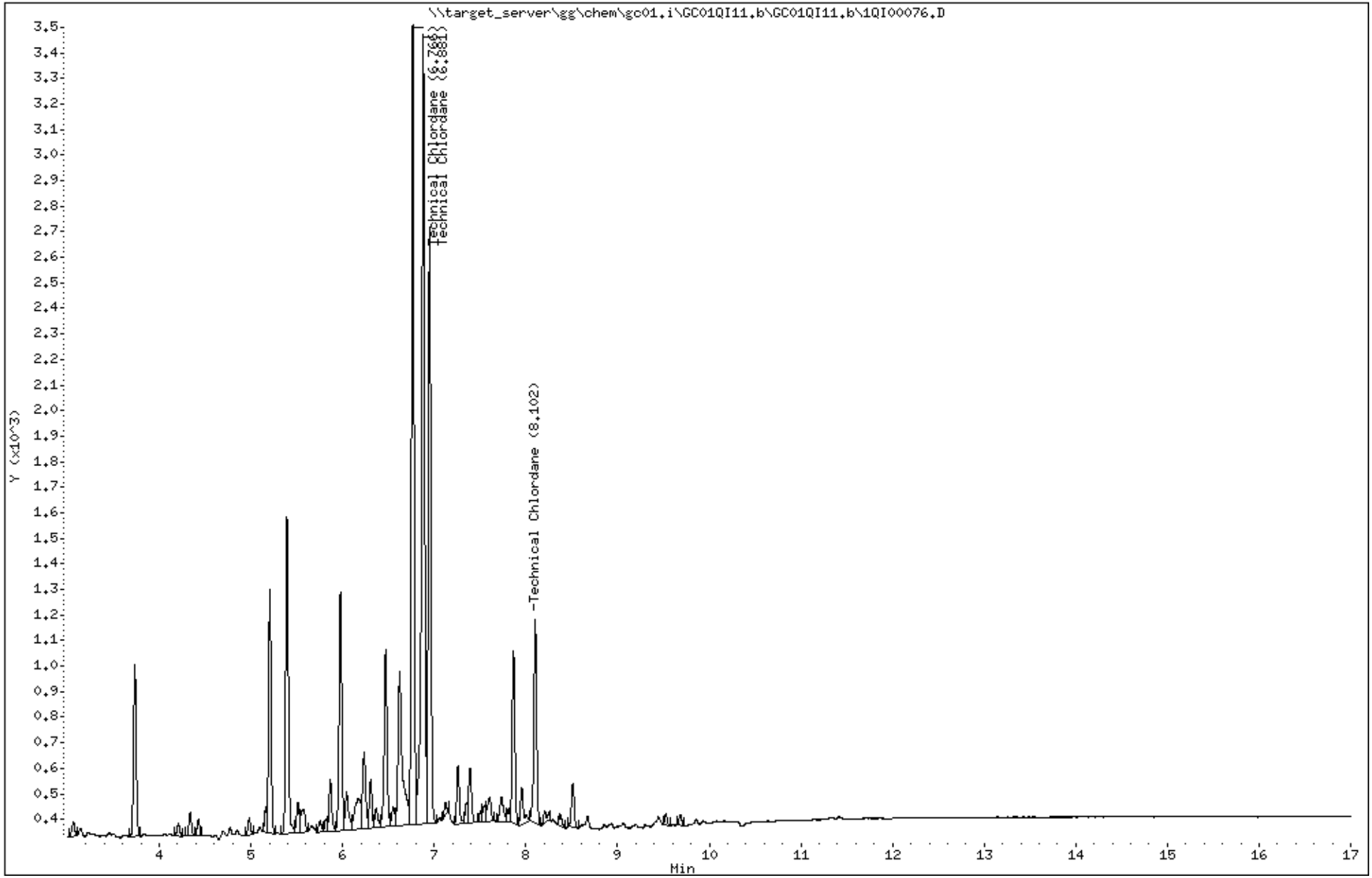
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00076.D
Lab Smp Id: TC 0.1
Inj Date : 12-SEP-2023 13:31
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-3
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 13:31   Cal File: 1QI00076.D
Als bottle: 4   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

			AMOUNTS					
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
6.765	6.765	0.000	3131	0.10000	0.0998	80.00- 120.00	100.00	
6.880	6.881	-0.001	3092	0.10000	0.0993	79.67- 119.51	98.75	
8.102	8.103	-0.001	800	0.10000	0.0975	23.29- 34.93	25.55	
		Average of Peak Amounts =			0.09887			

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00076.D
Date : 12-SEP-2023 13:31
Client ID:
Instrument: gc01.i
Sample Info: WG342487-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00077.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00077.D
Lab Smp Id: TC 0.25
Inj Date : 12-SEP-2023 13:50
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-4
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 13:50   Cal File: 1QI00077.D
Als bottle: 5   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

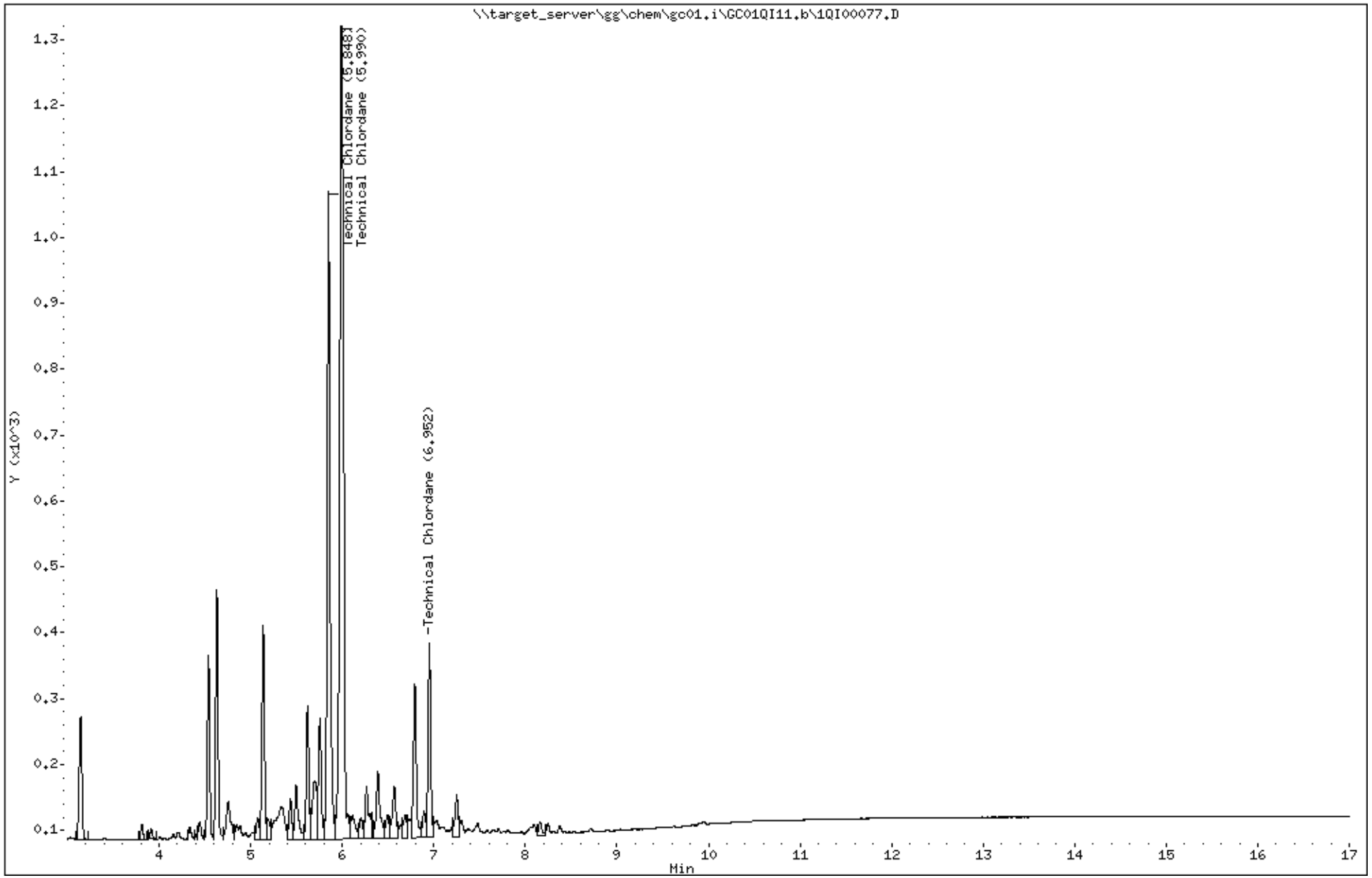
AD
12:48 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
5.848	5.848	0.000	984	0.25000	0.230	80.00- 120.00	100.00(M)	M5
5.988	5.990	-0.002	1233	0.25000	0.230	100.22- 150.34	125.30	M5
6.950	6.952	-0.002	295	0.25000	0.227	24.11- 36.17	29.98	M5
		Average of Peak Amounts =			0.22900			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00077.D
Date : 12-SEP-2023 13:50
Client ID:
Instrument: gc01.i
Sample Info: WG342487-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QI00077.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

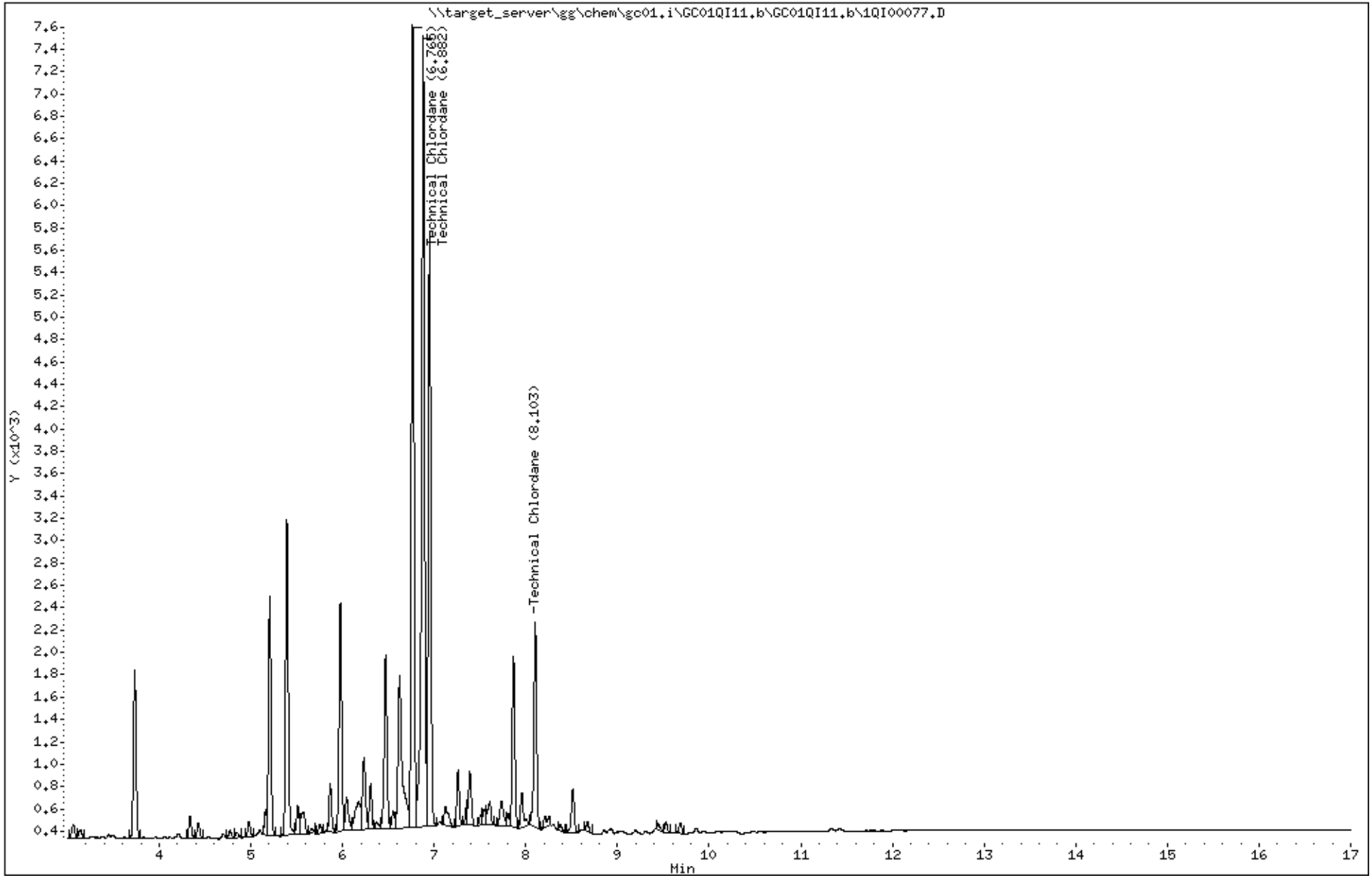
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00077.D
Lab Smp Id: TC 0.25
Inj Date : 12-SEP-2023 13:50
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-4
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 13:50   Cal File: 1QI00077.D
Als bottle: 5   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS					
RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
6.764	6.765	-0.001	7185	0.25000	0.234	80.00- 120.00	100.00	
6.881	6.881	0.000	7078	0.25000	0.233	79.67- 119.51	98.51	
8.103	8.103	0.000	1841	0.25000	0.230	23.29- 34.93	25.62	
Average of Peak Amounts =					0.23233			

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00077.D
Date : 12-SEP-2023 13:50
Client ID:
Instrument: gc01.i
Sample Info: WG342487-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00078.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00078.D
Lab Smp Id: TC 1.0
Inj Date : 12-SEP-2023 14:09
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-5
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 6   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

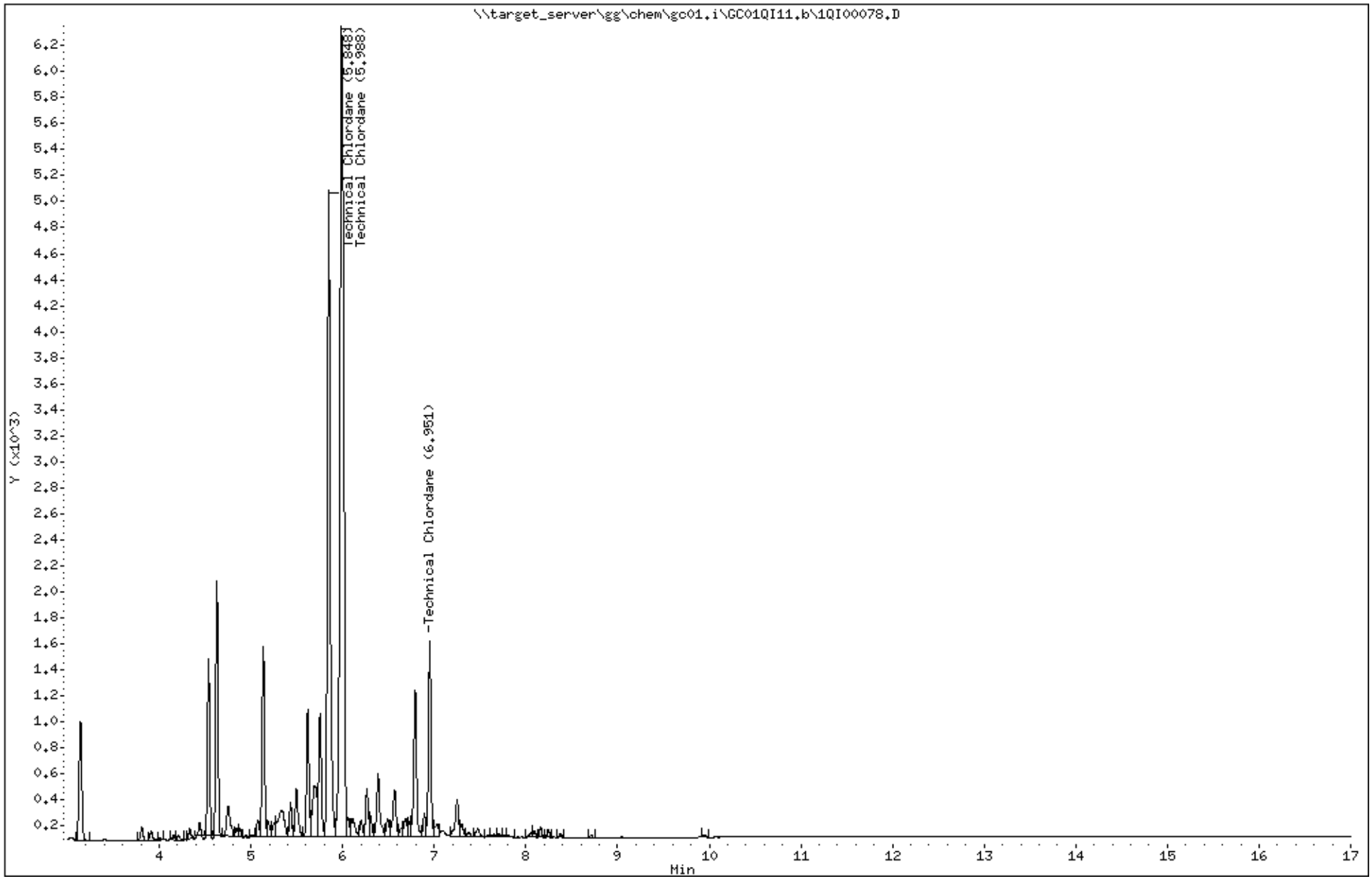
AD
12:51 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
5.847	5.848	-0.001	4973	1.00000	1.16	80.00- 120.00	100.00(M)	M5
5.987	5.990	-0.003	6230	1.00000	1.16	100.22- 150.34	125.28	M5
6.950	6.952	-0.002	1499	1.00000	1.15	24.11- 36.17	30.14	M5
		Average of Peak Amounts =			1.15667			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00078.D
Date : 12-SEP-2023 14:09
Client ID:
Instrument: gc01.i
Sample Info: WG342487-5
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QI00078.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

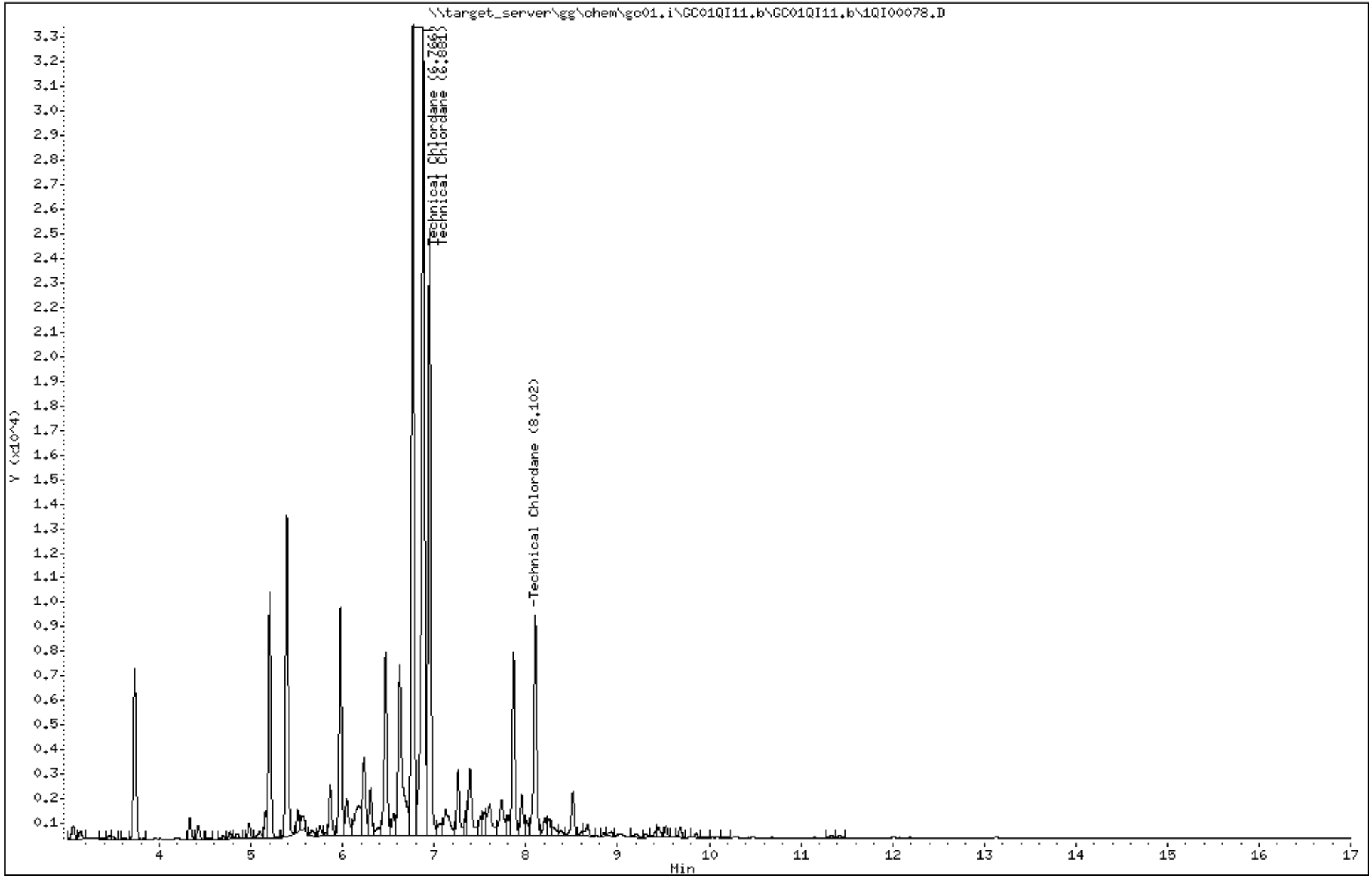
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00078.D
Lab Smp Id: TC 1.0
Inj Date : 12-SEP-2023 14:09
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-5
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 6   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

			AMOUNTS					
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
6.765	6.765	0.000	33009	1.00000	1.06	80.00- 120.00	100.00	
6.880	6.881	-0.001	32880	1.00000	1.06	79.67- 119.51	99.61	
8.102	8.103	-0.001	8924	1.00000	1.09	23.29- 34.93	27.04	
		Average of Peak Amounts =			1.07000			

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00078.D
Date : 12-SEP-2023 14:09
Client ID:
Instrument: gc01.i
Sample Info: WG342487-5
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 364 of 681

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00079.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

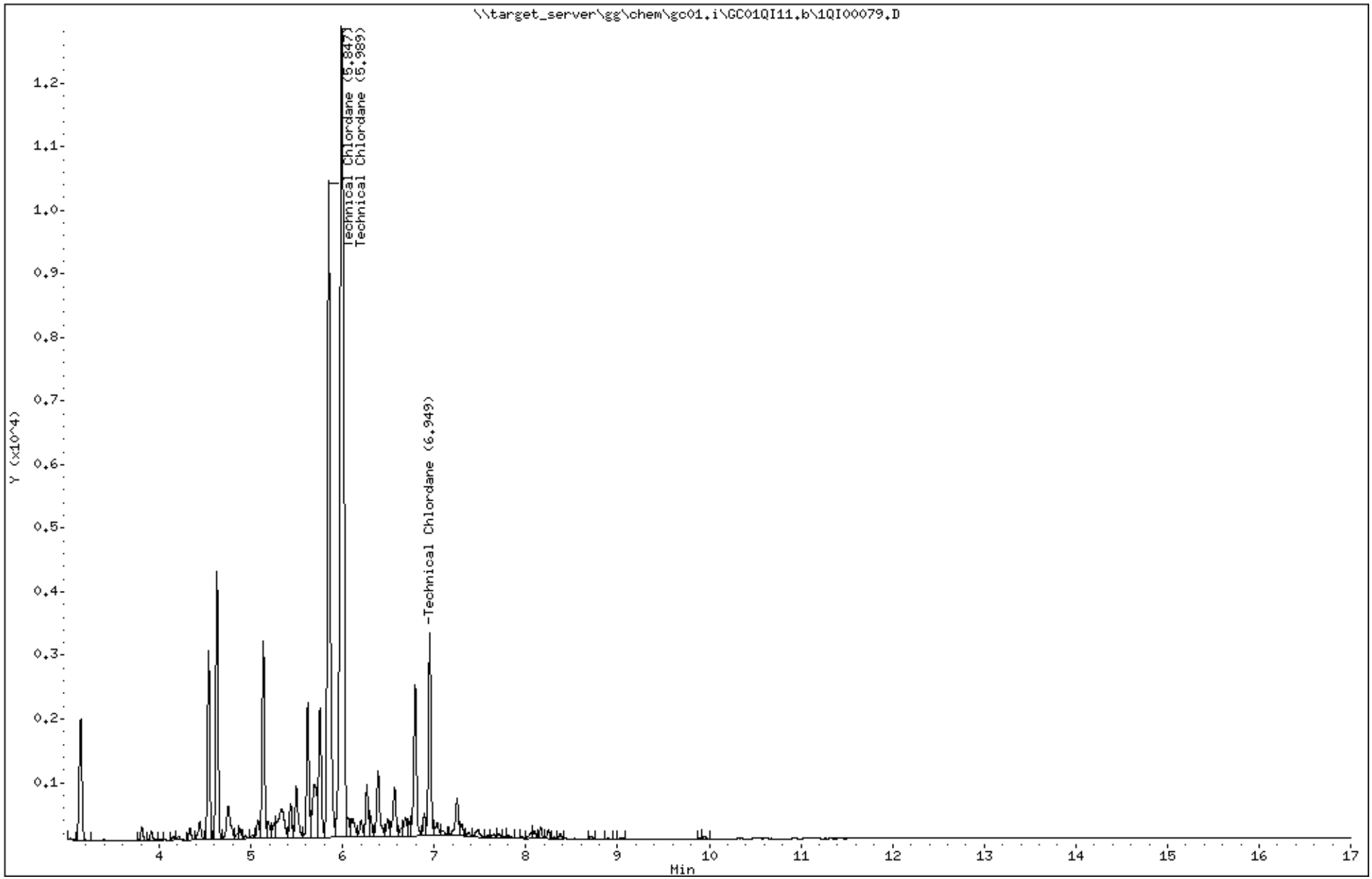
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Lab Smp Id: TC 2.5
Inj Date : 12-SEP-2023 14:29
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-6
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29   Cal File: 1QI00079.D
Als bottle: 7   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane						CAS #: 12789-03-6		
5.847	5.848	-0.001	10331	2.50000	2.44	80.00- 120.00	100.00	
5.988	5.990	-0.002	12753	2.50000	2.40	100.22- 150.34	123.44	
6.948	6.952	-0.004	3180	2.50000	2.52	24.11- 36.17	30.78	
		Average of Peak Amounts =			2.45333			

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00079.D
Date : 12-SEP-2023 14:29
Client ID:
Instrument: gc01.i
Sample Info: WG342487-6
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 366 of 681

Data File: 1QI00079.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00079.D
Lab Smp Id: TC 2.5
Inj Date : 12-SEP-2023 14:29
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-6
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29   Cal File: 1QI00079.D
Als bottle: 7   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

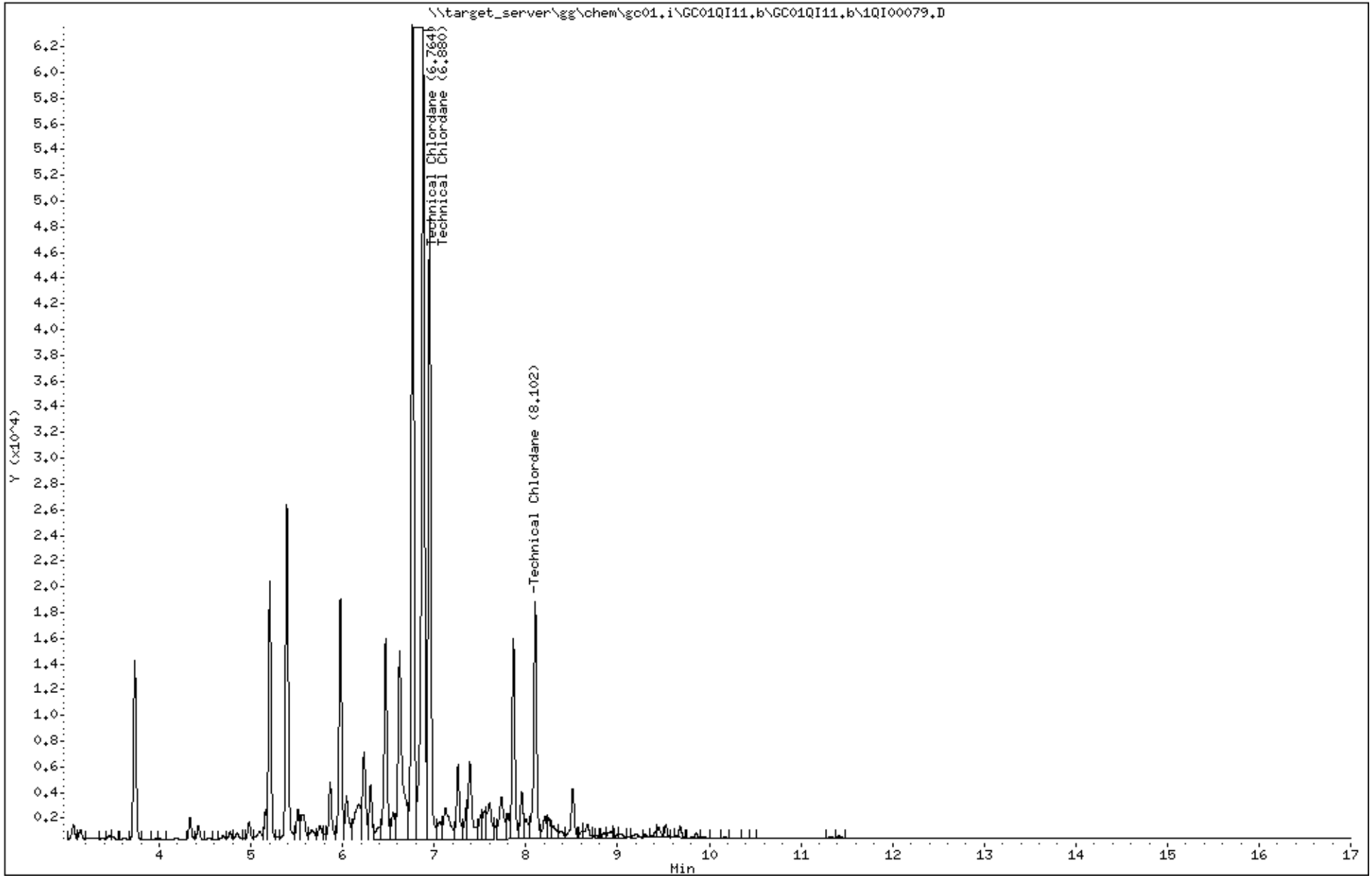
AD
12:51 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
6.763	6.765	-0.002	63389	2.50000	2.10	80.00- 120.00	100.00(M)	M5
6.880	6.881	-0.001	63129	2.50000	2.11	79.67- 119.51	99.59	M5
8.101	8.103	-0.002	18451	2.50000	2.29	23.29- 34.93	29.11	M5
		Average of Peak Amounts =			2.16667			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00079.D
Date : 12-SEP-2023 14:29
Client ID:
Instrument: gc01.i
Sample Info: WG342487-6
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00080.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

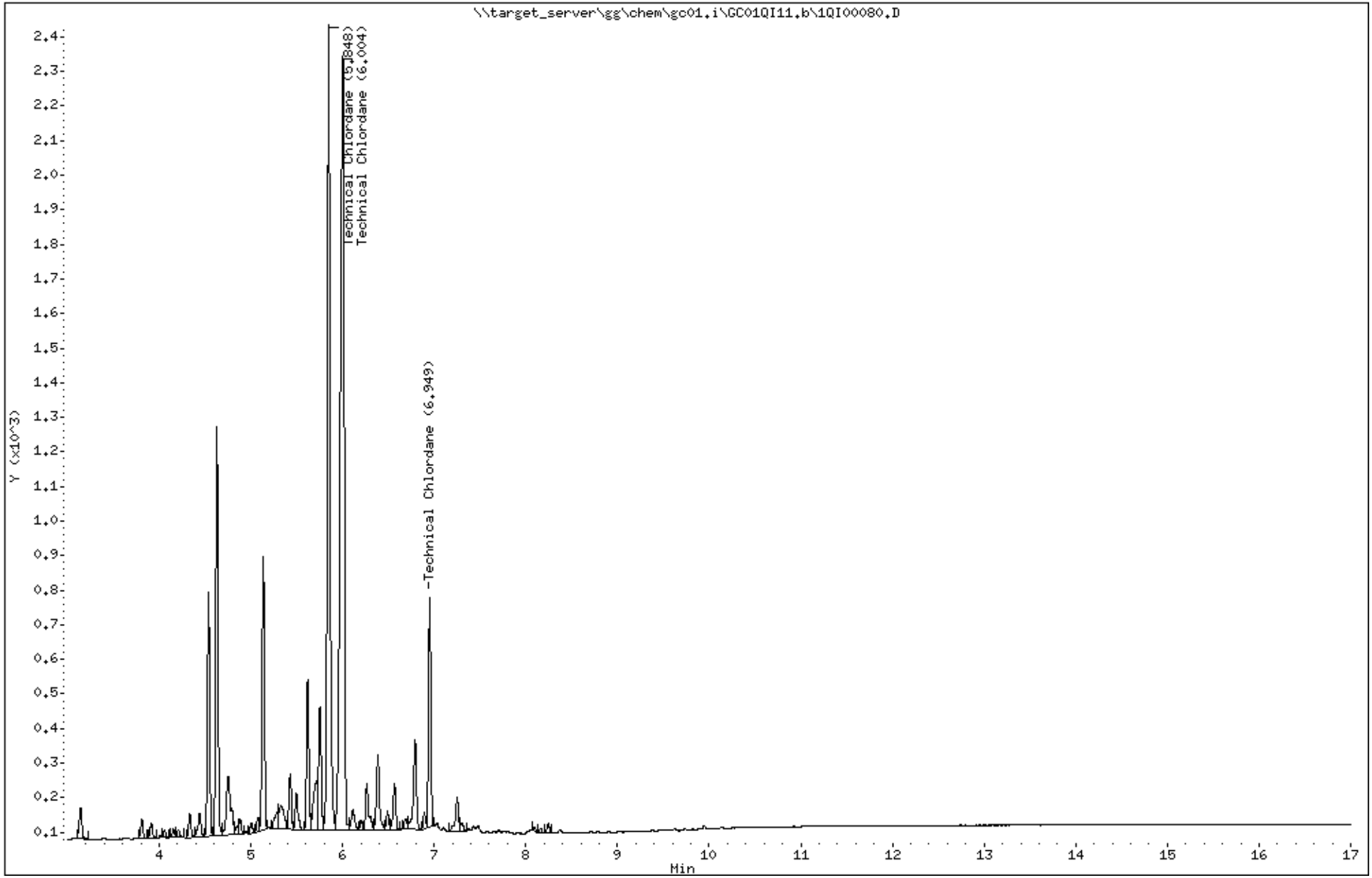
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Lab Smp Id: TC IND 0.5
Inj Date : 12-SEP-2023 14:48
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-7
Misc Info : WG342487,WG342487,WG342487,SQ4875-3
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 8   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
5.847	5.848	-0.001	2328	0.54449	0.544	80.00- 120.00	100.00	
6.004	5.990	0.014	2239	0.41784	0.418	100.22- 150.34	96.18	
6.949	6.952	-0.003	663	0.50876	0.509	24.11- 36.17	28.48	
		Average of Peak Concentrations =			0.490			

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00080.D
Date : 12-SEP-2023 14:48
Client ID:
Instrument: gc01.i
Sample Info: WG342487-7
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 370 of 681

Data File: 1QI00080.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

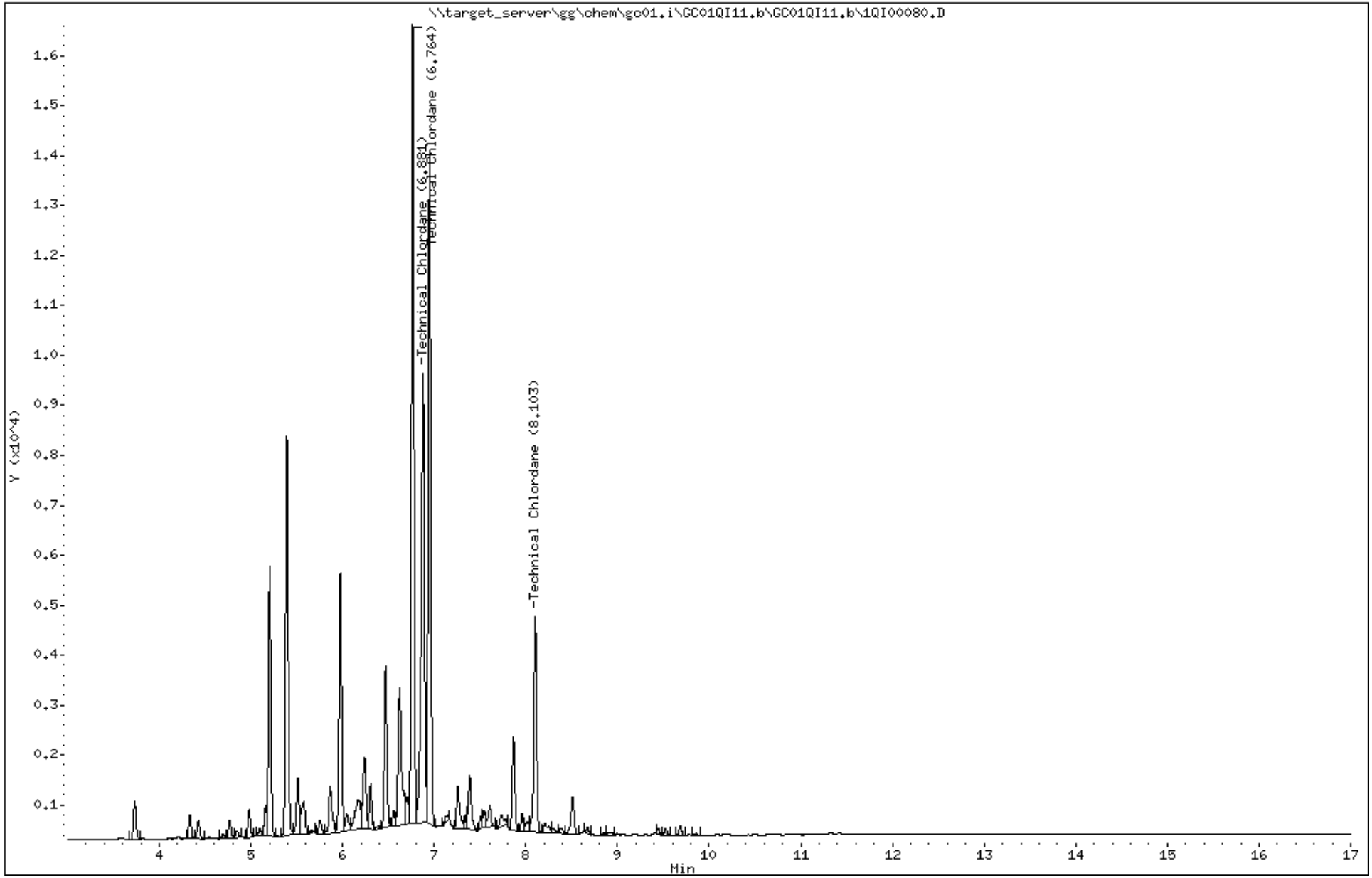
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Lab Smp Id: TC IND 0.5
Inj Date : 12-SEP-2023 14:48
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-7
Misc Info : WG342487,WG342487,WG342487,SQ4875-3
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29   Cal File: 1QI00079.D
Als bottle: 8   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/L)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane						CAS #: 12789-03-6		
6.764	6.765	-0.001	15994	0.52967	0.530	80.00- 120.00	100.00	
6.880	6.881	-0.001	8981	0.29962	0.300	79.67- 119.51	56.15	
8.102	8.103	-0.001	4298	0.53400	0.534	23.29- 34.93	26.87	
		Average of Peak Concentrations =			0.454			

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00080.D
Date : 12-SEP-2023 14:48
Client ID:
Instrument: gc01.i
Sample Info: WG342487-7
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343657-2
Analytical Date: 10/06/23 12:32
Lab File ID: 1QJ00034.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: A

Compound	RRF/Amount	RF0.050	CCAL RRF0.050	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
gamma-BHC	50232	49040	49040	0.001	-2.37299	20.000	Averaged	
Heptachlor	41717	42300	42300	0.001	1.39832	20.000	Averaged	
Heptachlor Epoxide	40015	36400	36400	0.001	-9.03487	20.000	Averaged	
4,4'-DDE	41119	37520	37520	0.001	-8.75264	20.000	Averaged	
Endrin	36740	31080	31080	0.001	-15.40479	20.000	Averaged	
4,4'-DDD	32912	29940	29940	0.001	-9.02922	20.000	Averaged	
4,4'-DDT	35180	30120	30120	0.001	-14.38236	20.000	Averaged	
Endrin Aldehyde	23977	21720	21720	0.001	-9.41319	20.000	Averaged	
Methoxychlor	18268	14800	14800	0.001	-18.98402	20.000	Averaged	
Endrin Ketone	30119	33060	33060	0.001	9.76582	20.000	Averaged	
Tetrachloro-m-Xylene	33357	32460	32460	0.001	-2.69006	20.000	Averaged	
Decachlorobiphenyl	29178	24900	24900	0.001	-14.66271	20.000	Averaged	

*** = Compound out of QC criteria**

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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http://katahdinlab.com
sales@katahdinlab.com

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00034.D
Report Date: 01-Nov-2023 10:46

Katahdin Analytical Services

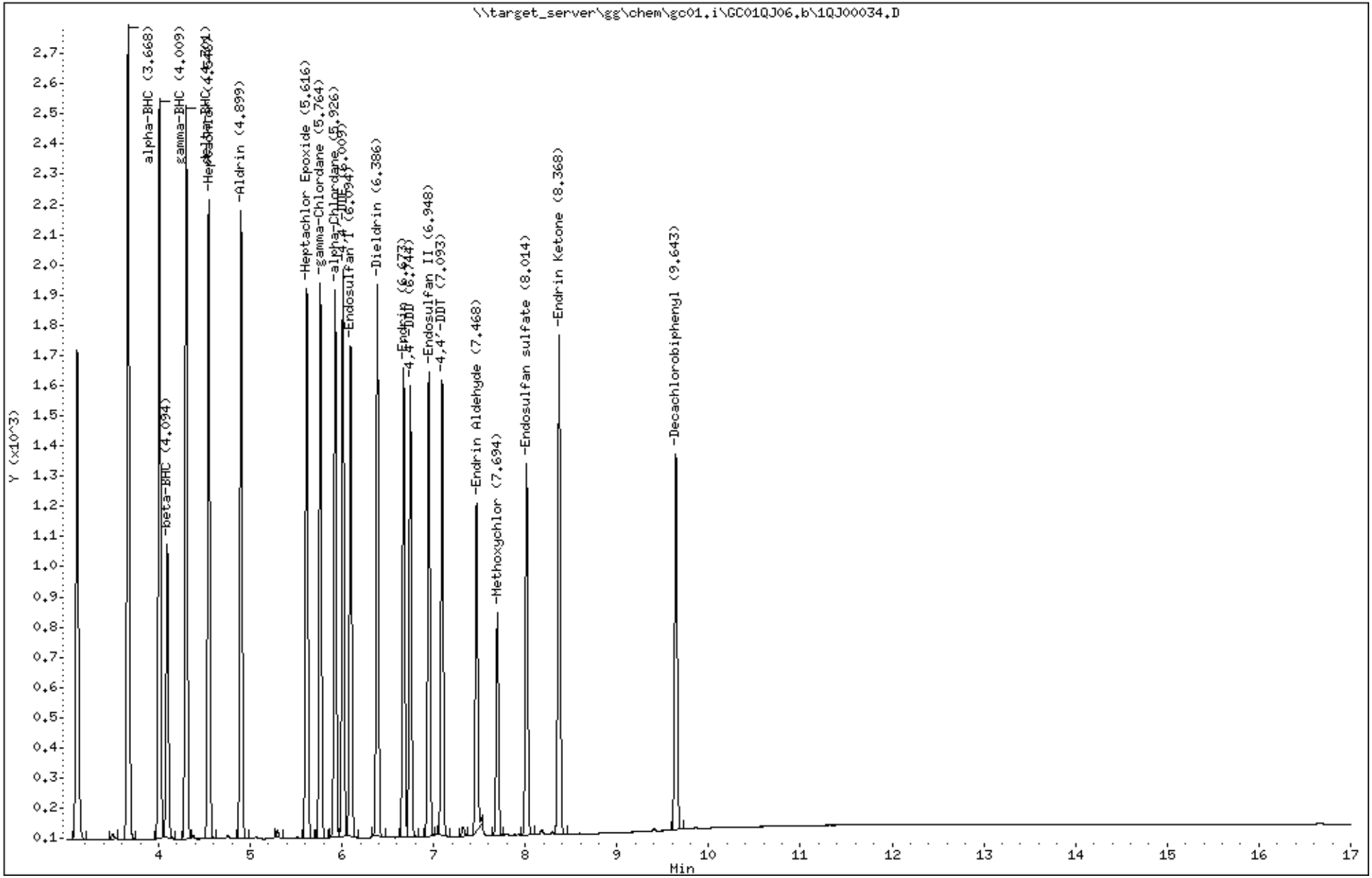
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Lab Smp Id: INDAB 0.05
Inj Date : 06-OCT-2023 12:32
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-2
Misc Info : WG343657,WG343657,WG342485-2,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 3   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.112	3.111	0.001	1623	0.05000	0.0486	
	5 alpha-BHC	3.667	3.666	0.001	2699	0.05000	0.0500	
	6 gamma-BHC	4.009	4.006	0.003	2452	0.05000	0.0488	
	7 beta-BHC	4.094	4.091	0.003	972	0.05000	0.0448	
	8 delta-BHC	4.301	4.298	0.003	2431	0.05000	0.0501	
	9 Heptachlor	4.546	4.543	0.003	2115	0.05000	0.0507	
	10 Aldrin	4.899	4.896	0.003	2081	0.05000	0.0473	
	13 Heptachlor Epoxide	5.616	5.611	0.005	1820	0.05000	0.0455	
	15 gamma-Chlordane	5.764	5.760	0.004	1839	0.05000	0.0455	
	17 alpha-Chlordane	5.926	5.921	0.005	1813	0.05000	0.0445	
	19 4,4'-DDE	6.009	6.006	0.003	1876	0.05000	0.0456	
	20 Endosulfan I	6.094	6.091	0.003	1624	0.05000	0.0453	
	21 Dieldrin	6.386	6.383	0.003	1830	0.05000	0.0465	
	23 Endrin	6.672	6.668	0.004	1554	0.05000	0.0423	
	24 4,4'-DDD	6.744	6.741	0.003	1497	0.05000	0.0455	
	26 Endosulfan II	6.947	6.945	0.002	1541	0.05000	0.0459	
	27 4,4'-DDT	7.092	7.088	0.004	1506	0.05000	0.0428	
	28 Endrin Aldehyde	7.467	7.465	0.002	1086	0.05000	0.0453	
	29 Methoxychlor	7.694	7.691	0.003	740	0.05000	0.0405	
	32 Endosulfan sulfate	8.014	8.010	0.004	1233	0.05000	0.0557	
	33 Endrin Ketone	8.367	8.365	0.002	1653	0.05000	0.0549	
$	34 Decachlorobiphenyl	9.642	9.638	0.004	1245	0.05000	0.0427	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00034.D
Date : 06-OCT-2023 12:32
Client ID:
Instrument: gc01.i
Sample Info: WG343657-2
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343657-2
Analytical Date: 10/06/23 12:32
Lab File ID: 1QJ00034.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: B

Compound	RRF/Amount	RF0.050	CCAL RRF0.050	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
gamma-BHC	357523	323780	323780	0.001	-9.43791	20.000	Averaged	
Heptachlor	272287	253600	253600	0.001	-6.86287	20.000	Averaged	
Heptachlor Epoxide	268124	238180	238180	0.001	-11.16797	20.000	Averaged	
4,4'-DDE	273505	239580	239580	0.001	-12.40380	20.000	Averaged	
Endrin	232453	194520	194520	0.001	-16.31869	20.000	Averaged	
4,4'-DDD	219364	197580	197580	0.001	-9.93039	20.000	Averaged	
4,4'-DDT	226090	192140	192140	0.001	-15.01614	20.000	Averaged	
Endrin Aldehyde	147961	133280	133280	0.001	-9.92201	20.000	Averaged	
Methoxychlor	112050	93140	93140	0.001	-16.87615	20.000	Averaged	
Endrin Ketone	179781	194260	194260	0.001	8.05369	20.000	Averaged	
Tetrachloro-m-Xylene	247878	226160	226160	0.001	-8.76145	20.000	Averaged	
Decachlorobiphenyl	138186	120920	120920	0.001	-12.49496	20.000	Averaged	

*** = Compound out of QC criteria**

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http://katahdinlab.com
sales@katahdinlab.com

Data File: 1QJ00034.D
Report Date: 01-Nov-2023 10:46

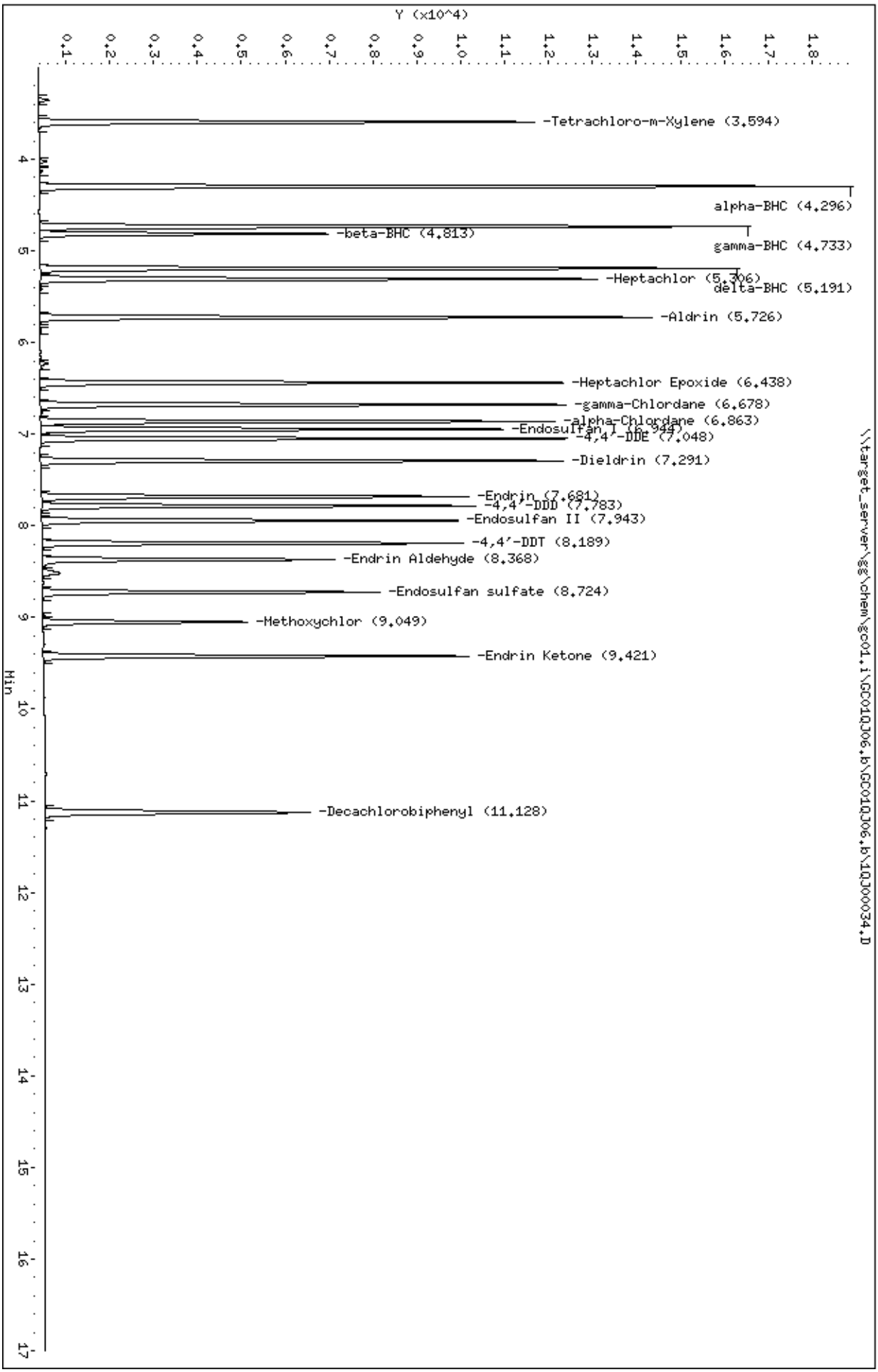
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00034.D
Lab Smp Id: INDAB 0.05
Inj Date : 06-OCT-2023 12:32
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-2
Misc Info : WG343657,WG343657,WG342485-2,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29   Cal File: 1QI00079.D
Als bottle: 3   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.594	3.591	0.003	11308	0.05000	0.0456	
	5 alpha-BHC	4.295	4.293	0.002	18537	0.05000	0.0463	
	6 gamma-BHC	4.732	4.728	0.004	16189	0.05000	0.0453	
	7 beta-BHC	4.812	4.809	0.003	6582	0.05000	0.0434	
	8 delta-BHC	5.190	5.188	0.002	15943	0.05000	0.0477	
	9 Heptachlor	5.305	5.303	0.002	12680	0.05000	0.0466	
	10 Aldrin	5.725	5.723	0.002	13955	0.05000	0.0457	
	13 Heptachlor Epoxide	6.437	6.433	0.004	11909	0.05000	0.0444	
	15 gamma-Chlordane	6.677	6.673	0.004	11961	0.05000	0.0435	
	17 alpha-Chlordane	6.862	6.858	0.004	11705	0.05000	0.0443	
	19 4,4'-DDE	7.047	7.044	0.003	11979	0.05000	0.0438	
	20 Endosulfan I	6.944	6.941	0.003	10529	0.05000	0.0443	
	21 Dieldrin	7.290	7.288	0.002	11899	0.05000	0.0445	
	23 Endrin	7.680	7.678	0.002	9726	0.05000	0.0418	
	24 4,4'-DDD	7.782	7.779	0.003	9879	0.05000	0.0450	
	26 Endosulfan II	7.942	7.939	0.003	9482	0.05000	0.0440	
	27 4,4'-DDT	8.189	8.186	0.003	9607	0.05000	0.0425	
	28 Endrin Aldehyde	8.367	8.363	0.004	6664	0.05000	0.0450	
	29 Methoxychlor	9.049	9.044	0.005	4657	0.05000	0.0416	
	32 Endosulfan sulfate	8.724	8.719	0.005	7686	0.05000	0.0548	
	33 Endrin Ketone	9.420	9.418	0.002	9713	0.05000	0.0540	
$	34 Decachlorobiphenyl	11.127	11.119	0.008	6046	0.05000	0.0438	


Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00034.D
Date : 06-OCT-2023 12:32
Client ID:
Sample Info: WG343657-2
Purge Volume: 1.0
Column phase: ZB-Multiresidue-2
Instrument: gc01.i
Operator: AD
Column diameter: 0.53
\\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00034.D
Y (x10^4)
Min
-Tetrachloro-m-Xylene (3.594)
alpha-BHC (4.296)
-beta-BHC (4.813)
gamma-BHC (4.733)
-Heptachlor (5.306)
delta-BHC (5.191)
-Aldrin (5.726)
-Heptachlor Epoxide (6.438)
-gamma-Chlordane (6.678)
-alpha-Chlordane (6.863)
-Endosulfan I (6.944)
-4,4'-DDE (7.048)
-Dieldrin (7.291)
-Endrin (7.681)
-4,4'-DDD (7.783)
-Endosulfan II (7.943)
-4,4'-DDT (8.189)
-Endrin Aldehyde (8.368)
-Endosulfan sulfate (8.724)
-Methoxychlor (9.049)
-Endrin Ketone (9.421)
-Decachlorobiphenyl (11.128)

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343657-3
Analytical Date: 10/06/23 15:13
Lab File ID: 1QJ00035.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: A

Compound	RRF/Amount	RF0.050	CCAL RRF0.050	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Toxaphene(1)	223	194	194	0.001	-13.07595	20.000	Averaged	
Toxaphene(2)	376	316	316	0.001	-16.00213	20.000	Averaged	
Toxaphene(3)	382	343	343	0.001	-10.13885	20.000	Averaged	
Toxaphene(4)	586	525	525	0.001	-10.45540	20.000	Averaged	
Toxaphene(5)	709	617	617	0.001	-12.93099	20.000	Averaged	
Toxaphene(6)	725	645	645	0.001	-11.07332	20.000	Averaged	
Toxaphene(7)	889	801	801	0.001	-9.87849	20.000	Averaged	
Toxaphene(8)	653	593	593	0.001	-9.17213	20.000	Averaged	
Toxaphene(9)	652	575	575	0.001	-11.85488	20.000	Averaged	

*** = Compound out of QC criteria**

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Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00035.D
Report Date: 01-Nov-2023 10:46

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00035.D
Lab Smp Id: TOX 1.0
Inj Date : 06-OCT-2023 15:13
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-3
Misc Info : WG343657,WG343657,WG342486,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 1   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

AD

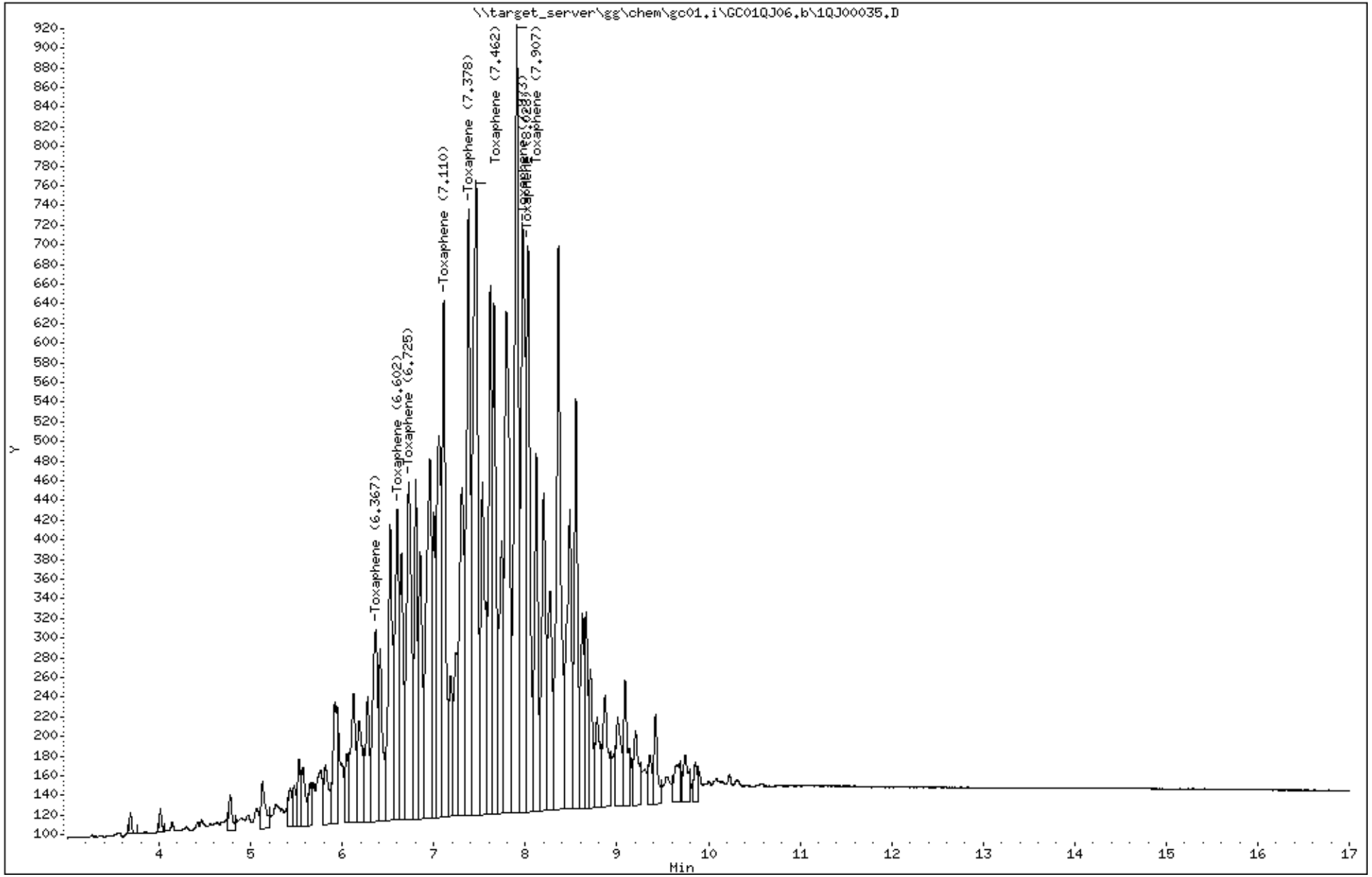
12:03 pm, Nov 01, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
6.365	6.387	-0.022	194	1.00000	0.869	80.00- 120.00	100.00(M)	M5
6.600	6.619	-0.019	316	1.00000	0.840	117.33- 176.00	162.89	M5
6.723	6.699	0.024	343	1.00000	0.899	152.89- 229.33	176.80	M5
7.108	7.085	0.023	525	1.00000	0.895	222.22- 333.33	270.62	M5
7.378	7.355	0.023	617	1.00000	0.871	256.89- 385.33	318.04	M5
7.461	7.437	0.024	645	1.00000	0.889	256.00- 384.00	332.47	M5
7.906	7.884	0.022	801	1.00000	0.901	327.11- 490.67	412.89	M5
7.973	7.947	0.026	593	1.00000	0.908	224.89- 337.33	305.67	M5
8.028	8.005	0.023	575	1.00000	0.881	217.78- 326.67	296.39	M5
		Average of Peak Amounts =			0.88367			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00035.D
Date : 06-OCT-2023 15:13
Client ID:
Instrument: gc01.i
Sample Info: WG343657-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 381 of 681

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343657-3
Analytical Date: 10/06/23 15:13
Lab File ID: 1QJ00035.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: B

Compound	RRF/Amount	RF0.050	CCAL RRF0.050	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Toxaphene(1)	2226	2007	2007	0.001	-9.84435	20.000	Averaged	
Toxaphene(2)	1873	1665	1665	0.001	-11.10834	20.000	Averaged	
Toxaphene(3)	2488	2098	2098	0.001	-15.66168	20.000	Averaged	
Toxaphene(4)	2612	2319	2319	0.001	-11.23105	20.000	Averaged	
Toxaphene(5)	2742	2390	2390	0.001	-12.85218	20.000	Averaged	
Toxaphene(6)	4785	4255	4255	0.001	-11.07628	20.000	Averaged	
Toxaphene(7)	5460	4925	4925	0.001	-9.79330	20.000	Averaged	
Toxaphene(8)	3457	3073	3073	0.001	-11.11990	20.000	Averaged	
Toxaphene(9)	3264	2934	2934	0.001	-10.10616	20.000	Averaged	

*** = Compound out of QC criteria**

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Data File: 1QJ00035.D
Report Date: 01-Nov-2023 10:46

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00035.D
Lab Smp Id: TOX 1.0
Inj Date : 06-OCT-2023 15:13
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-3
Misc Info : WG343657,WG343657,WG342486,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29   Cal File: 1QI00079.D
Als bottle: 1   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

AD

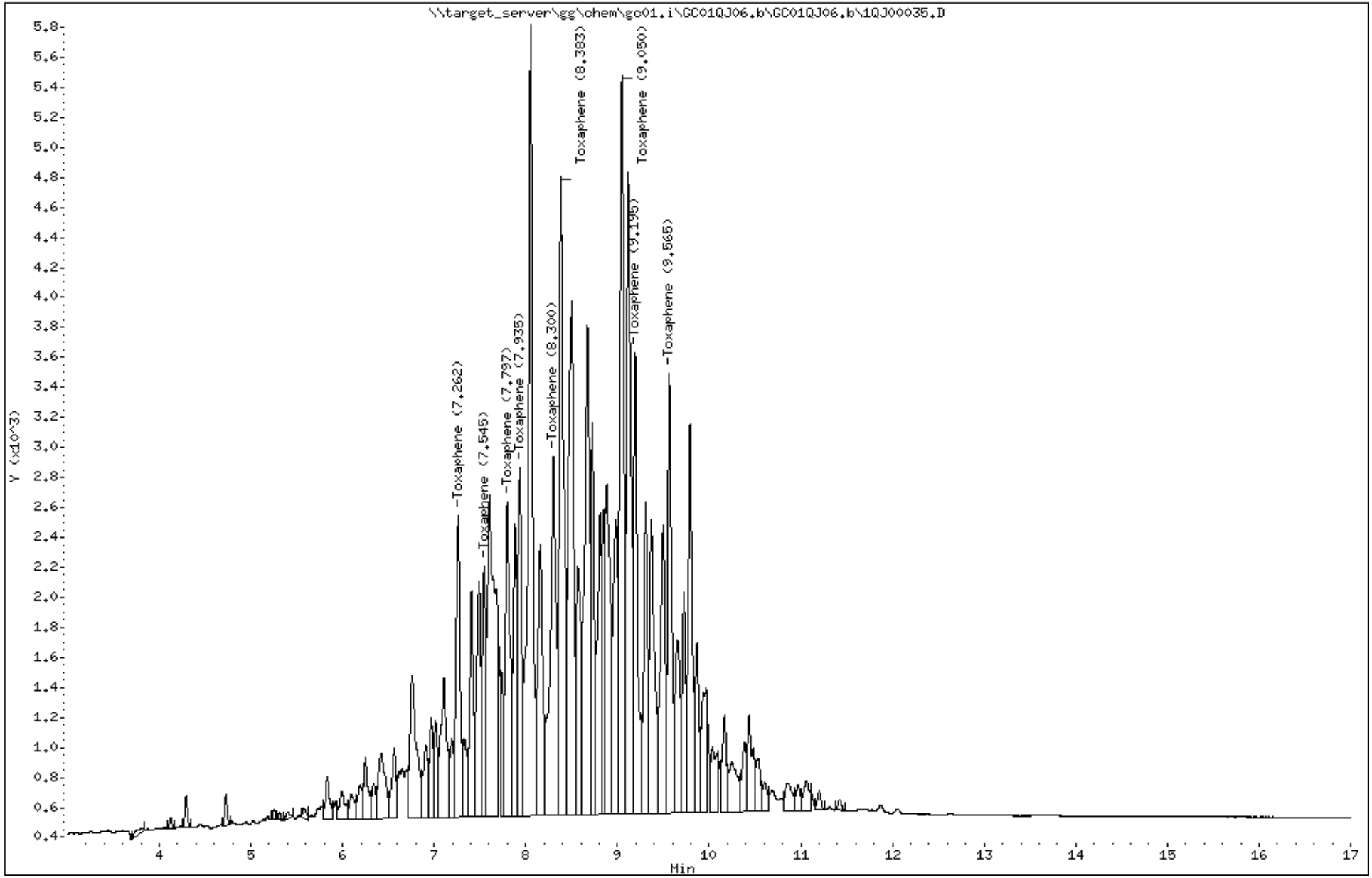
12:03 pm, Nov 01, 2023

			AMOUNTS					
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
7.261	7.255	0.006	2007	1.00000	0.902	80.00- 120.00	100.00(M)	M5
7.544	7.539	0.005	1665	1.00000	0.889	68.25- 102.38	82.96	M5
7.796	7.789	0.007	2098	1.00000	0.843	78.31- 117.47	104.53	M5
7.934	7.927	0.007	2319	1.00000	0.888	86.37- 129.56	115.55	M5
8.299	8.292	0.007	2390	1.00000	0.871	88.37- 132.55	119.08	M5
8.383	8.375	0.008	4255	1.00000	0.889	157.54- 236.31	212.01	M5
9.049	9.042	0.007	4925	1.00000	0.902	173.13- 259.69	245.39	M5
9.194	9.185	0.009	3073	1.00000	0.889	106.33- 159.50	153.11	M5
9.564	9.557	0.007	2934	1.00000	0.899	102.11- 153.17	146.19	M5
		Average of Peak Amounts =			0.88578			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00035.D
Date : 06-OCT-2023 15:13
Client ID:
Instrument: gc01.i
Sample Info: WG343657-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 384 of 681

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343657-4
Analytical Date: 10/06/23 15:32
Lab File ID: 1QJ00036.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: A

Compound	RRF/Amount	RF0.050	CCAL RRF0.050	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Technical Chlordane(1)	4276	3862	3862	0.001	-9.67279	20.000	Averaged	
Technical Chlordane(2)	5359	4896	4896	0.001	-8.63172	20.000	Averaged	
Technical Chlordane(3)	1303	1148	1148	0.001	-11.90689	20.000	Averaged	

*** = Compound out of QC criteria**

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Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00036.D
Report Date: 01-Nov-2023 10:46

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00036.D
Lab Smp Id: TC 0.5
Inj Date : 06-OCT-2023 15:32
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-4
Misc Info : WG343657,WG343657,WG342487,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 2   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

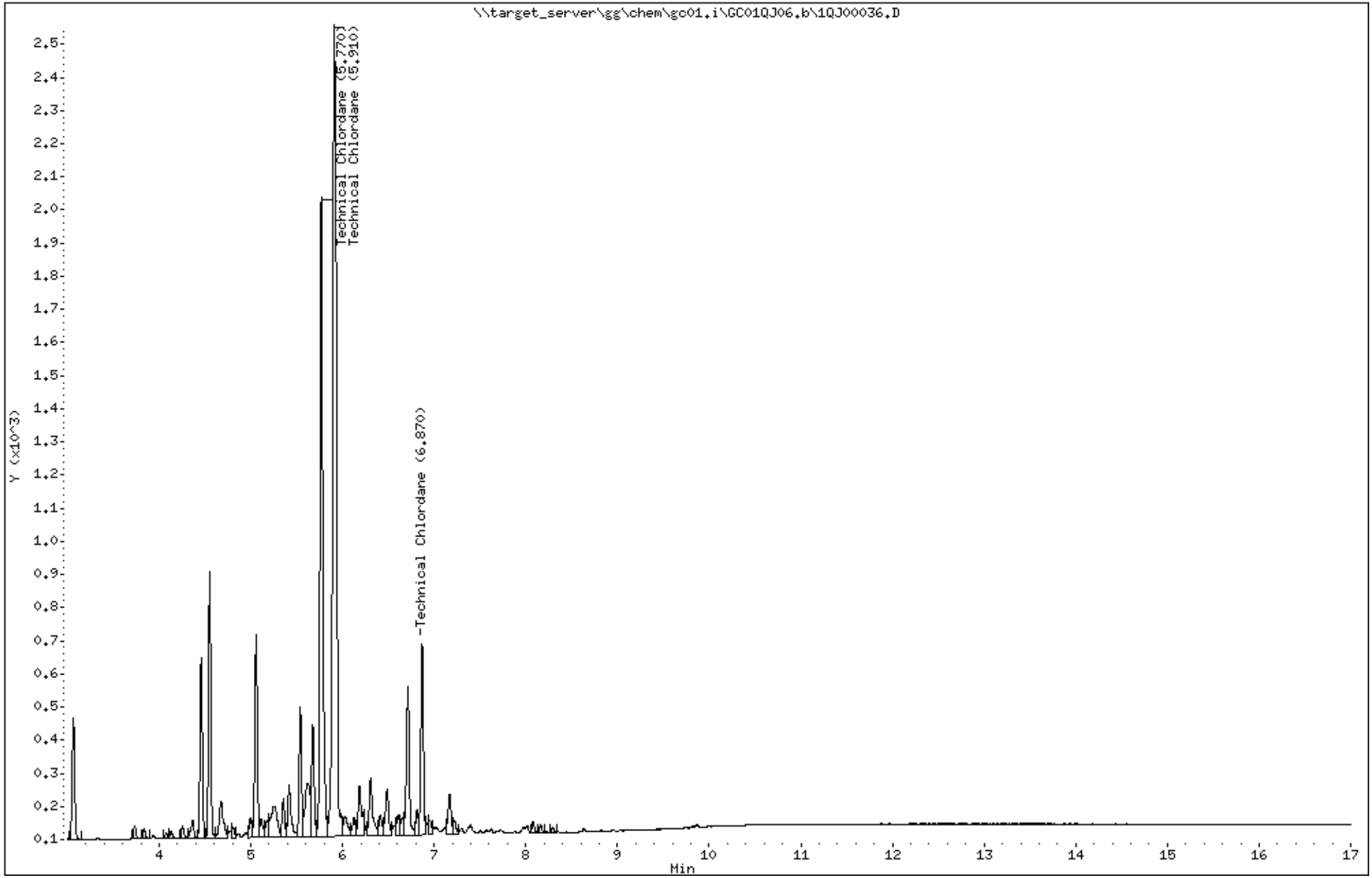
AD
12:03 pm, Nov 01, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
5.768	5.760	0.008	1931	0.50000	0.452	80.00- 120.00	100.00(M)	M5
5.909	5.901	0.008	2448	0.50000	0.457	101.50- 152.24	126.77	M5
6.869	6.860	0.009	574	0.50000	0.440	22.80- 34.19	29.73	M5
Average of Peak Amounts =					0.44967			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00036.D
Date : 06-OCT-2023 15:32
Client ID:
Instrument: gc01.i
Sample Info: WG343657-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343657-4
Analytical Date: 10/06/23 15:32
Lab File ID: 1QJ00036.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: B

Compound	RRF/Amount	RF0.050	CCAL RRF0.050	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Technical Chlordane(1)	30196	26936	26936	0.001	-10.79741	20.000	Averaged	
Technical Chlordane(2)	29974	26794	26794	0.001	-10.60999	20.000	Averaged	
Technical Chlordane(3)	8049	6970	6970	0.001	-13.40252	20.000	Averaged	

*** = Compound out of QC criteria**

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Data File: 1QJ00036.D
Report Date: 01-Nov-2023 10:46

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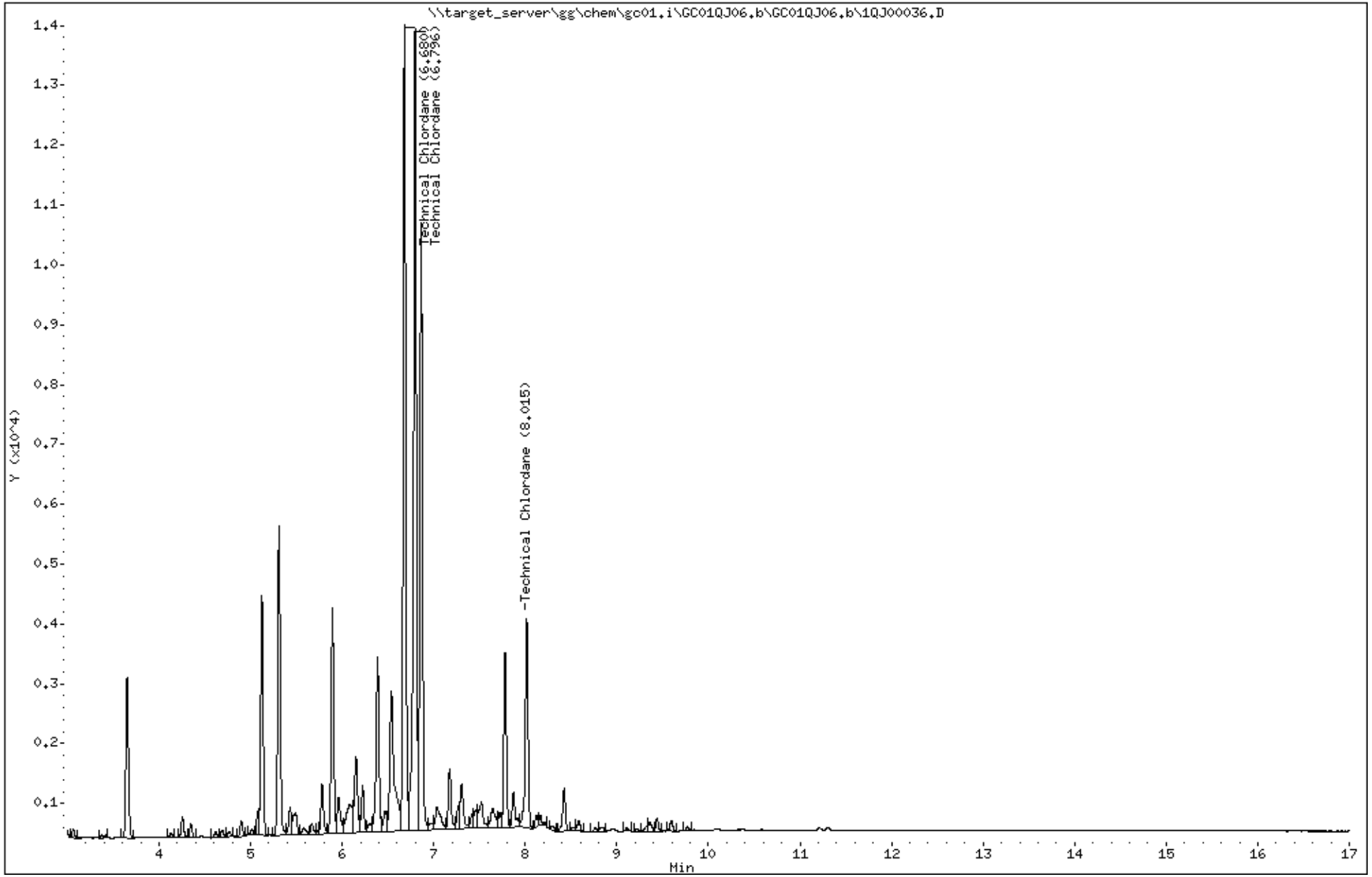
Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00036.D
Lab Smp Id: TC 0.5
Inj Date : 06-OCT-2023 15:32
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-4
Misc Info : WG343657,WG343657,WG342487,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29   Cal File: 1QI00079.D
Als bottle: 2   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

			AMOUNTS					
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
6.679	6.673	0.006	13468	0.50000	0.446	80.00- 120.00	100.00	
6.796	6.790	0.006	13397	0.50000	0.447	77.28- 115.91	99.47	
8.014	8.008	0.006	3485	0.50000	0.433	19.41- 29.11	25.88	
Average of Peak Amounts =					0.44200			

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00036.D
Date : 06-OCT-2023 15:32
Client ID:
Instrument: gc01.i
Sample Info: WG343657-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 390 of 681

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343657-5
Analytical Date: 10/06/23 20:25
Lab File ID: 1QJ00051.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: A

Compound	$\overline{\text{RRF}}$/Amount	RF0.025	CCAL RRF0.025	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
gamma-BHC	50232	45400	45400	0.001	-9.61937	20.000	Averaged	
Heptachlor	41717	39880	39880	0.001	-4.40272	20.000	Averaged	
Heptachlor Epoxide	40015	35200	35200	0.001	-12.03372	20.000	Averaged	
4,4'-DDE	41119	35680	35680	0.001	-13.22746	20.000	Averaged	
Endrin	36740	27800	27800	0.001	-24.33247	20.000	Averaged	*
4,4'-DDD	32912	29240	29240	0.001	-11.15612	20.000	Averaged	
4,4'-DDT	35180	24520	24520	0.001	-30.30065	20.000	Averaged	*
Endrin Aldehyde	23977	21600	21600	0.001	-9.91367	20.000	Averaged	
Methoxychlor	18268	13120	13120	0.001	-28.18042	20.000	Averaged	*
Endrin Ketone	30119	32720	32720	0.001	8.63695	20.000	Averaged	
Tetrachloro-m-Xylene	33357	30160	30160	0.001	-9.58510	20.000	Averaged	
Decachlorobiphenyl	29178	24960	24960	0.001	-14.45707	20.000	Averaged	

*** = Compound out of QC criteria**

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Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00051.D
Report Date: 01-Nov-2023 10:46

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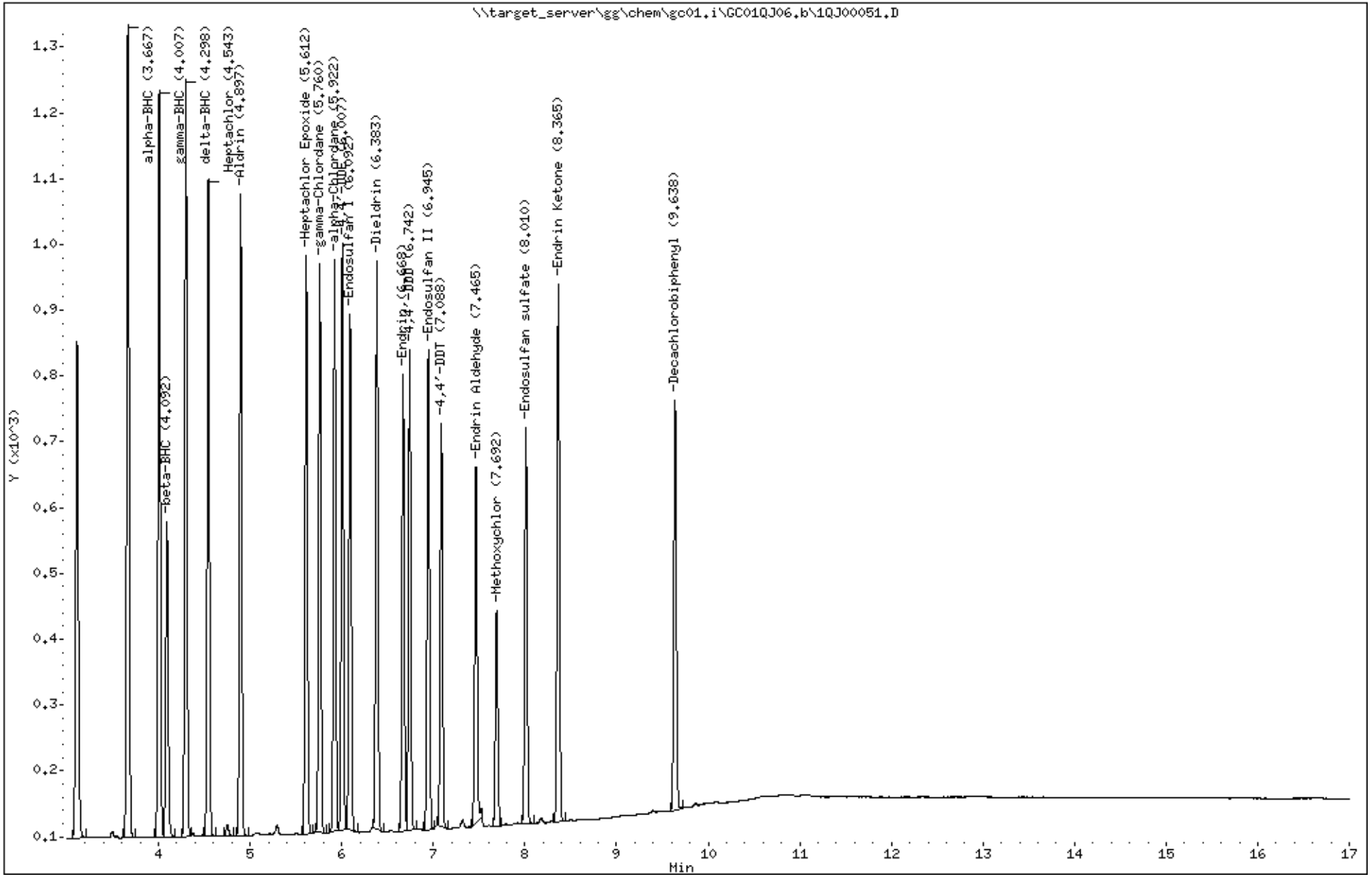
Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00051.D
Lab Smp Id: INDAB 0.025
Inj Date : 06-OCT-2023 20:25
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-5
Misc Info : WG343657,WG343657,WG342485-2,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 16   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.111	3.111	0.000	754	0.05000	0.0226	
	5 alpha-BHC	3.666	3.666	0.000	1235	0.05000	0.0229	
	6 gamma-BHC	4.006	4.006	0.000	1135	0.05000	0.0226	
	7 beta-BHC	4.091	4.091	0.000	480	0.05000	0.0221	
	8 delta-BHC	4.298	4.298	0.000	1151	0.05000	0.0237	
	9 Heptachlor	4.543	4.543	0.000	997	0.05000	0.0239	
	10 Aldrin	4.896	4.896	0.000	975	0.05000	0.0222	
	13 Heptachlor Epoxide	5.611	5.611	0.000	880	0.05000	0.0220	
	15 gamma-Chlordane	5.760	5.760	0.000	864	0.05000	0.0214	
	17 alpha-Chlordane	5.921	5.921	0.000	869	0.05000	0.0214	
	19 4,4'-DDE	6.006	6.006	0.000	892	0.05000	0.0217	
	20 Endosulfan I	6.091	6.091	0.000	784	0.05000	0.0219	
	21 Dieldrin	6.383	6.383	0.000	863	0.05000	0.0219	
	23 Endrin	6.668	6.668	0.000	695	0.05000	0.0189	
	24 4,4'-DDD	6.741	6.741	0.000	731	0.05000	0.0222	
	26 Endosulfan II	6.945	6.945	0.000	729	0.05000	0.0217	
	27 4,4'-DDT	7.088	7.088	0.000	613	0.05000	0.0174	
	28 Endrin Aldehyde	7.465	7.465	0.000	540	0.05000	0.0225	
	29 Methoxychlor	7.691	7.691	0.000	328	0.05000	0.0180	
	32 Endosulfan sulfate	8.010	8.010	0.000	602	0.05000	0.0272	
	33 Endrin Ketone	8.365	8.365	0.000	818	0.05000	0.0272	
$	34 Decachlorobiphenyl	9.638	9.638	0.000	624	0.05000	0.0214	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00051.D
Date : 06-OCT-2023 20:25
Client ID:
Instrument: gc01.i
Sample Info: WG343657-5
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 393 of 681

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343657-5
Analytical Date: 10/06/23 20:25
Lab File ID: 1QJ00051.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: B

Compound	$\overline{RRF}$/Amount	RF0.025	CCAL RRF0.025	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
gamma-BHC	357523	314760	314760	0.001	-11.96083	20.000	Averaged	
Heptachlor	272287	267400	267400	0.001	-1.79468	20.000	Averaged	
Heptachlor Epoxide	268124	232800	232800	0.001	-13.17450	20.000	Averaged	
4,4'-DDE	273505	227840	227840	0.001	-16.69622	20.000	Averaged	
Endrin	232453	172160	172160	0.001	-25.93782	20.000	Averaged	*
4,4'-DDD	219364	192880	192880	0.001	-12.07295	20.000	Averaged	
4,4'-DDT	226090	163280	163280	0.001	-27.78097	20.000	Averaged	*
Endrin Aldehyde	147961	129280	129280	0.001	-12.62543	20.000	Averaged	
Methoxychlor	112050	78480	78480	0.001	-29.95963	20.000	Averaged	*
Endrin Ketone	179781	190120	190120	0.001	5.75089	20.000	Averaged	
Tetrachloro-m-Xylene	247878	218120	218120	0.001	-12.00498	20.000	Averaged	
Decachlorobiphenyl	138186	118400	118400	0.001	-14.31859	20.000	Averaged	

*** = Compound out of QC criteria**

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Data File: 1QJ00051.D
Report Date: 01-Nov-2023 10:47

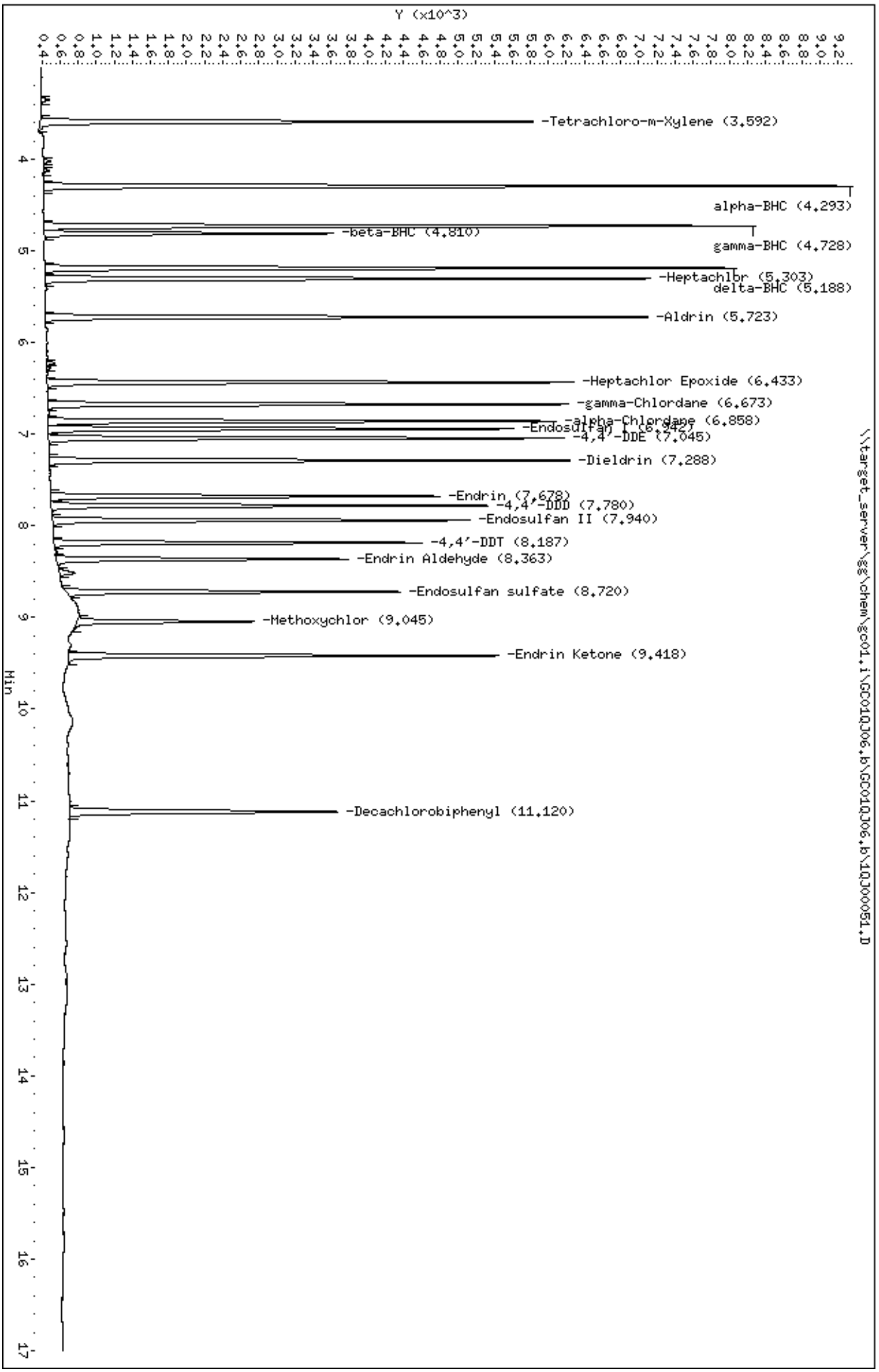
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00051.D
Lab Smp Id: INDAB 0.025
Inj Date : 06-OCT-2023 20:25
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-5
Misc Info : WG343657,WG343657,WG342485-2,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29   Cal File: 1QI00079.D
Als bottle: 16   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$ 4	Tetrachloro-m-Xylene	3.591	3.591	0.000	5453	0.05000	0.0220	
5	alpha-BHC	4.293	4.293	0.000	8951	0.05000	0.0224	
6	gamma-BHC	4.728	4.728	0.000	7869	0.05000	0.0220	
7	beta-BHC	4.809	4.809	0.000	3201	0.05000	0.0211	
8	delta-BHC	5.188	5.188	0.000	7650	0.05000	0.0229	
9	Heptachlor	5.303	5.303	0.000	6685	0.05000	0.0246	
10	Aldrin	5.723	5.723	0.000	6662	0.05000	0.0218	
13	Heptachlor Epoxide	6.433	6.433	0.000	5820	0.05000	0.0217	
15	gamma-Chlordane	6.673	6.673	0.000	5761	0.05000	0.0210	
17	alpha-Chlordane	6.858	6.858	0.000	5617	0.05000	0.0213	
19	4,4'-DDE	7.044	7.044	0.000	5696	0.05000	0.0208	
20	Endosulfan I	6.941	6.941	0.000	5144	0.05000	0.0216	
21	Dieldrin	7.288	7.288	0.000	5754	0.05000	0.0215	
23	Endrin	7.678	7.678	0.000	4304	0.05000	0.0185	
24	4,4'-DDD	7.779	7.779	0.000	4822	0.05000	0.0220	
26	Endosulfan II	7.939	7.939	0.000	4612	0.05000	0.0214	
27	4,4'-DDT	8.186	8.186	0.000	4082	0.05000	0.0180	
28	Endrin Aldehyde	8.363	8.363	0.000	3232	0.05000	0.0218	
29	Methoxychlor	9.044	9.044	0.000	1962	0.05000	0.0175	
32	Endosulfan sulfate	8.719	8.719	0.000	3692	0.05000	0.0264	
33	Endrin Ketone	9.418	9.418	0.000	4753	0.05000	0.0264	
$ 34	Decachlorobiphenyl	11.119	11.119	0.000	2960	0.05000	0.0214	


Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00051.D
Date : 06-OCT-2023 20:25
Client ID:
Sample Info: WG343657-5
Purge Volume: 1.0
Column phase: ZB-Multiresidue-2
Instrument: gc01.i
Operator: AD
Column diameter: 0.53
\\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00051.D
Y (x10^3)
Min
-Tetrachloro-m-Xylene (3.592)
alpha-BHC (4.293)
-beta-BHC (4.810)
gamma-BHC (4.728)
-Heptachlor (5.303)
delta-BHC (5.188)
-Aldrin (5.723)
-Heptachlor Epoxide (6.433)
-gamma-Chlordane (6.673)
-alpha-Chlordane (6.858)
-Endosulfan I (6.942)
-4,4'-DDE (7.045)
-Dieldrin (7.288)
-Endrin (7.678)
-4,4'-DDD (7.780)
-Endosulfan II (7.940)
-4,4'-DDT (8.187)
-Endrin Aldehyde (8.363)
-Endosulfan sulfate (8.720)
-Methoxychlor (9.045)
-Endrin Ketone (9.418)
-Decachlorobiphenyl (11.120)

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343657-6
Analytical Date: 10/06/23 20:44
Lab File ID: 1QJ00052.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: A

Compound	RRF/Amount	RF0.025	CCAL RRF0.025	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Toxaphene(1)	223	180	180	0.001	-19.34882	20.000	Averaged	
Toxaphene(2)	376	264	264	0.001	-29.82456	20.000	Averaged	*
Toxaphene(3)	382	344	344	0.001	-9.87687	20.000	Averaged	
Toxaphene(4)	586	500	500	0.001	-14.71943	20.000	Averaged	
Toxaphene(5)	709	578	578	0.001	-18.43455	20.000	Averaged	
Toxaphene(6)	725	576	576	0.001	-20.58641	20.000	Averaged	*
Toxaphene(7)	889	736	736	0.001	-17.19172	20.000	Averaged	
Toxaphene(8)	653	506	506	0.001	-22.49764	20.000	Averaged	*
Toxaphene(9)	652	490	490	0.001	-24.88503	20.000	Averaged	*

*** = Compound out of QC criteria**

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Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00052.D
Report Date: 01-Nov-2023 10:46

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00052.D
Lab Smp Id: TOX 0.5
Inj Date : 06-OCT-2023 20:44
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-6
Misc Info : WG343657,WG343657,WG342486,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 17   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

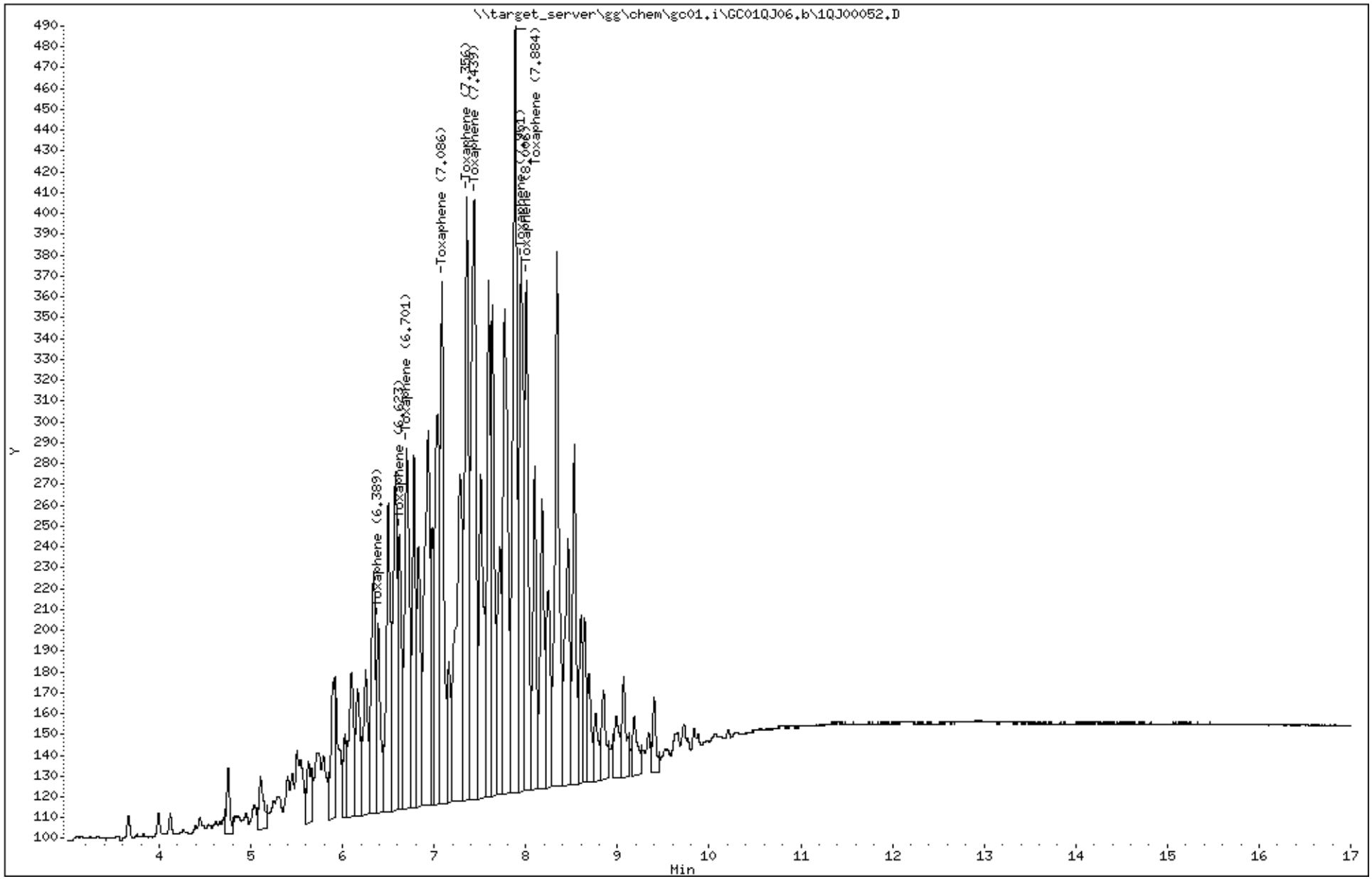
AD
12:33 pm, Nov 01, 2023

			AMOUNTS						
				CAL-AMT	ON-COL				
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO		REVIEW CODE
18 Toxaphene						CAS #: 8001-35-2			
6.387	6.387	0.000	90	1.00000	0.403	80.00- 120.00	100.00(M)		M5
6.619	6.619	0.000	132	1.00000	0.351	117.33- 176.00	146.67		M5
6.699	6.699	0.000	172	1.00000	0.451	152.89- 229.33	191.11		M5
7.085	7.085	0.000	250	1.00000	0.426	222.22- 333.33	277.78		M5
7.355	7.355	0.000	289	1.00000	0.408	256.89- 385.33	321.11		M5
7.437	7.437	0.000	288	1.00000	0.397	256.00- 384.00	320.00		M5
7.884	7.884	0.000	368	1.00000	0.414	327.11- 490.67	408.89		M5
7.947	7.947	0.000	253	1.00000	0.388	224.89- 337.33	281.11		M5
8.005	8.005	0.000	245	1.00000	0.376	217.78- 326.67	272.22		M5
Average of Peak Amounts =					0.40156				

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00052.D
Date : 06-OCT-2023 20:44
Client ID:
Instrument: gc01.i
Sample Info: WG343657-6
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 399 of 681

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343657-6
Analytical Date: 10/06/23 20:44
Lab File ID: 1QJ00052.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: B

Compound	RRF/Amount	RF0.025	CCAL RRF0.025	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Toxaphene(1)	2226	2084	2084	0.001	-6.38546	20.000	Averaged	
Toxaphene(2)	1873	1778	1778	0.001	-5.07546	20.000	Averaged	
Toxaphene(3)	2488	2040	2040	0.001	-17.99325	20.000	Averaged	
Toxaphene(4)	2612	2250	2250	0.001	-13.87230	20.000	Averaged	
Toxaphene(5)	2742	2302	2302	0.001	-16.06097	20.000	Averaged	
Toxaphene(6)	4785	4104	4104	0.001	-14.23197	20.000	Averaged	
Toxaphene(7)	5460	4510	4510	0.001	-17.39448	20.000	Averaged	
Toxaphene(8)	3457	2770	2770	0.001	-19.88354	20.000	Averaged	
Toxaphene(9)	3264	2660	2660	0.001	-18.50116	20.000	Averaged	

*** = Compound out of QC criteria**

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Data File: 1QJ00052.D
Report Date: 01-Nov-2023 10:47

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00052.D
Lab Smp Id: TOX 0.5
Inj Date : 06-OCT-2023 20:44
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-6
Misc Info : WG343657,WG343657,WG342486,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29   Cal File: 1QI00079.D
Als bottle: 17   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

AD

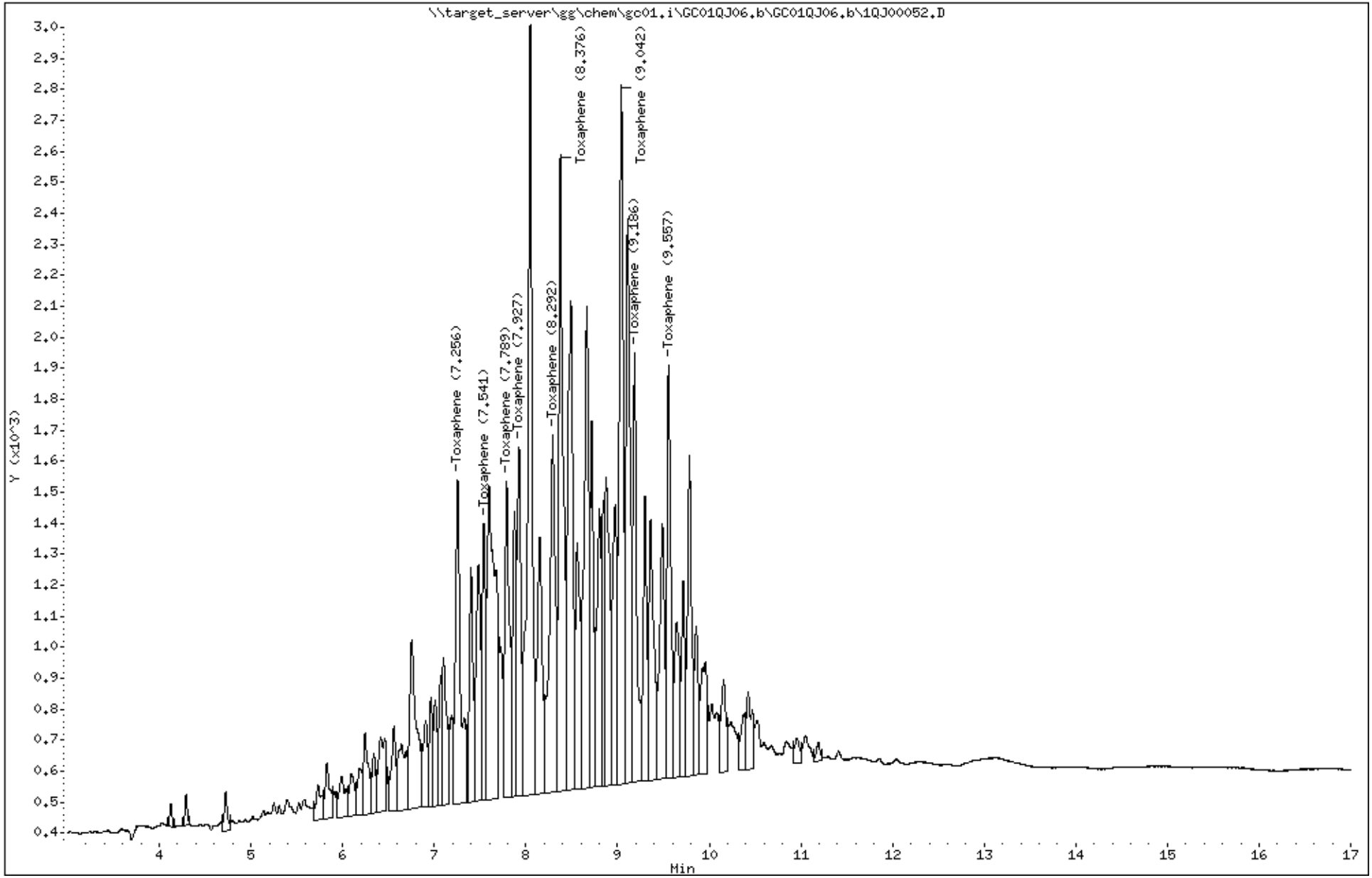
12:33 pm, Nov 01, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
7.255	7.255	0.000	1042	1.00000	0.468	80.00- 120.00	100.00(M)	M5
7.539	7.539	0.000	889	1.00000	0.475	68.25- 102.38	85.32	M5
7.789	7.789	0.000	1020	1.00000	0.410	78.31- 117.47	97.89	M5
7.927	7.927	0.000	1125	1.00000	0.431	86.37- 129.56	107.97	M5
8.292	8.292	0.000	1151	1.00000	0.420	88.37- 132.55	110.46	M5
8.375	8.375	0.000	2052	1.00000	0.429	157.54- 236.31	196.93	M5
9.042	9.042	0.000	2255	1.00000	0.413	173.13- 259.69	216.41	M5
9.185	9.185	0.000	1385	1.00000	0.400	106.33- 159.50	132.92	M5
9.557	9.557	0.000	1330	1.00000	0.407	102.11- 153.17	127.64	M5
		Average of Peak Amounts =			0.42811			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00052.D
Date : 06-OCT-2023 20:44
Client ID:
Instrument: gc01.i
Sample Info: WG343657-6
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 402 of 681

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343657-7
Analytical Date: 10/06/23 21:04
Lab File ID: 1QJ00053.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: A

Compound	RRF/Amount	RF0.025	CCAL RRF0.025	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Technical Chlordane(1)	4276	3692	3692	0.001	-13.64887	20.000	Averaged	
Technical Chlordane(2)	5359	4684	4684	0.001	-12.58802	20.000	Averaged	
Technical Chlordane(3)	1303	1052	1052	0.001	-19.27356	20.000	Averaged	

*** = Compound out of QC criteria**

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Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00053.D
Report Date: 01-Nov-2023 10:46

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00053.D
Lab Smp Id: TC 0.25
Inj Date : 06-OCT-2023 21:04
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-7
Misc Info : WG343657,WG343657,WG342487,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 18   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

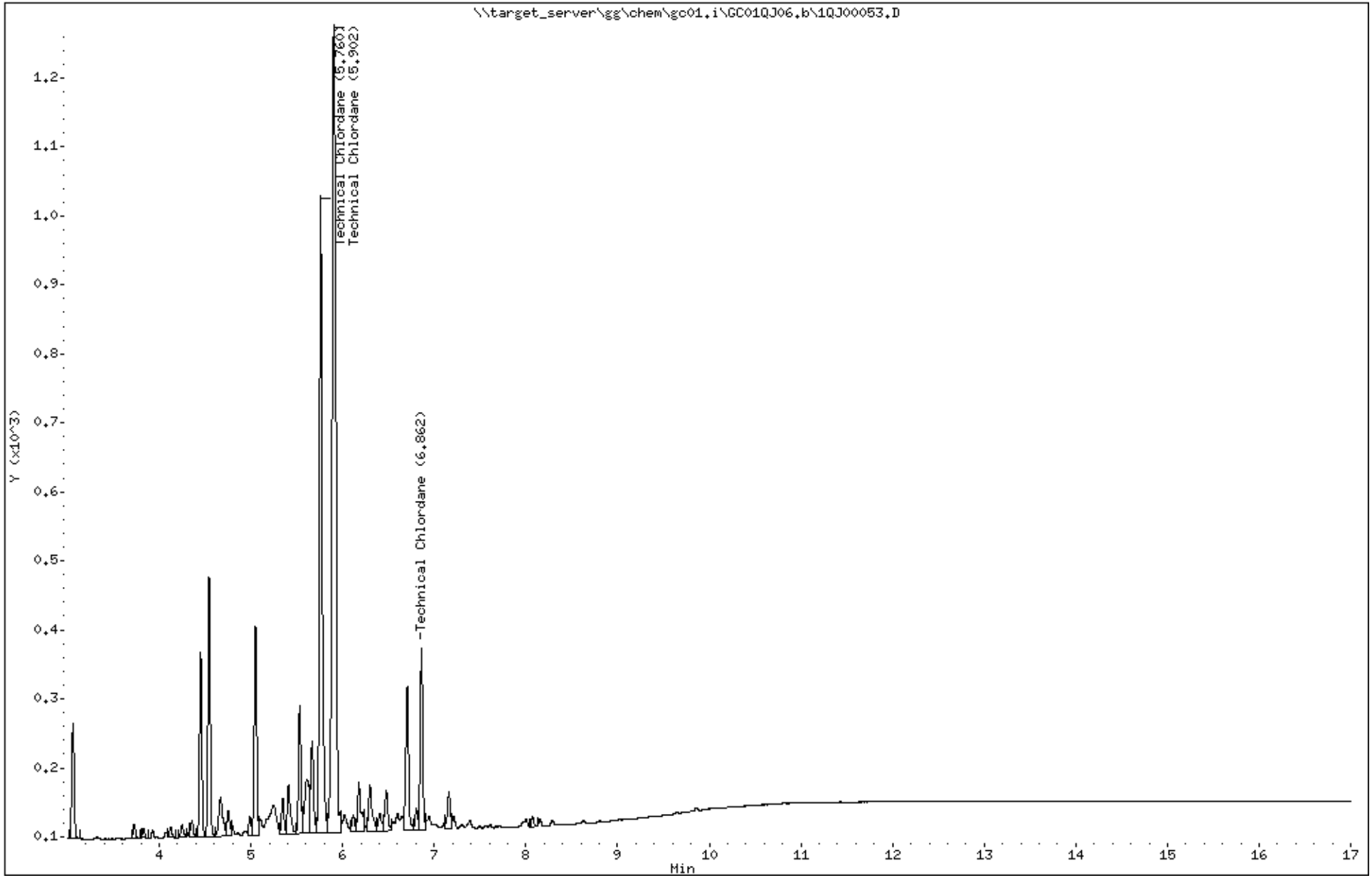
AD
12:33 pm, Nov 01, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
5.760	5.760	0.000	923	0.50000	0.216	80.00- 120.00	100.00(M)	M5
5.901	5.901	0.000	1171	0.50000	0.218	101.50- 152.24	126.87	M5
6.860	6.860	0.000	263	0.50000	0.202	22.80- 34.19	28.49	M5
		Average of Peak Amounts =			0.21200			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00053.D
Date : 06-OCT-2023 21:04
Client ID:
Instrument: gc01.i
Sample Info: WG343657-7
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 405 of 681

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343657-7
Analytical Date: 10/06/23 21:04
Lab File ID: 1QJ00053.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: B

Compound	RRF/Amount	RF0.025	CCAL RRF0.025	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Technical Chlordane(1)	30196	26776	26776	0.001	-11.32728	20.000	Averaged	
Technical Chlordane(2)	29974	25864	25864	0.001	-13.71265	20.000	Averaged	
Technical Chlordane(3)	8049	6496	6496	0.001	-19.29165	20.000	Averaged	

*** = Compound out of QC criteria**

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Data File: 1QJ00053.D
Report Date: 01-Nov-2023 10:47

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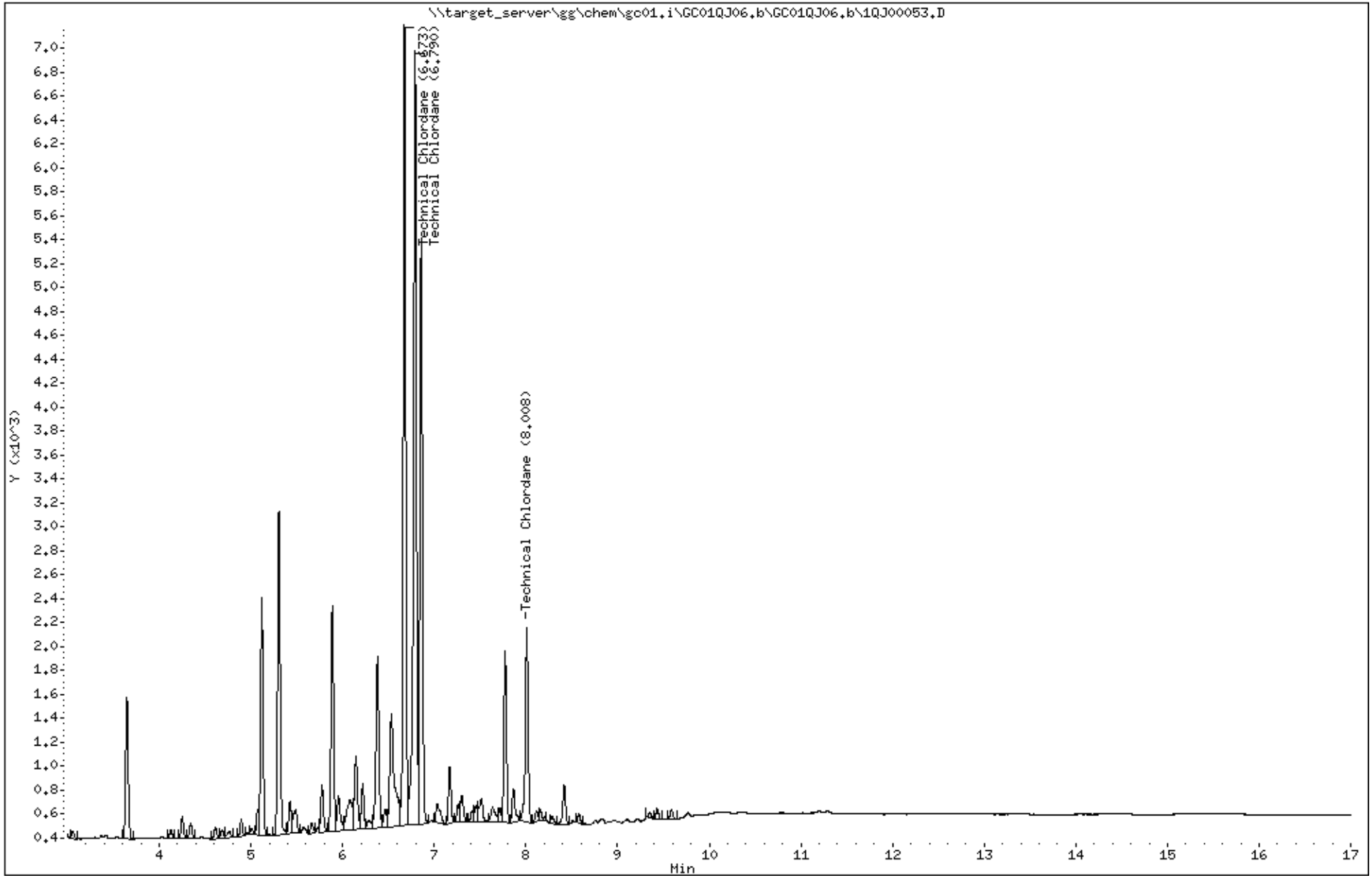
Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00053.D
Lab Smp Id: TC 0.25
Inj Date : 06-OCT-2023 21:04
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-7
Misc Info : WG343657,WG343657,WG342487,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29   Cal File: 1QI00079.D
Als bottle: 18   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

			AMOUNTS					
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
6.673	6.673	0.000	6694	0.50000	0.222	80.00- 120.00	100.00	
6.790	6.790	0.000	6466	0.50000	0.216	77.28- 115.91	96.59	
8.008	8.008	0.000	1624	0.50000	0.202	19.41- 29.11	24.26	
Average of Peak Amounts =					0.21333			

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00053.D
Date : 06-OCT-2023 21:04
Client ID:
Instrument: gc01.i
Sample Info: WG343657-7
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 408 of 681

Katahdin
ANALYTICAL SERVICES

Form 7D

Pesticide Breakdown Verification Summary

Lab ID: WG342485-1
Client ID: Breakdown Evaluation
Init. Calib. Date(s): 11-SEP-23 -12-SEP-23
Lab File ID: 1QI00048.D

Analysis Date: 11-SEP-23
Report Date: 01-NOV-23
SDG: SQ5109
Column ID: A

Lab Sample ID	Filename	% DDT Breakdown	% Endrin Breakdown
WG342485-1	1QI00048.D	.812	1.58

QC Limits:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00048.D
Report Date: 20-Sep-2023 12:02

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Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00048.D
Lab Smp Id: EVAL
Inj Date : 11-SEP-2023 20:29
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-1
Misc Info : WG342485,WG342485,WG342485-2,SQ4875-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 20:49   Cal File: 1QI00049.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: eval.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable



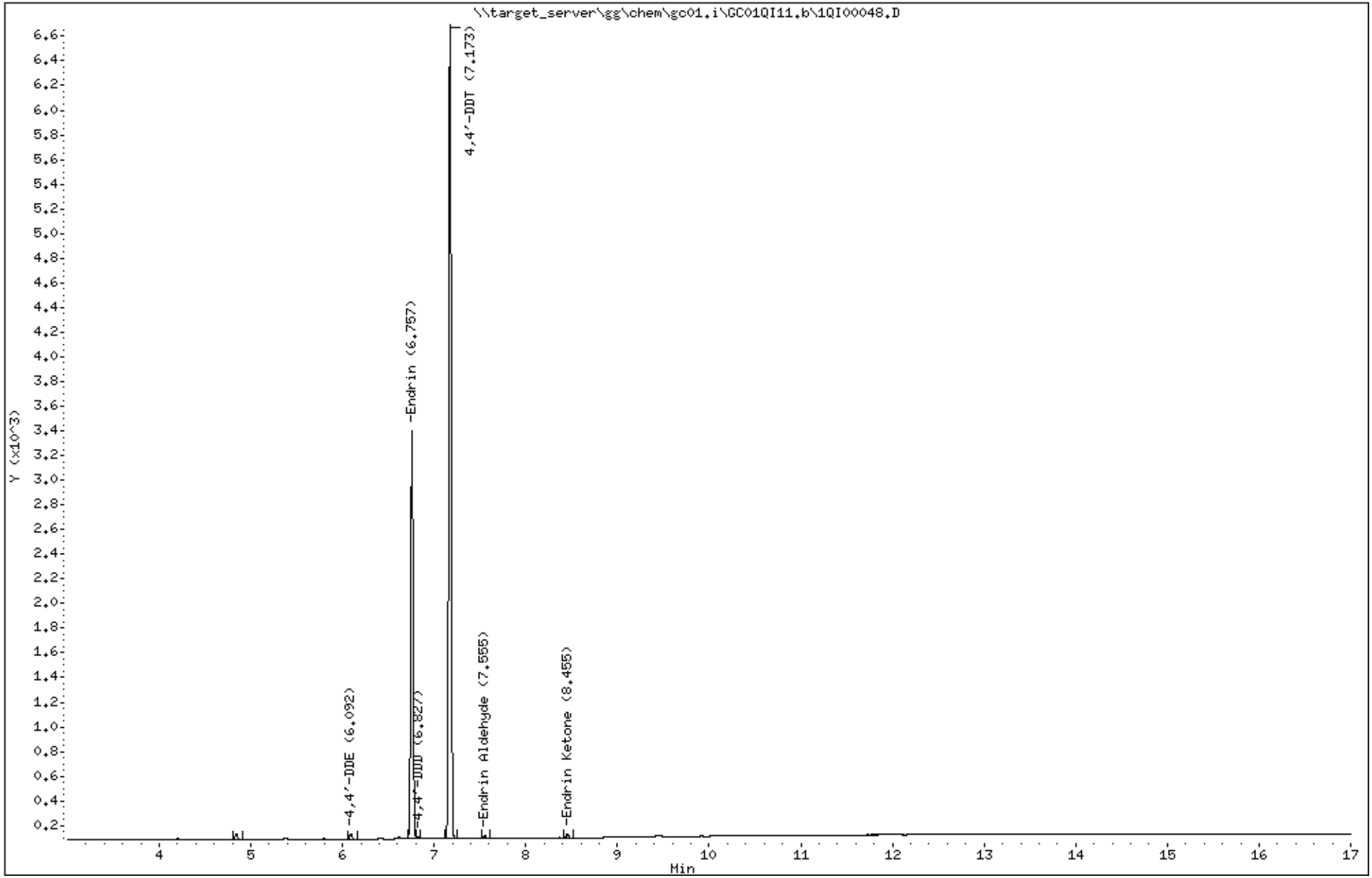
12:33 pm, Nov 01, 2023

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
19 4,4'-DDE	6.091	6.089	0.002	42	0.00108	0.0108	
23 Endrin	6.756	6.757	-0.001	3306	0.09473	0.947	
24 4,4'-DDD	6.826	6.826	0.000	12	4e-004	0.00387(M)	M6
27 4,4'-DDT	7.173	7.172	0.001	6598	0.19885	1.99	
28 Endrin Aldehyde	7.554	7.551	0.003	21	1e-003	0.00957	
33 Endrin Ketone	8.454	8.452	0.002	32	0.00117	0.0117	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00048.D
Date : 11-SEP-2023 20:29
Client ID:
Instrument: gc01.i
Sample Info: WG342485-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Katahdin
ANALYTICAL SERVICES

Form 7D

Pesticide Breakdown Verification Summary

Lab ID: WG342485-1
Client ID: Breakdown Evaluation
Init. Calib. Date(s): 11-SEP-23 -12-SEP-23
Lab File ID: 1QI00048.D

Analysis Date: 11-SEP-23
Report Date: 01-NOV-23
SDG: SQ5109
Column ID: B

Lab Sample ID	Filename	% DDT Breakdown	% Endrin Breakdown
WG342485-1	1QI00048.D	1.24	1.73

QC Limits:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

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Data File: 1QI00048.D
Report Date: 20-Sep-2023 12:03

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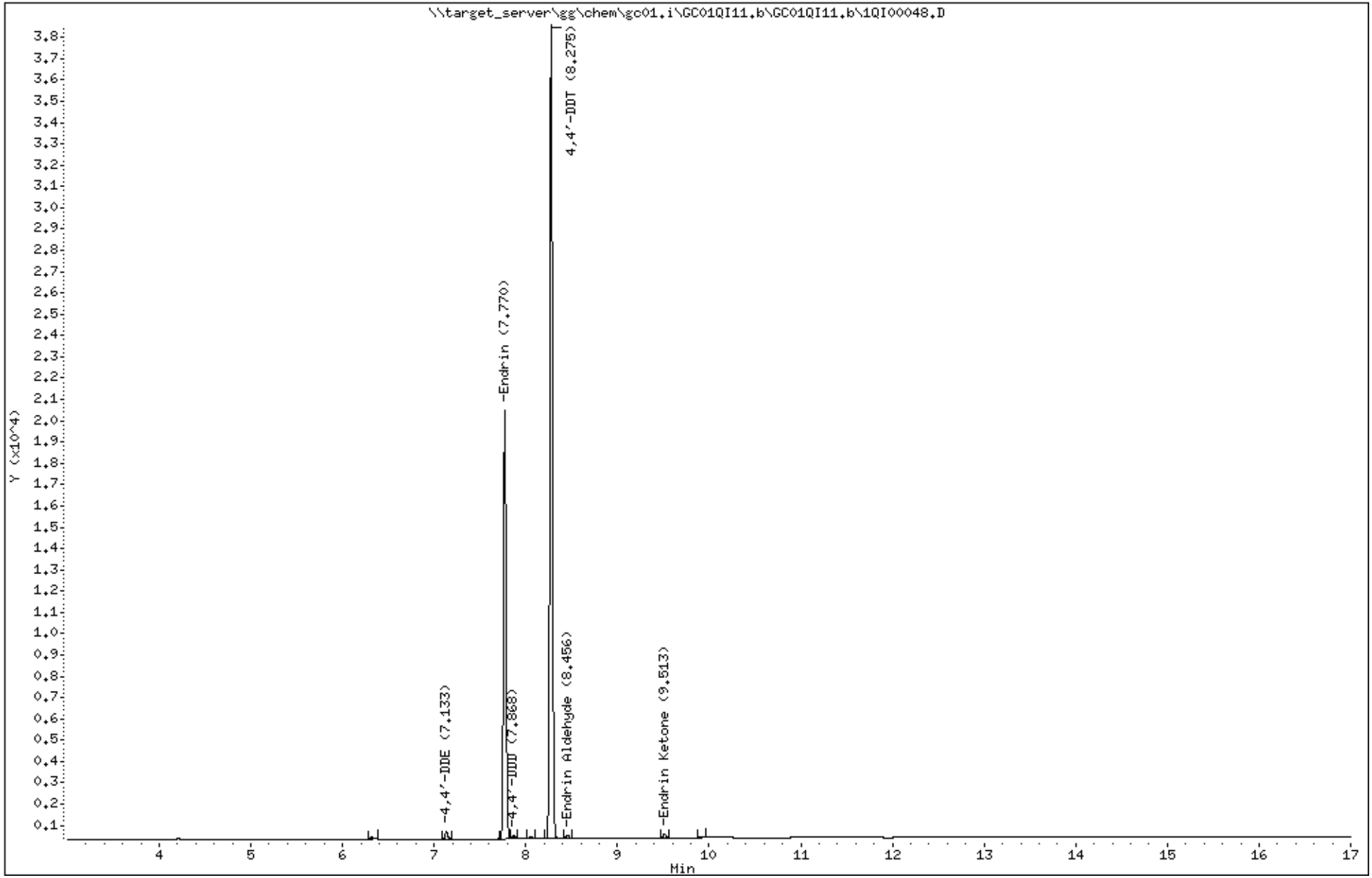
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00048.D
Lab Smp Id: EVAL
Inj Date : 11-SEP-2023 20:29
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-1
Misc Info : WG342485,WG342485,WG342485-2,SQ4875-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 20:49   Cal File: 1QI00049.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: eval.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
19 4,4'-DDE	7.133	7.132	0.001	350	0.00136	0.0136	
23 Endrin	7.769	7.770	-0.001	20122	0.09233	0.923	
24 4,4'-DDD	7.868	7.867	0.001	131	6e-004	0.00636	
27 4,4'-DDT	8.274	8.273	0.001	38192	0.18053	1.80	
28 Endrin Aldehyde	8.456	8.455	0.001	139	0.00103	0.0103	
33 Endrin Ketone	9.513	9.512	0.001	216	0.00133	0.0133	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00048.D
Date : 11-SEP-2023 20:29
Client ID:
Instrument: gc01.i
Sample Info: WG342485-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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ANALYTICAL SERVICES

Form 7D

Pesticide Breakdown Verification Summary

Lab ID: WG343657-1
Client ID: Breakdown Evaluation
Init. Calib. Date(s): 11-SEP-23 -12-SEP-23
Lab File ID: 1QJ00033.D

Analysis Date: 06-OCT-23
Report Date: 01-NOV-23
SDG: SQ5109
Column ID: A

Lab Sample ID	Filename	% DDT Breakdown	% Endrin Breakdown
WG343657-1	1QJ00033.D	1.4	6.25

QC Limits:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

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Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00033.D
Report Date: 01-Nov-2023 10:49

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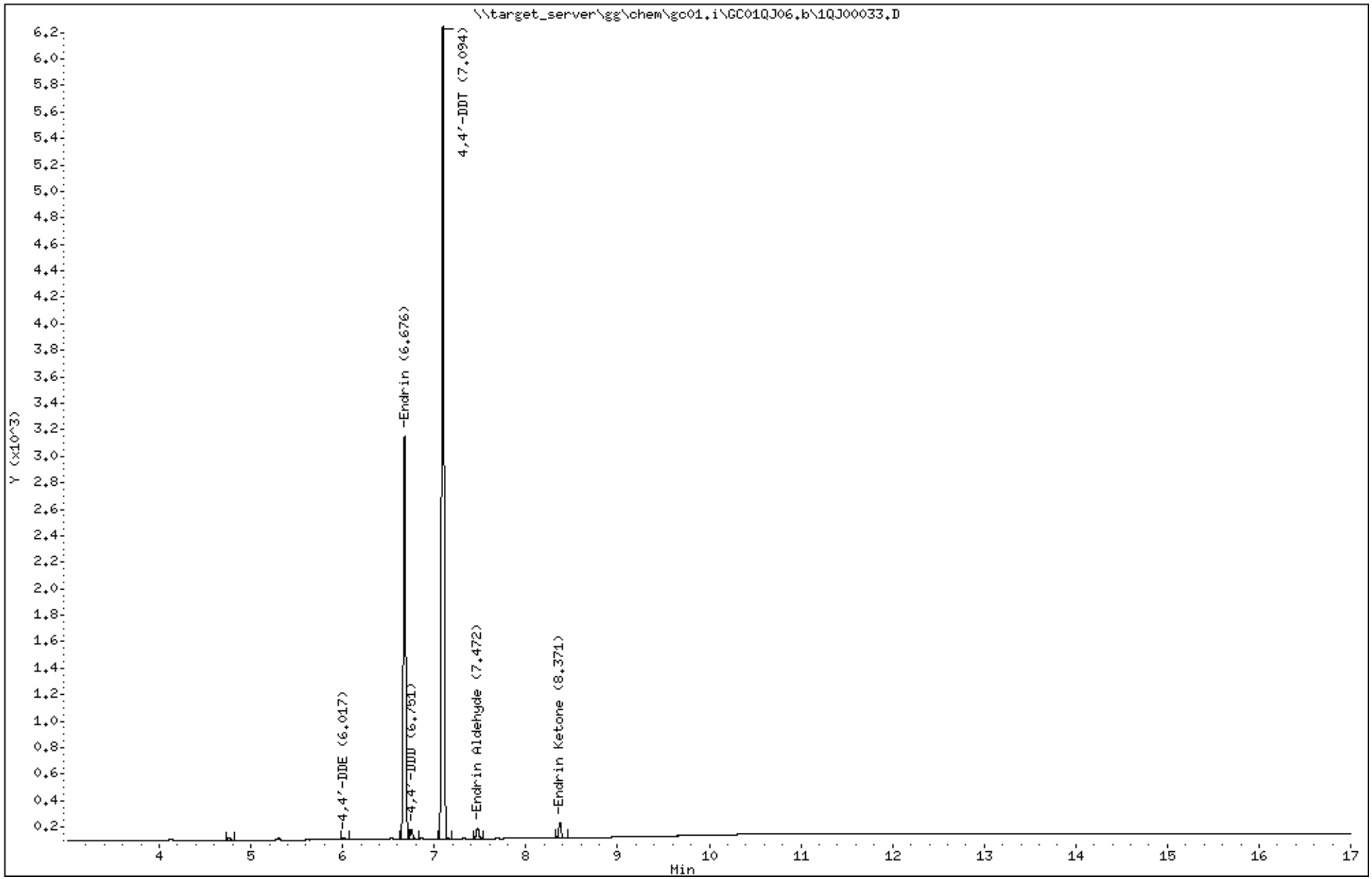
Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00033.D
Lab Smp Id: EVAL
Inj Date : 06-OCT-2023 12:12
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-1
Misc Info : WG343657,WG343657,WG342485-2,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: eval.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
19 4,4'-DDE	6.017	6.006	0.011	13	3e-004	0.00316	
23 Endrin	6.675	6.668	0.007	3044	0.08285	0.828	
24 4,4'-DDD	6.750	6.741	0.009	74	0.00225	0.0225	
27 4,4'-DDT	7.094	7.088	0.006	6137	0.17445	1.74	
28 Endrin Aldehyde	7.472	7.465	0.007	83	0.00346	0.0346	
33 Endrin Ketone	8.370	8.365	0.005	120	0.00398	0.0398	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00033.D
Date : 06-OCT-2023 12:12
Client ID:
Instrument: gc01.i
Sample Info: WG343657-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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ANALYTICAL SERVICES

Form 7D

Pesticide Breakdown Verification Summary

Lab ID: WG343657-1
Client ID: Breakdown Evaluation
Init. Calib. Date(s): 11-SEP-23 -12-SEP-23
Lab File ID: 1QJ00033.D

Analysis Date: 06-OCT-23
Report Date: 01-NOV-23
SDG: SQ5109
Column ID: B

Lab Sample ID	Filename	% DDT Breakdown	% Endrin Breakdown
WG343657-1	1QJ00033.D	1.84	6.39

QC Limits:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

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Data File: 1QJ00033.D
Report Date: 01-Nov-2023 10:49

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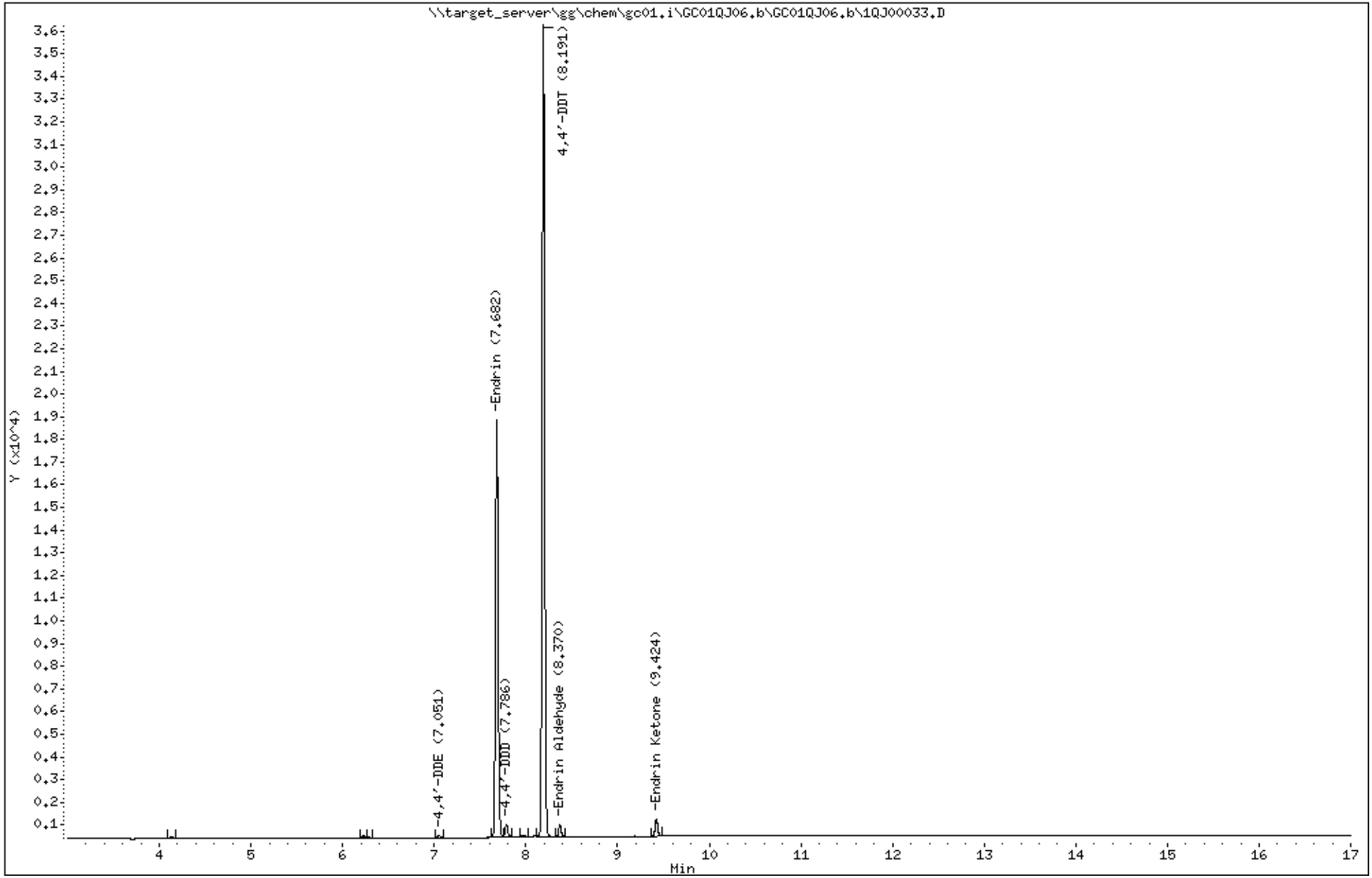
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Lab Smp Id: EVAL
Inj Date : 06-OCT-2023 12:12
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-1
Misc Info : WG343657,WG343657,WG342485-2,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29   Cal File: 1QI00079.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: eval.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
19 4,4'-DDE	7.050	7.044	0.006	113	4e-004	0.00413	
23 Endrin	7.682	7.678	0.004	18412	0.07921	0.792	
24 4,4'-DDD	7.785	7.779	0.006	556	0.00253	0.0253	
27 4,4'-DDT	8.190	8.186	0.004	35766	0.15819	1.58	
28 Endrin Aldehyde	8.370	8.363	0.007	507	0.00343	0.0343	
33 Endrin Ketone	9.423	9.418	0.005	750	0.00417	0.0417	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00033.D
Date : 06-OCT-2023 12:12
Client ID:
Instrument: gc01.i
Sample Info: WG343657-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 420 of 681

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5109
Lab ID: WG343221-6
Client ID: TCLP Blank
Matrix: AQ
Lab File ID: 1QJ00018.D

Sample Date: N/A
Extract Date: 28-SEP-23
Extracted By: AD
Extraction Method: 3510C/1311
Lab Prep Batch: WG343221

Report Date: 01-NOV-23
Analysis Date: 02-OCT-23
Analyst: AD
Analysis Method: SW846 8081B
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
gamma-BHC	U	0.12	ug/L	1	.05	0.25	0.060	0.12
Heptachlor	U	0.12	ug/L	1	.05	0.25	0.060	0.12
Heptachlor Epoxide	U	0.12	ug/L	1	.05	0.25	0.060	0.12
Endrin	U	0.25	ug/L	1	.1	0.50	0.12	0.25
Methoxychlor	U	1.2	ug/L	1	.5	2.5	0.60	1.2
Technical Chlordane	U	1.2	ug/L	1	.5	2.5	0.60	1.2
Toxaphene	U	2.5	ug/L	1	1	5.0	1.2	2.5
Tetrachloro-M-Xylene		62.8	%					
Decachlorobiphenyl		73.4	%					

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Data File: \\target_server\gg\chem\gc01.i\GC01QJ02.b\1QJ00018.D
Report Date: 01-Nov-2023 10:39

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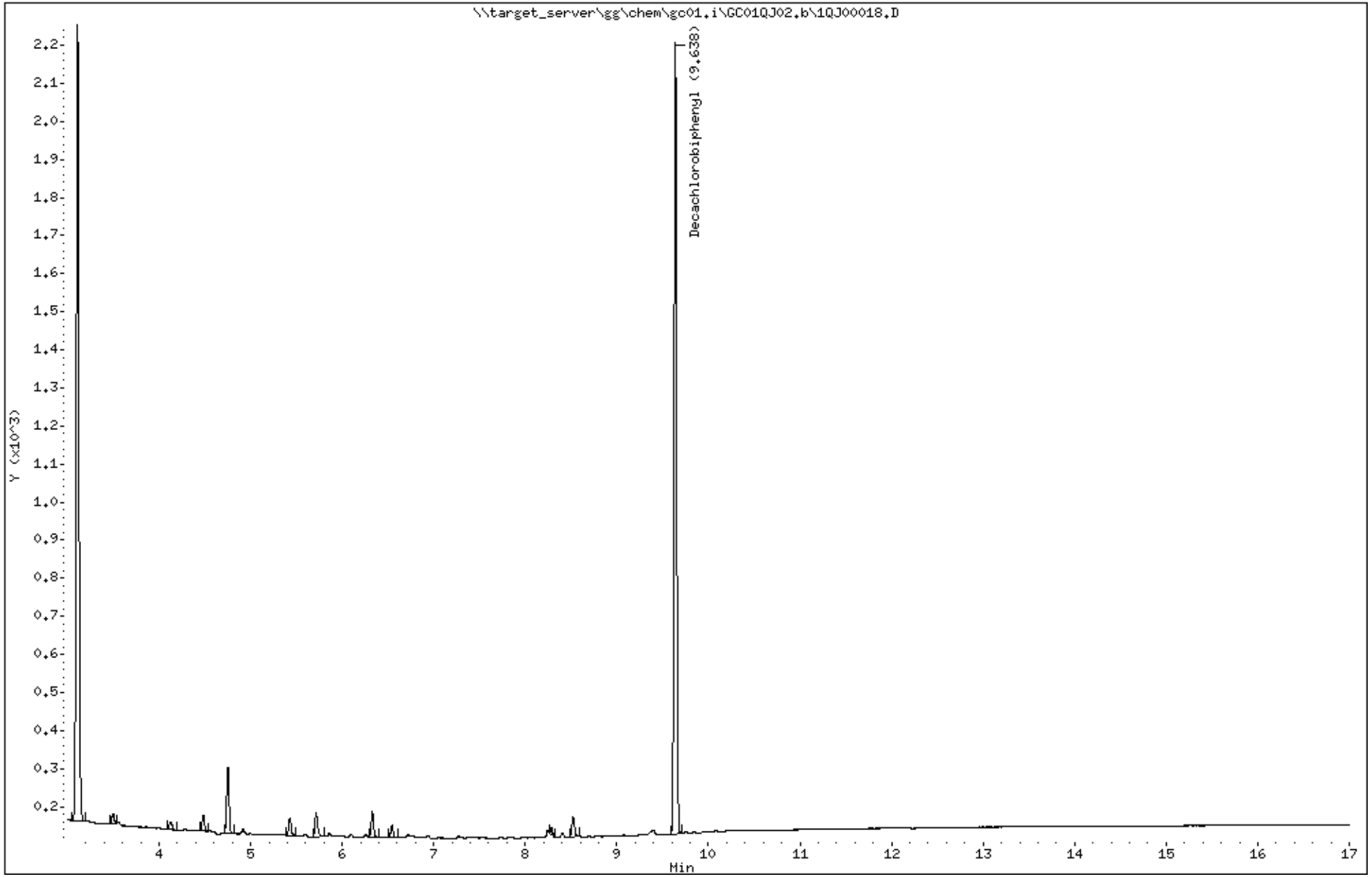
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Lab Smp Id: WG343221-6 Client Smp ID: WG343221-TclpBlank
Inj Date : 02-OCT-2023 22:46
Operator : AD Inst ID: gc01.i
Smp Info : WG343221-6
Misc Info : WG343657,WG343221,WG342485-2,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ02.b\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09 Cal File: 1QI00078.D
Als bottle: 12 QC Sample: TCLPBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_8081.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	0.20000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/L)	REVIEW CODE
$ 4 Tetrachloro-m-Xylene	3.111	3.109	0.002	2092	0.06271	3.14	
$ 34 Decachlorobiphenyl	9.637	9.637	0.000	2081	0.07132	3.57	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ02.b\1QJ00018.D
Date : 02-OCT-2023 22:46
Client ID: WG343221-TclpBlank
Instrument: gc01.i
Sample Info: WG343221-6
Purge Volume: 0.2
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 424 of 681

Data File: 1QJ00018.D
Report Date: 01-Nov-2023 10:39

Katahdin Analytical Services

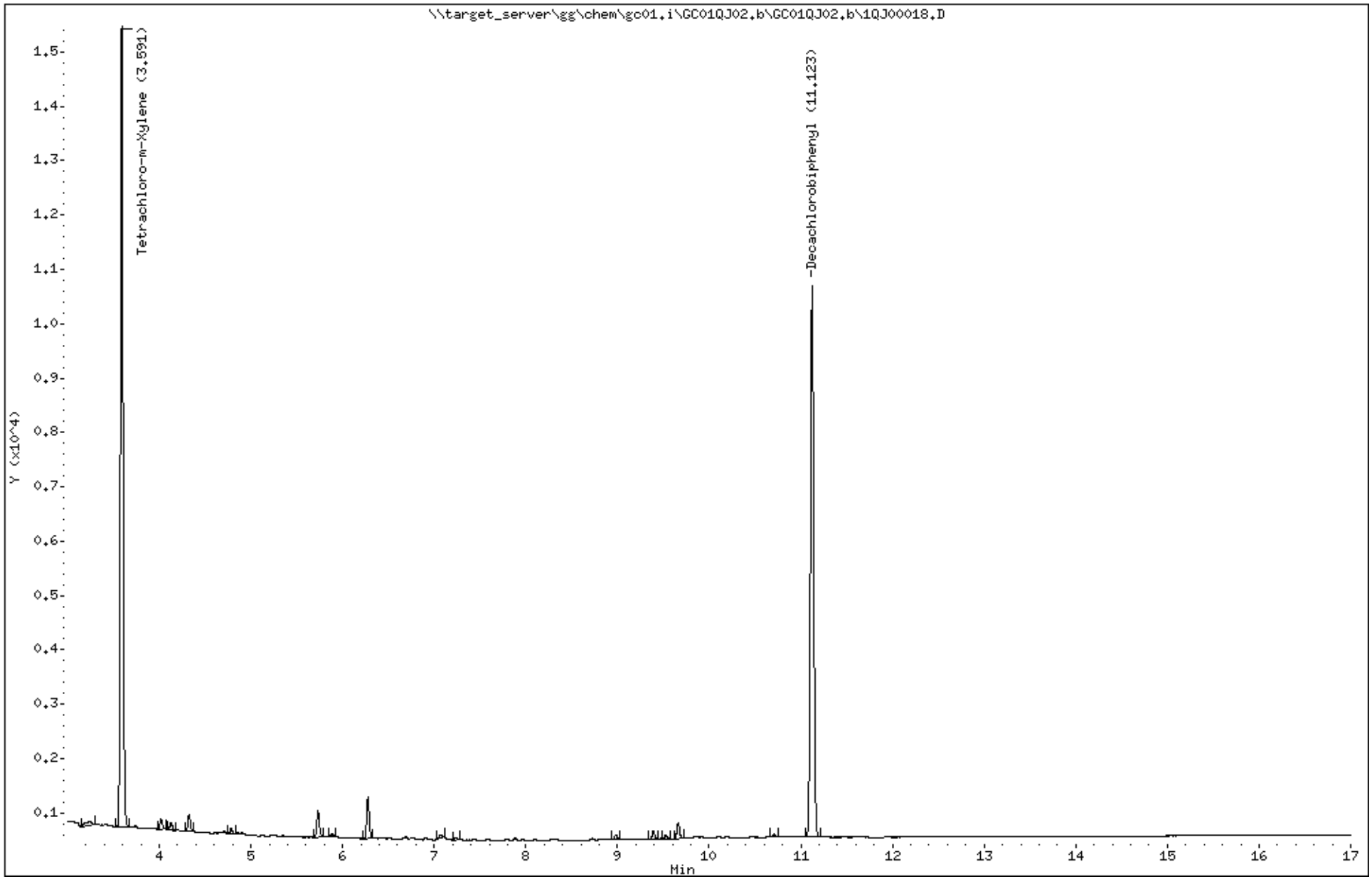
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Lab Smp Id: WG343221-6 Client Smp ID: WG343221-TclpBlank
Inj Date : 02-OCT-2023 22:46
Operator : AD Inst ID: gc01.i
Smp Info : WG343221-6
Misc Info : WG343657,WG343221,WG342485-2,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ02.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29 Cal File: 1QI00079.D
Als bottle: 12 QC Sample: TCLPBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_8081.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	0.20000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/L)	REVIEW CODE
$ 4 Tetrachloro-m-Xylene	3.590	3.589	0.001	14727	0.05941	2.97	
$ 34 Decachlorobiphenyl	11.122	11.122	0.000	10141	0.07339	3.67	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ02.b\GC01QJ02.b\1QJ00018.D
Date : 02-OCT-2023 22:46
Client ID: WG343221-TclpBlank
Instrument: gc01.i
Sample Info: WG343221-6
Purge Volume: 0.2
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5109
Lab ID: WG343476-1
Client ID: Method Blank
Matrix: AQ
Lab File ID: 1QJ00037.D

Sample Date: N/A
Extract Date: 04-OCT-23
Extracted By: AD
Extraction Method: SW846 3510C
Lab Prep Batch: WG343476

Report Date: 01-NOV-23
Analysis Date: 06-OCT-23
Analyst: AD
Analysis Method: SW846 8081B
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
gamma-BHC	U	0.025	ug/L	1	.05	0.050	0.012	0.025
Heptachlor	U	0.025	ug/L	1	.05	0.050	0.012	0.025
Heptachlor Epoxide	U	0.025	ug/L	1	.05	0.050	0.012	0.025
Endrin	U	0.050	ug/L	1	.1	0.10	0.025	0.050
Methoxychlor	U	0.25	ug/L	1	.5	0.50	0.12	0.25
Technical Chlordane	U	0.25	ug/L	1	.5	0.50	0.12	0.25
Toxaphene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Tetrachloro-M-Xylene		71.9	%					
Decachlorobiphenyl		56.6	%					

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Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00037.D
Report Date: 01-Nov-2023 10:46

Katahdin Analytical Services

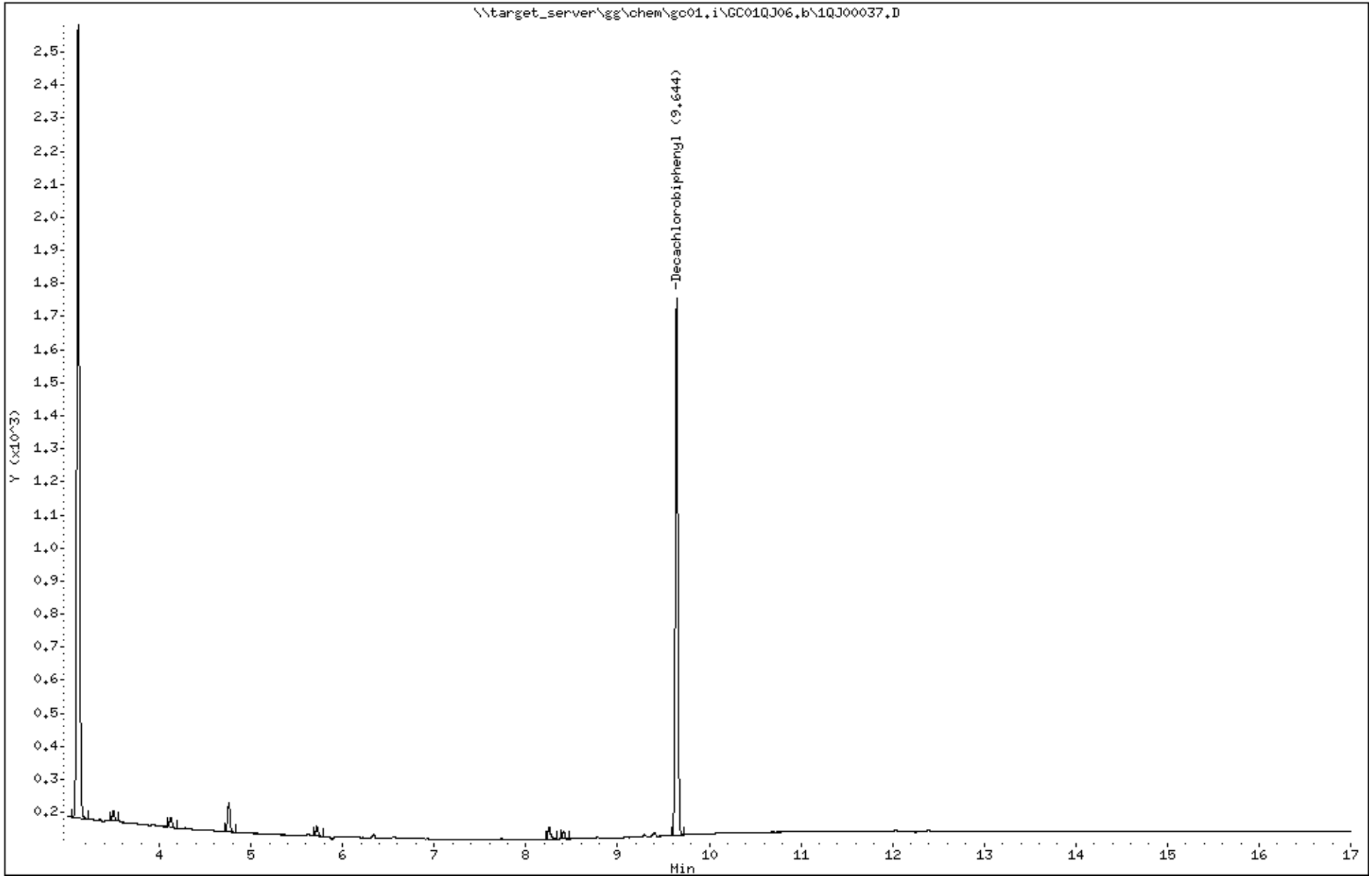
Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00037.D
Lab Smp Id: WG343476-1 Client Smp ID: WG343476-Blank
Inj Date : 06-OCT-2023 15:51
Operator : AD Inst ID: gc01.i
Smp Info : WG343476-1
Misc Info : WG343657,WG343476,WG342485-2,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09 Cal File: 1QI00078.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_8081.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/L)	REVIEW CODE
$ 4 Tetrachloro-m-Xylene	3.114	3.111	0.003	2400	0.07195	0.719	
$ 34 Decachlorobiphenyl	9.644	9.638	0.006	1625	0.05569	0.557	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00037.D
Date : 06-OCT-2023 15:51
Client ID: WG343476-Blank
Instrument: gc01.i
Sample Info: WG343476-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QJ00037.D
Report Date: 01-Nov-2023 10:46

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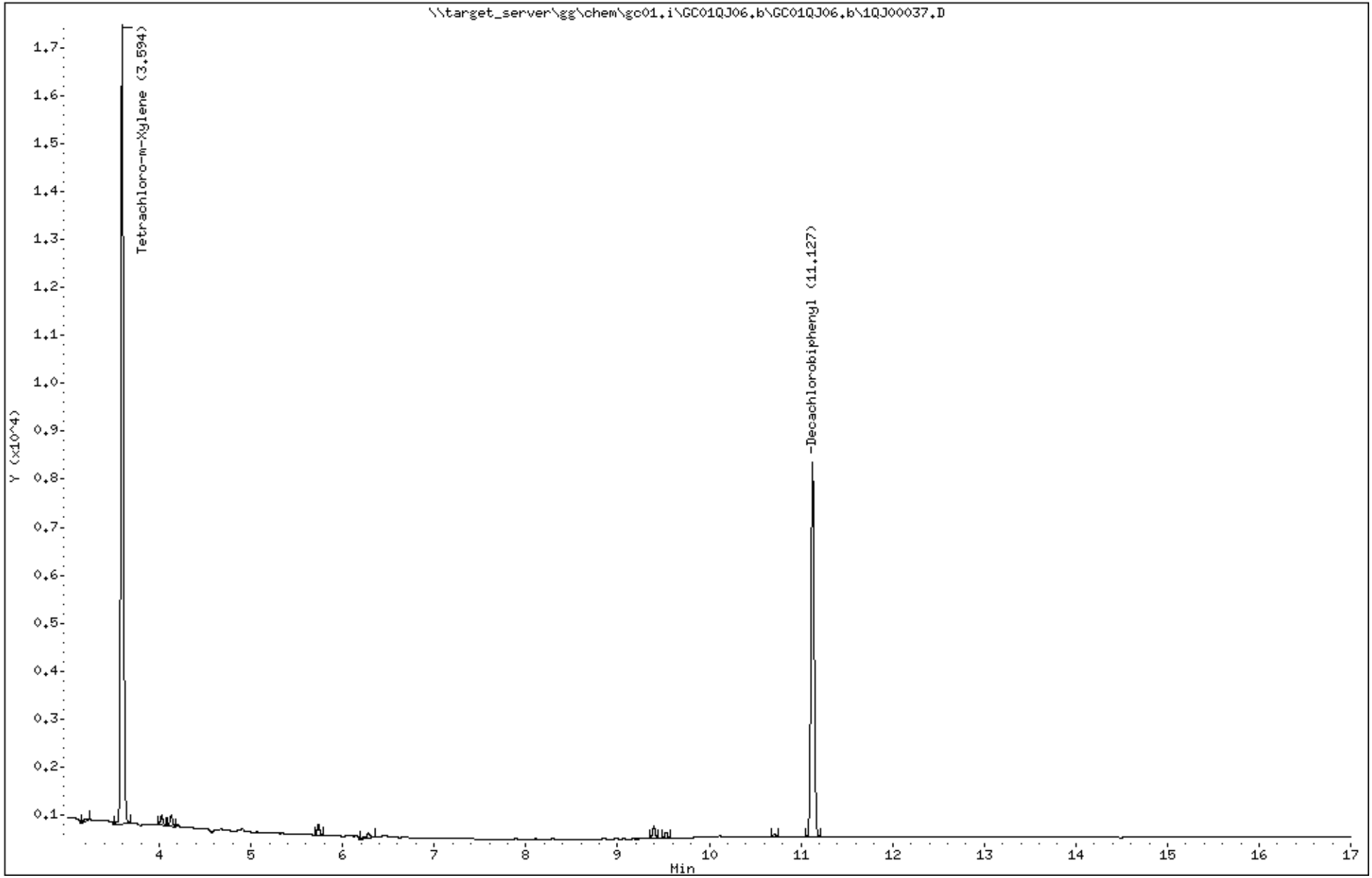
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Lab Smp Id: WG343476-1 Client Smp ID: WG343476-Blank
Inj Date : 06-OCT-2023 15:51
Operator : AD Inst ID: gc01.i
Smp Info : WG343476-1
Misc Info : WG343657,WG343476,WG342485-2,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29 Cal File: 1QI00079.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_8081.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/L)	REVIEW CODE
$ 4 Tetrachloro-m-Xylene	3.593	3.591	0.002	16683	0.06730	0.673	
$ 34 Decachlorobiphenyl	11.127	11.119	0.008	7823	0.05661	0.566	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00037.D
Date : 06-OCT-2023 15:51
Client ID: WG343476-Blank
Instrument: gc01.i
Sample Info: WG343476-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Katahdin
ANALYTICAL SERVICES

LCS/LCSD Recovery Report

LCS ID: WG343476-2
LCSD ID: WG343476-3
SDG: SQ5109
LCS File ID: 1QJ00038.D

Extract Date: 04-OCT-23
Extracted By: AD
Extraction Method: SW846 3510C
Lab Prep Batch: WG343476
LCSD File ID: 1QJ00039.D

Analysis Date: 06-OCT-23
Analyst: AD
Analysis Method: SW846 8081B
Matrix: AQ
Report Date: 01-NOV-23

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
gamma-BHC	0.500	0.382	76.4	0.412	82.4	ug/L	8	30	59-134
Heptachlor	0.500	0.385	77.0	0.409	81.8	ug/L	6	30	54-130
Heptachlor Epoxide	0.500	0.373	74.6	0.392	78.4	ug/L	5	30	61-133
Endrin	0.500	0.364	72.8	0.380	76.0	ug/L	4	30	60-138
Methoxychlor	0.500	0.337	67.4	0.352	70.4	ug/L	4	30	54-145
Tetrachloro-M-Xylene			74.2		78.7				44-124
Decachlorobiphenyl			69.6		63.0				41-131

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00038.D
Report Date: 01-Nov-2023 10:46

Katahdin Analytical Services

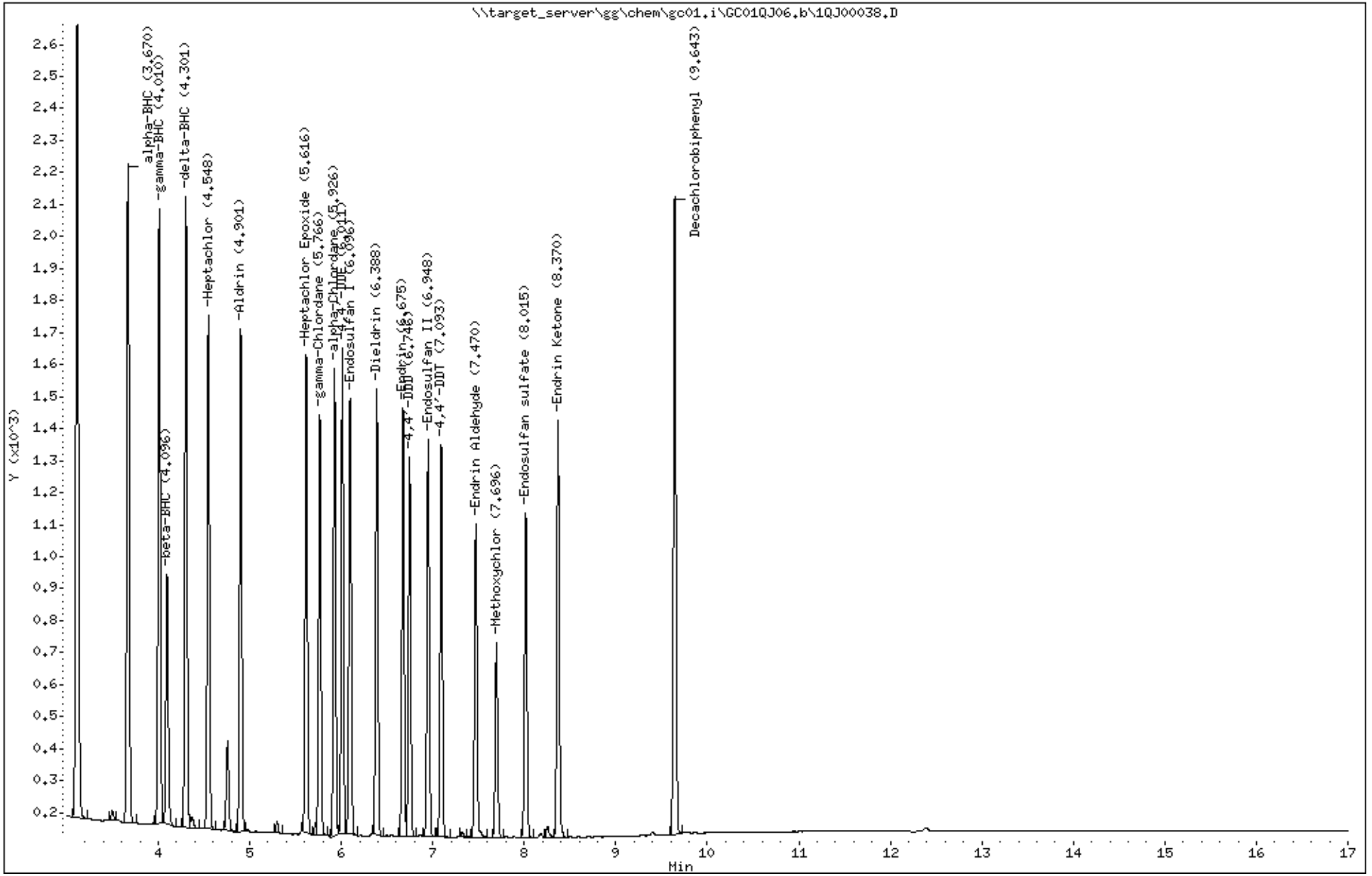
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Lab Smp Id: WG343476-2 Client Smp ID: WG343476-LCS
Inj Date : 06-OCT-2023 16:11
Operator : AD Inst ID: gc01.i
Smp Info : WG343476-2
Misc Info : WG343657,WG343476,WG342485-2,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09 Cal File: 1QI00078.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_LCS.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 4	Tetrachloro-m-Xylene	3.114	3.111	0.003	2476	0.07423	0.742	
5	alpha-BHC	3.669	3.666	0.003	2058	0.03812	0.381	
6	gamma-BHC	4.009	4.006	0.003	1920	0.03822	0.382	
7	beta-BHC	4.096	4.091	0.005	780	0.03598	0.360	
8	delta-BHC	4.301	4.298	0.003	1972	0.04064	0.406	
9	Heptachlor	4.548	4.543	0.005	1605	0.03847	0.385	
10	Aldrin	4.901	4.896	0.005	1569	0.03565	0.356	
13	Heptachlor Epoxide	5.616	5.611	0.005	1494	0.03734	0.373	
15	gamma-Chlordane	5.766	5.760	0.006	1312	0.03245	0.324	
17	alpha-Chlordane	5.926	5.921	0.005	1461	0.03590	0.359	
20	Endosulfan I	6.096	6.091	0.005	1363	0.03805	0.380	
19	4,4'-DDE	6.011	6.006	0.005	1517	0.03689	0.369	
21	Dieldrin	6.388	6.383	0.005	1395	0.03546	0.354	
23	Endrin	6.674	6.668	0.006	1336	0.03636	0.364	
24	4,4'-DDD	6.746	6.741	0.005	1182	0.03591	0.359	
26	Endosulfan II	6.948	6.945	0.003	1240	0.03696	0.370	
28	Endrin Aldehyde	7.469	7.465	0.004	978	0.04079	0.408	
27	4,4'-DDT	7.093	7.088	0.005	1225	0.03482	0.348	
32	Endosulfan sulfate	8.014	8.010	0.004	1014	0.04578	0.458	
29	Methoxychlor	7.696	7.691	0.005	607	0.03323	0.332(a)	
33	Endrin Ketone	8.369	8.365	0.004	1304	0.04330	0.433	
$ 34	Decachlorobiphenyl	9.643	9.638	0.005	1993	0.06830	0.683	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00038.D
Date : 06-OCT-2023 16:11
Client ID: WG343476-LCS
Instrument: gc01.i
Sample Info: WG343476-2
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QJ00038.D
Report Date: 01-Nov-2023 10:46

Katahdin Analytical Services

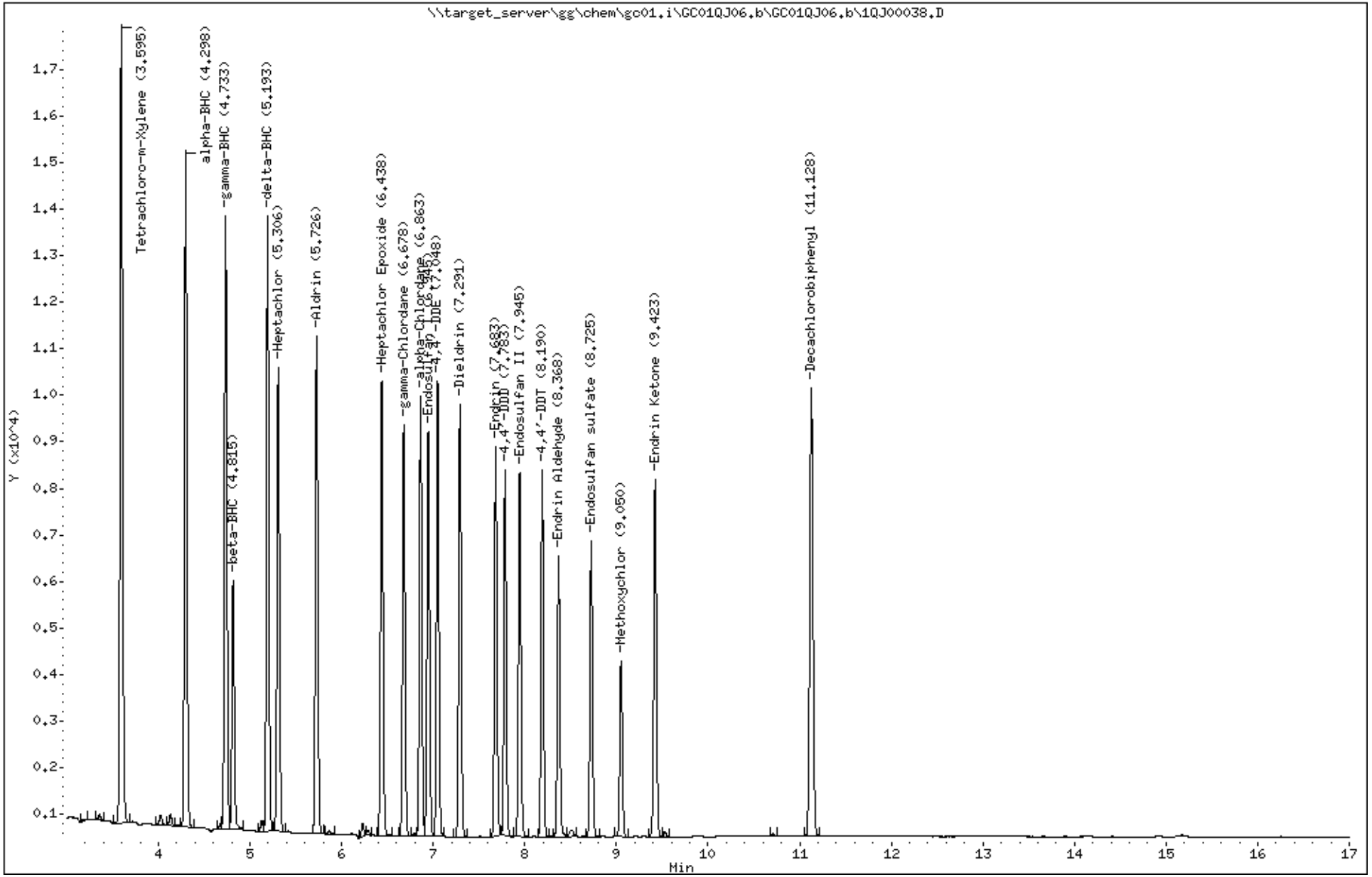
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Lab Smp Id: WG343476-2 Client Smp ID: WG343476-LCS
Inj Date : 06-OCT-2023 16:11
Operator : AD Inst ID: gc01.i
Smp Info : WG343476-2
Misc Info : WG343657,WG343476,WG342485-2,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29 Cal File: 1QI00079.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_LCS.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 4 Tetrachloro-m-Xylene	3.594	3.591	0.003	17141	0.06915	0.692	
5 alpha-BHC	4.297	4.293	0.004	14540	0.03634	0.363	
6 gamma-BHC	4.732	4.728	0.004	13164	0.03682	0.368	
7 beta-BHC	4.814	4.809	0.005	5356	0.03531	0.353	
8 delta-BHC	5.192	5.188	0.004	13201	0.03948	0.395	
9 Heptachlor	5.306	5.303	0.003	9956	0.03656	0.366	
10 Aldrin	5.726	5.723	0.003	10673	0.03496	0.350	
13 Heptachlor Epoxide	6.437	6.433	0.004	9771	0.03644	0.364	
15 gamma-Chlordane	6.677	6.673	0.004	8826	0.03210	0.321	
17 alpha-Chlordane	6.862	6.858	0.004	9463	0.03584	0.358	
20 Endosulfan I	6.944	6.941	0.003	8698	0.03658	0.366	
19 4,4'-DDE	7.047	7.044	0.003	9765	0.03570	0.357	
21 Dieldrin	7.291	7.288	0.003	9300	0.03476	0.348	
23 Endrin	7.682	7.678	0.004	8355	0.03594	0.359	
24 4,4'-DDD	7.782	7.779	0.003	7868	0.03587	0.359	
26 Endosulfan II	7.944	7.939	0.005	7816	0.03624	0.362	
28 Endrin Aldehyde	8.367	8.363	0.004	6018	0.04067	0.407	
27 4,4'-DDT	8.189	8.186	0.003	7876	0.03484	0.348	
32 Endosulfan sulfate	8.724	8.719	0.005	6366	0.04544	0.454	
29 Methoxychlor	9.049	9.044	0.005	3775	0.03369	0.337(a)	
33 Endrin Ketone	9.422	9.418	0.004	7683	0.04274	0.427	
$ 34 Decachlorobiphenyl	11.127	11.119	0.008	9617	0.06959	0.696	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00038.D
Date : 06-OCT-2023 16:11
Client ID: WG343476-LCS
Instrument: gc01.i
Sample Info: WG343476-2
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00039.D
Report Date: 01-Nov-2023 10:46

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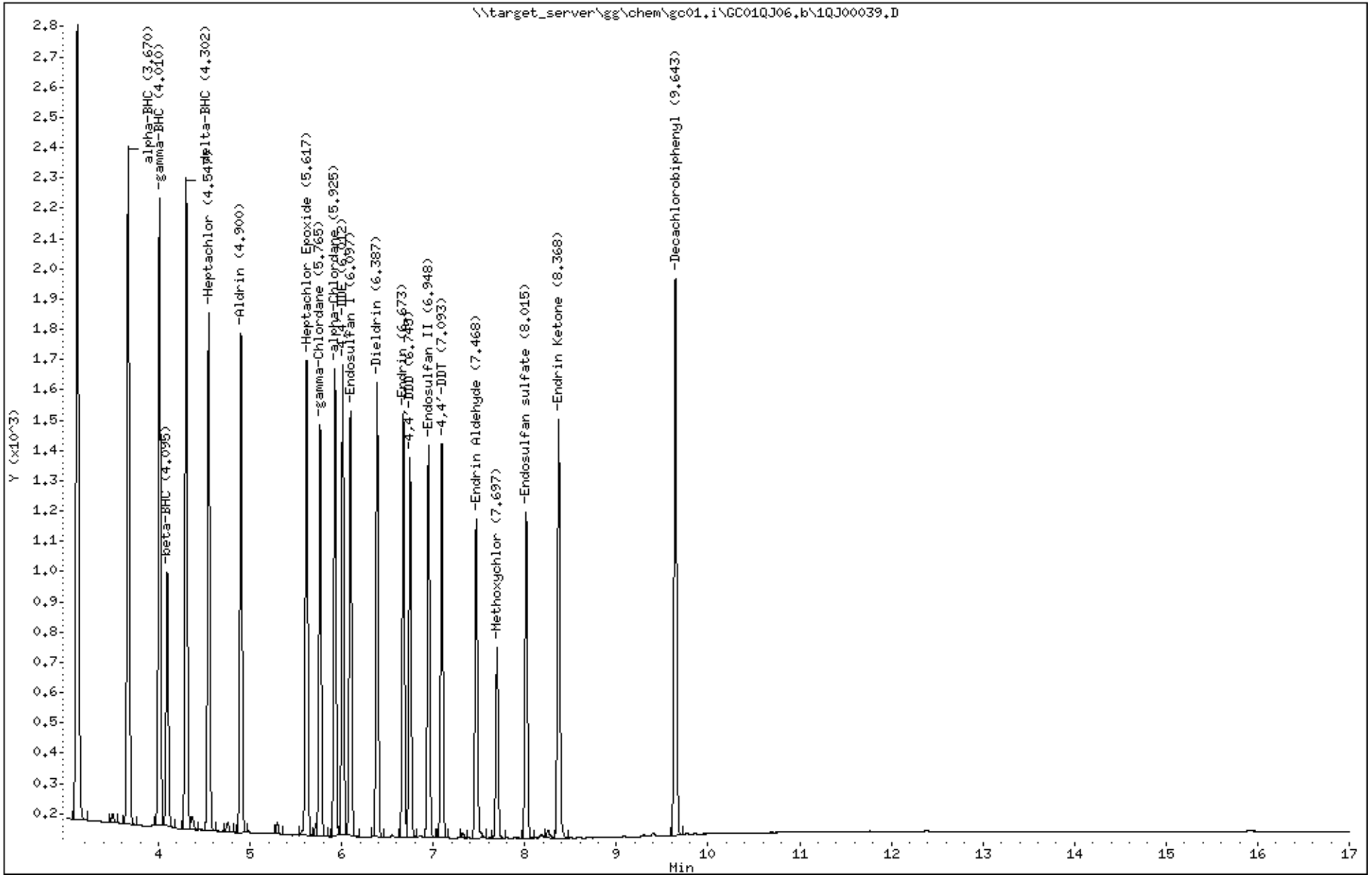
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Inj Date : 06-OCT-2023 16:30
Operator : AD Inst ID: gc01.i
Smp Info : WG343476-3
Misc Info : WG343657,WG343476,WG342485-2,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09 Cal File: 1QI00078.D
Als bottle: 5 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_LCS.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 4 Tetrachloro-m-Xylene	3.113	3.111	0.002	2626	0.07872	0.787	
5 alpha-BHC	3.670	3.666	0.004	2239	0.04148	0.415	
6 gamma-BHC	4.010	4.006	0.004	2072	0.04125	0.412	
7 beta-BHC	4.095	4.091	0.004	838	0.03865	0.386	
8 delta-BHC	4.301	4.298	0.003	2155	0.04442	0.444	
9 Heptachlor	4.546	4.543	0.003	1708	0.04094	0.409	
10 Aldrin	4.900	4.896	0.004	1650	0.03749	0.375	
13 Heptachlor Epoxide	5.616	5.611	0.005	1569	0.03921	0.392	
15 gamma-Chlordane	5.765	5.760	0.005	1358	0.03358	0.336	
17 alpha-Chlordane	5.925	5.921	0.004	1543	0.03791	0.379	
20 Endosulfan I	6.096	6.091	0.005	1398	0.03903	0.390	
19 4,4'-DDE	6.011	6.006	0.005	1551	0.03772	0.377	
21 Dieldrin	6.386	6.383	0.003	1500	0.03813	0.381	
23 Endrin	6.673	6.668	0.005	1396	0.03800	0.380	
24 4,4'-DDD	6.745	6.741	0.004	1255	0.03813	0.381	
26 Endosulfan II	6.948	6.945	0.003	1298	0.03869	0.387	
28 Endrin Aldehyde	7.468	7.465	0.003	1053	0.04392	0.439	
27 4,4'-DDT	7.093	7.088	0.005	1298	0.03690	0.369	
32 Endosulfan sulfate	8.015	8.010	0.005	1076	0.04858	0.486	
29 Methoxychlor	7.696	7.691	0.005	629	0.03443	0.344(a)	
33 Endrin Ketone	8.368	8.365	0.003	1383	0.04592	0.459	
$ 34 Decachlorobiphenyl	9.643	9.638	0.005	1838	0.06299	0.630	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00039.D
Date : 06-OCT-2023 16:30
Client ID: WG343476-LCSD
Instrument: gc01.i
Sample Info: WG343476-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 438 of 681

Data File: 1QJ00039.D
Report Date: 01-Nov-2023 10:46

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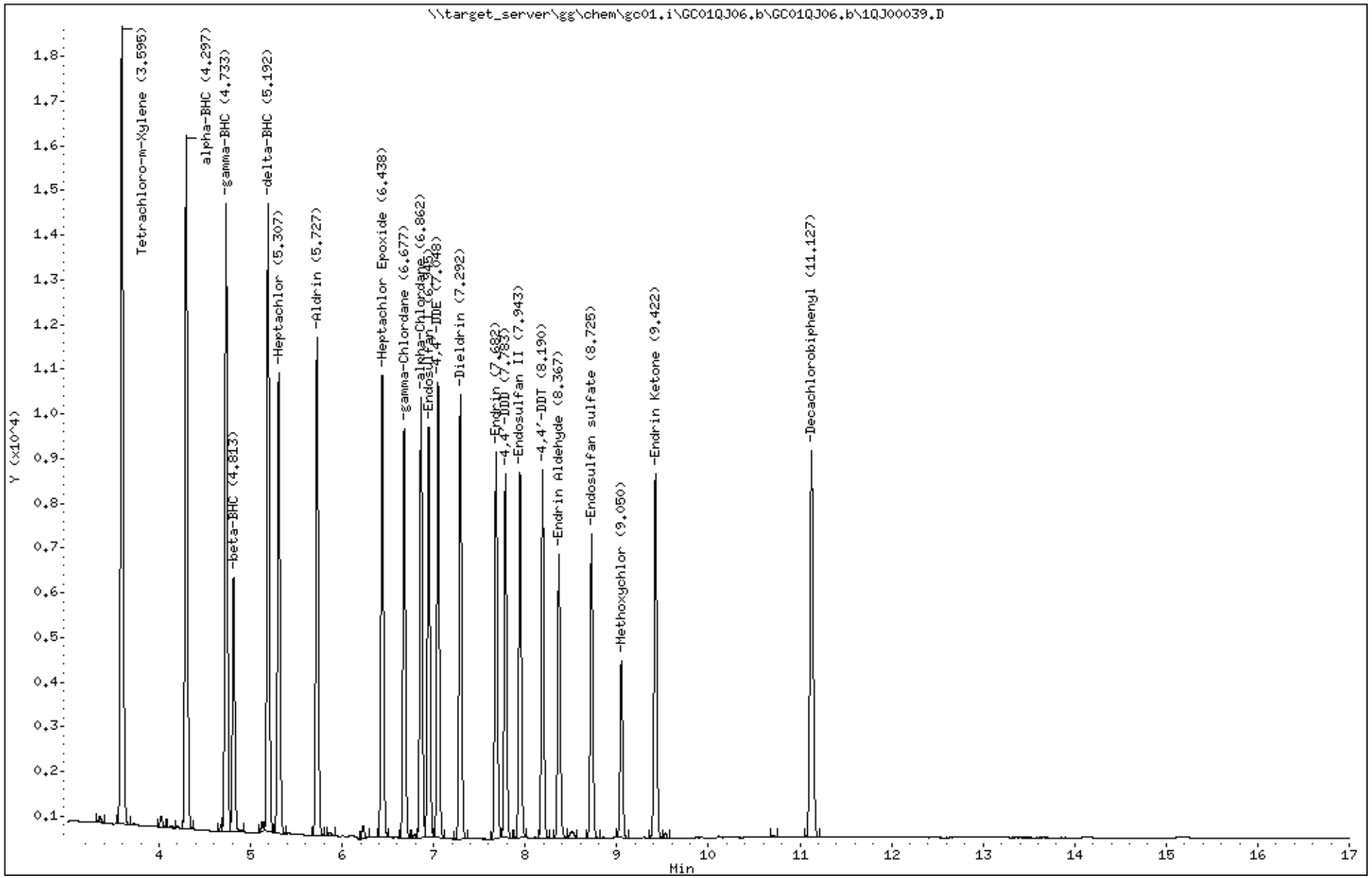
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Smp Info : WG343476-3
Misc Info : WG343657,WG343476,WG342485-2,SQ5109-1
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Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29 Cal File: 1QI00079.D
Als bottle: 5 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_LCS.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 4	Tetrachloro-m-Xylene	3.594	3.591	0.003	17860	0.07205	0.720	
5	alpha-BHC	4.296	4.293	0.003	15535	0.03883	0.388	
6	gamma-BHC	4.733	4.728	0.005	14061	0.03933	0.393	
7	beta-BHC	4.813	4.809	0.004	5694	0.03754	0.375	
8	delta-BHC	5.191	5.188	0.003	14059	0.04204	0.420	
9	Heptachlor	5.306	5.303	0.003	10305	0.03785	0.378	
10	Aldrin	5.726	5.723	0.003	11160	0.03656	0.366	
13	Heptachlor Epoxide	6.438	6.433	0.005	10351	0.03861	0.386	
15	gamma-Chlordane	6.676	6.673	0.003	9153	0.03329	0.333	
17	alpha-Chlordane	6.861	6.858	0.003	9844	0.03729	0.373	
20	Endosulfan I	6.944	6.941	0.003	9190	0.03865	0.386	
19	4,4'-DDE	7.048	7.044	0.004	10197	0.03728	0.373	
21	Dieldrin	7.291	7.288	0.003	9933	0.03713	0.371	
23	Endrin	7.681	7.678	0.003	8640	0.03717	0.372	
24	4,4'-DDD	7.783	7.779	0.004	8145	0.03713	0.371	
26	Endosulfan II	7.943	7.939	0.004	8175	0.03791	0.379	
28	Endrin Aldehyde	8.366	8.363	0.003	6358	0.04297	0.430	
27	4,4'-DDT	8.189	8.186	0.003	8256	0.03652	0.365	
32	Endosulfan sulfate	8.724	8.719	0.005	6805	0.04857	0.486	
29	Methoxychlor	9.049	9.044	0.005	3948	0.03523	0.352(a)	
33	Endrin Ketone	9.421	9.418	0.003	8171	0.04545	0.454	
$ 34	Decachlorobiphenyl	11.126	11.119	0.007	8645	0.06256	0.626	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00039.D
Date : 06-OCT-2023 16:30
Client ID: WG343476-LCSD
Instrument: gc01.i
Sample Info: WG343476-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Katahdin
ANALYTICAL SERVICES

LCS Recovery Report

Lab ID: WG343476-4
Client ID: LCS1
SDG: SQ5109
LCS File ID: 1QJ00040.D
Report Date: 01-NOV-23

Extract Date: 04-OCT-23
Extracted By: AD
Extraction Method: SW846 3510C
Lab Prep Batch: WG343476

Analysis Date: 06-OCT-23
Analyst: AD
Analysis Method: SW846 8081B
Matrix: AQ

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Toxaphene	65.3	10.0	6.53	ug/L	33-134
Tetrachloro-M-Xylene	67.8				44-124
Decachlorobiphenyl	57.5				41-131

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00040.D
Report Date: 01-Nov-2023 10:46

Katahdin Analytical Services

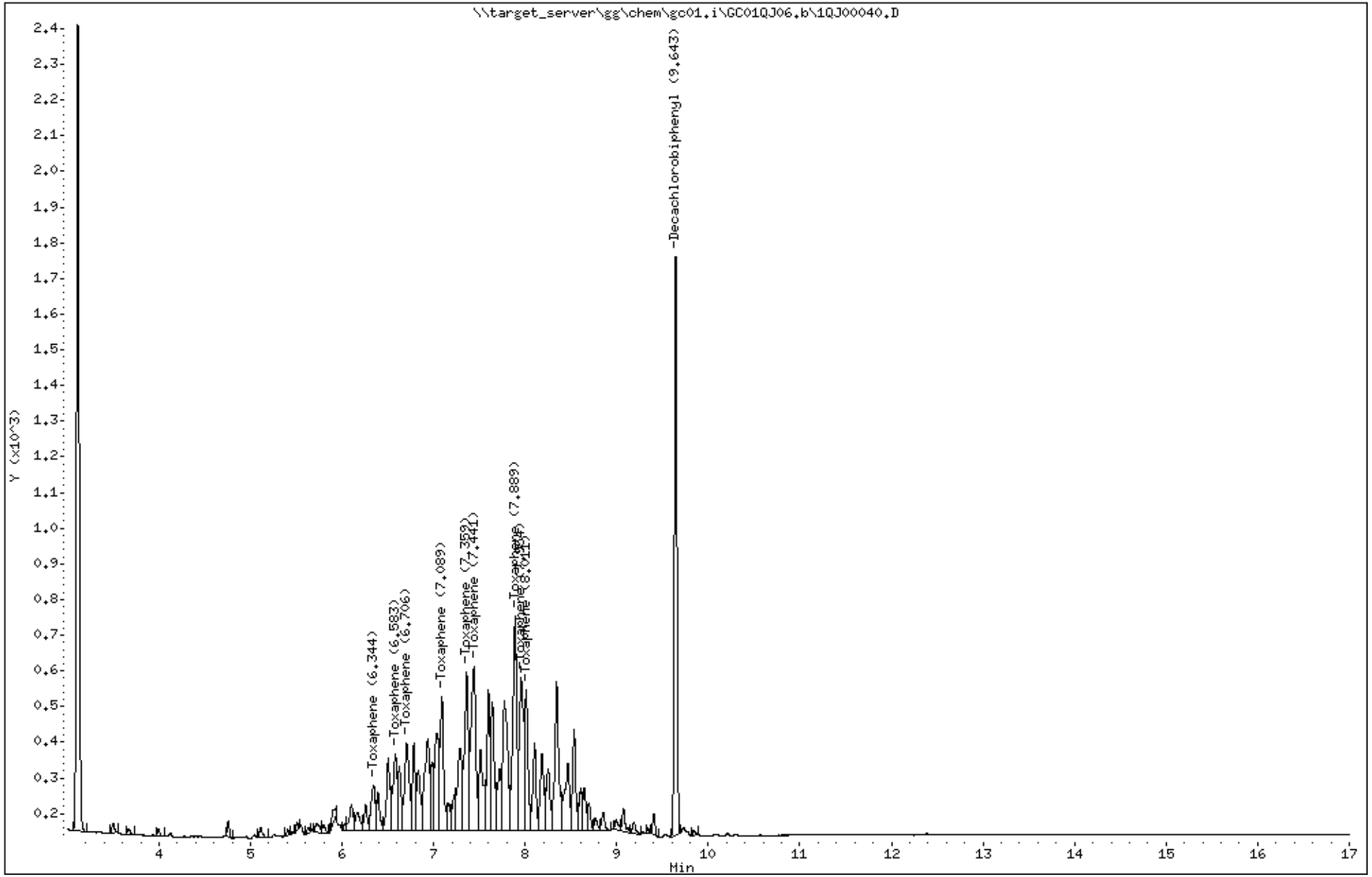
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Inj Date : 06-OCT-2023 16:50
Operator : AD Inst ID: gc01.i
Smp Info : WG343476-4
Misc Info : WG343657,WG343476,WG342486,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09 Cal File: 1QI00078.D
Als bottle: 6 QC Sample: LCS1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_toxLCS.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 4 Tetrachloro-m-Xylene					CAS #: 877-09-8			
3.112	3.111	0.001	2260	0.06775	0.678			
18 Toxaphene					CAS #: 8001-35-2			
6.344	6.387	-0.043	126	0.56456	5.64	80.00- 120.00	100.00	
6.582	6.619	-0.037	215	0.57150	5.72	117.33- 176.00	170.63	
6.706	6.699	0.007	242	0.63401	6.34	152.89- 229.33	192.06	
7.089	7.085	0.004	373	0.63619	6.36	222.22- 333.33	296.03	
7.359	7.355	0.004	442	0.62374	6.24	256.89- 385.33	350.79	
7.441	7.437	0.004	460	0.63421	6.34	256.00- 384.00	365.08	
7.889	7.884	0.005	598	0.67282	6.73	327.11- 490.67	474.60	
7.954	7.947	0.007	429	0.65709	6.57	224.89- 337.33	340.48	
8.011	8.005	0.006	393	0.60245	6.02	217.78- 326.67	311.90	
Average of Peak Concentrations =					6.22			
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3			
9.642	9.638	0.004	1622	0.05559	0.556			

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00040.D
Date : 06-OCT-2023 16:50
Client ID: WG343476-LCS1
Instrument: gc01.i
Sample Info: WG343476-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 443 of 681

Data File: 1QJ00040.D
Report Date: 01-Nov-2023 10:47

Katahdin Analytical Services

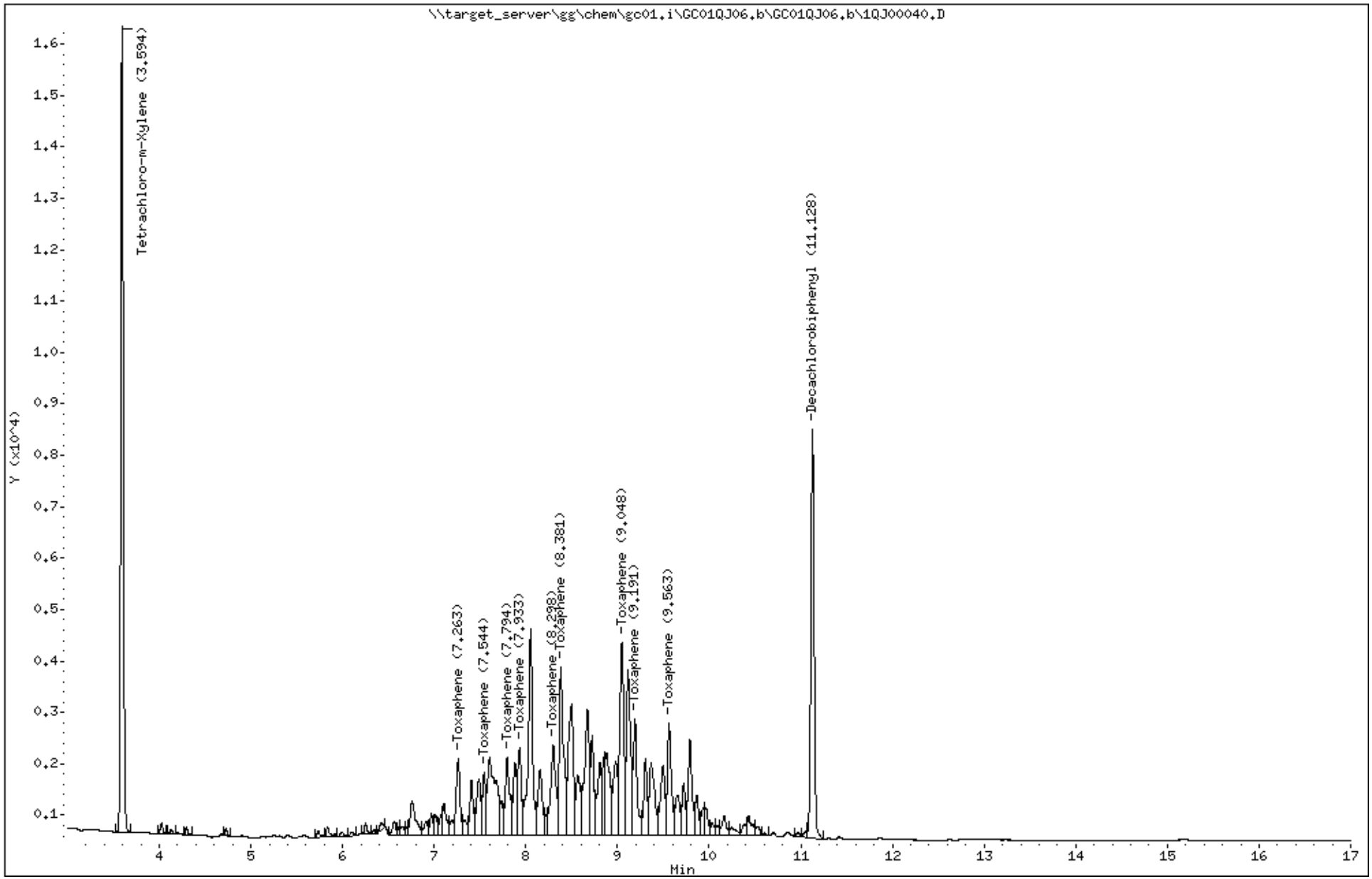
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Lab Smp Id: WG343476-4 Client Smp ID: WG343476-LCS1
Inj Date : 06-OCT-2023 16:50
Operator : AD Inst ID: gc01.i
Smp Info : WG343476-4
Misc Info : WG343657,WG343476,WG342486,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29 Cal File: 1QI00079.D
Als bottle: 6 QC Sample: LCS1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_toxLCS.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 4 Tetrachloro-m-Xylene					CAS #: 877-09-8			
3.594	3.591	0.003	15668	0.06321	0.632			
18 Toxaphene					CAS #: 8001-35-2			
7.262	7.255	0.007	1480	0.66482	6.65	80.00- 120.00	100.00	
7.544	7.539	0.005	1205	0.64333	6.43	68.25- 102.38	81.42	
7.794	7.789	0.005	1500	0.60299	6.03	78.31- 117.47	101.35	
7.932	7.927	0.005	1684	0.64462	6.45	86.37- 129.56	113.78	
8.297	8.292	0.005	1747	0.63702	6.37	88.37- 132.55	118.04	
8.380	8.375	0.005	3278	0.68506	6.85	157.54- 236.31	221.49	
9.047	9.042	0.005	3741	0.68520	6.85	173.13- 259.69	252.77	
9.190	9.185	0.005	2249	0.65048	6.50	106.33- 159.50	151.96	
9.562	9.557	0.005	2179	0.66762	6.68	102.11- 153.17	147.23	
		Average of Peak Concentrations =			6.53			
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3			
11.127	11.119	0.008	7945	0.05749	0.575			

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00040.D
Date : 06-OCT-2023 16:50
Client ID: WG343476-LCS1
Instrument: gc01.i
Sample Info: WG343476-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Katahdin
ANALYTICAL SERVICES

LCS Recovery Report

Lab ID: WG343476-5
Client ID: LCS2
SDG: SQ5109
LCS File ID: 1QJ00041.D
Report Date: 01-NOV-23

Extract Date: 04-OCT-23
Extracted By: AD
Extraction Method: SW846 3510C
Lab Prep Batch: WG343476

Analysis Date: 06-OCT-23
Analyst: AD
Analysis Method: SW846 8081B
Matrix: AQ

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Technical Chlordane	66.4	10.0	6.64	ug/L	62-140
Tetrachloro-M-Xylene	69.4				44-124
Decachlorobiphenyl	64.8				41-131

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00041.D
Report Date: 01-Nov-2023 10:46

Katahdin Analytical Services

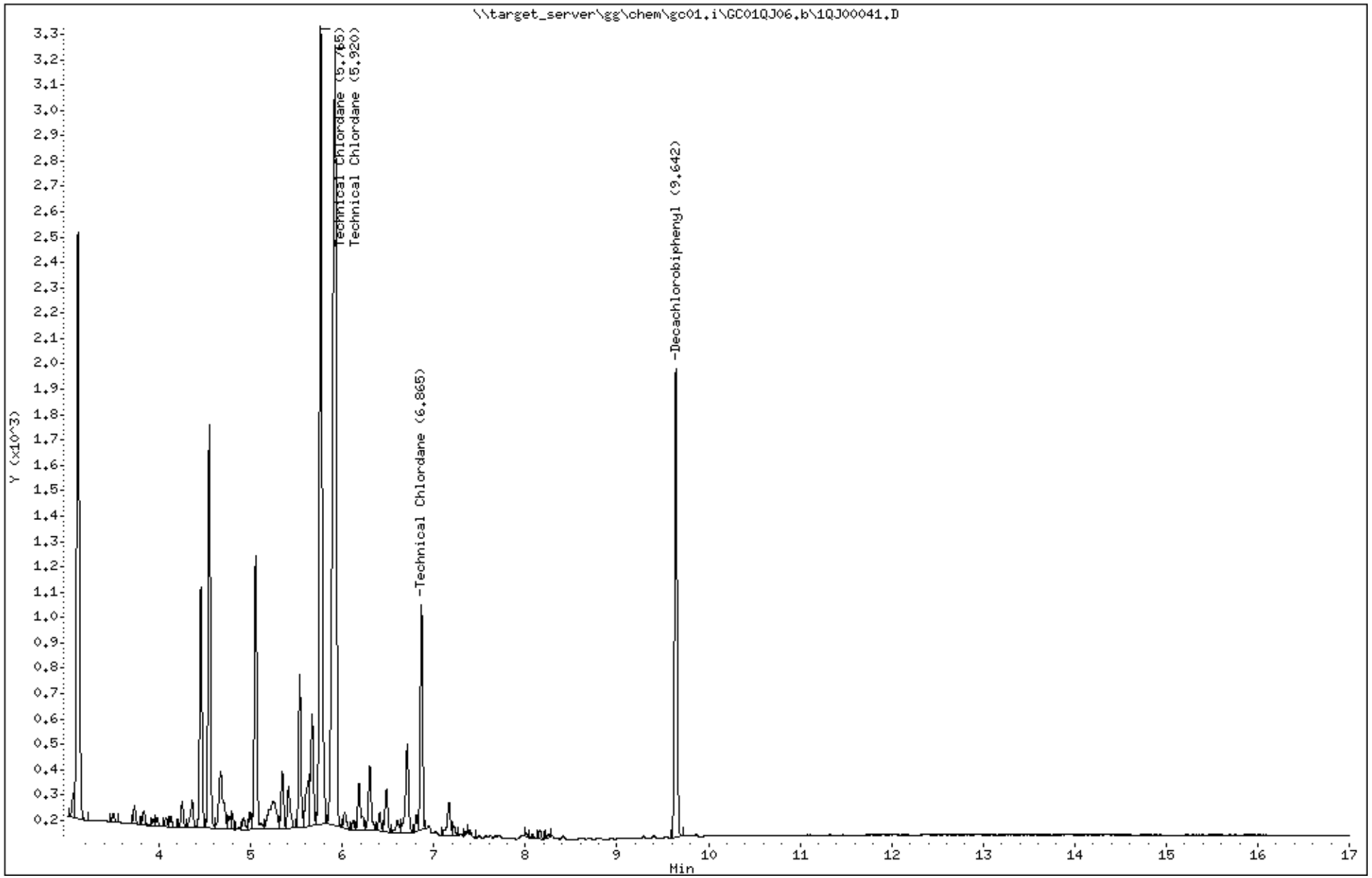
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Lab Smp Id: WG343476-5 Client Smp ID: WG343476-LCS2
Inj Date : 06-OCT-2023 17:09
Operator : AD Inst ID: gc01.i
Smp Info : WG343476-5
Misc Info : WG343657,WG343476,WG342487,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09 Cal File: 1QI00078.D
Als bottle: 7 QC Sample: LCS2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_tcLCS.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 4 Tetrachloro-m-Xylene					CAS #: 877-09-8			
3.113	3.111	0.002	2315	0.06940	0.694			
14 Technical Chlordane					CAS #: 12789-03-6			
5.765	5.760	0.005	3146	0.73581	7.36	80.00- 120.00	100.00	
5.920	5.901	0.019	3075	0.57385	5.74	101.50- 152.24	97.74	
6.865	6.860	0.005	889	0.68218	6.82	22.80- 34.19	28.26	
Average of Peak Concentrations =					6.64			
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3			
9.641	9.638	0.003	1845	0.06323	0.632			

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00041.D
Date : 06-OCT-2023 17:09
Client ID: WG343476-LCS2
Instrument: gc01.i
Sample Info: WG343476-5
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QJ00041.D
Report Date: 01-Nov-2023 10:47

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00041.D
Lab Smp Id: WG343476-5 Client Smp ID: WG343476-LCS2
Inj Date : 06-OCT-2023 17:09
Operator : AD Inst ID: gc01.i
Smp Info : WG343476-5
Misc Info : WG343657,WG343476,WG342487,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29 Cal File: 1QI00079.D
Als bottle: 7 QC Sample: LCS2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_tcLCS.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

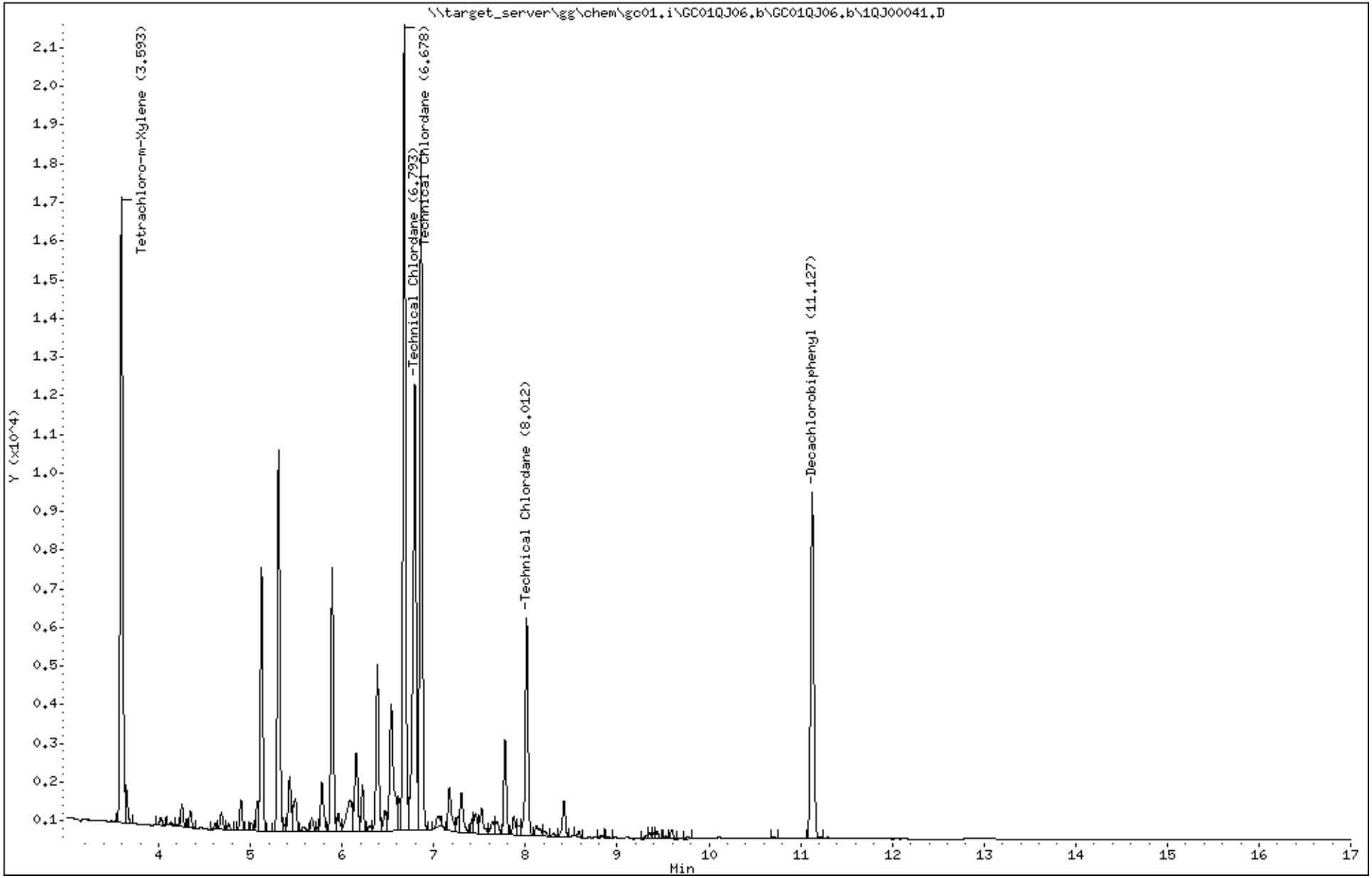
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 4 Tetrachloro-m-Xylene					CAS #: 877-09-8			
3.593	3.591	0.002	16180	0.06527	0.653			
14 Technical Chlordane					CAS #: 12789-03-6			
6.678	6.673	0.005	20852	0.69055	6.90	80.00- 120.00	100.00(R)	
6.793	6.790	0.003	11559	0.38563	3.86	77.28- 115.91	55.43	
8.011	8.008	0.003	5628	0.69924	6.99	19.41- 29.11	26.99	
Average of Peak Concentrations =					5.92			
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3			
11.126	11.119	0.007	8952	0.06478	0.648			

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00041.D
Date : 06-OCT-2023 17:09
Client ID: WG343476-LCS2
Instrument: gc01.i
Sample Info: WG343476-5
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES, LLC. Non-Volatile TCLP/SPLP Extraction Log

I. EXTRACTION CONDITIONS

Extraction Method:	SW846 1311 (TCLP) ☑		Balance ID: BAL-~~09-82~~ CD9-27	Rotary Extractor ID: 2		
	SW846 1312 (SPLP) ☐		pH Probe ID: pH 5	pH Meter ID: Fisher AB315 S/N A11928		
Solid pH Determination:	Date: 9-25-23	Analyst: MB/TT	Room Thermometer ID: DG 113	(Room Temp Criteria. 23(±2)°C)		
Rotary Extraction Started:	Date: 9-26-23	Time: 16:18	Analyst: CD	RoomTemp(°C):	Start: 21.0	End: 23
Rotary Extraction Completed:	Date: 9-27-23	Time: 8:54	Analyst: CD	Room Temp (°C):	Min. 21	Max. 23
Extraction Filtered:	Date: 9-27-23	Time: 12:00	Analyst: CD	Filter Lot #: 115066-3003-T / 0000191992		
Elapsed Extraction Time (HH:MM): 16:36		5% HNO_3 ID (used to wash filters): MB3749		HNO_3 Lot # (used to preserve extracts): MB2327		
Fluid 1 pH (Day of use): 4.94		Fluid 1 Expiration Date: 9-25-24		Rotary Extractor Rotation Rate Checked? YES		
Fluid 2 pH (Day of use): 2.91		Fluid 2 Expiration Date: 9-25-24		Criteria. 30 ± 2 RPM		

II. EXTRACTION SETUP TCLP Fluid pH: #1 - 4.93 ± 0.05 #2 - 2.88 ± 0.05 SPLP Fluid pH: #1 - 4.20 ± 0.05 #2 - 5.00 ± 0.05

Katahdin Sample No. (include bottle ID)	Matrix	Check One: 100% Wet Solids- waste will yield no liquid upon filtration	Check One: < 100% Wet Solids (Perform Solids Determination below)	SPLP FLUID # (1 for east and 2 for west of Mississippi River)	TCLP pH Determination and Fluid Selection (date & init. above): Initial pH of solid phase: (if <5, use Fluid #1; if >5 add 3.5 mL of 1 N HCl)	TCLP pH Determination and Fluid Selection (date & init. above): pH after 1 N HCL addition (if <5, use Fluid #1; if >5, use Fluid #2	Extraction Setup: Volume of Extraction Fluid (mL)	Extraction Setup: Fluid # used	Extraction Setup: Associated Extraction Blank ID:	Extraction Setup: Weight of Waste (g)	pH of extract after extraction:	Extract to be analyzed for: Metals (M), SVOA (S), PEST (P), HERB (H), Cyanide (C)	Extraction Bottle ID (if applicable)
SQ5102-1A	SL	✓	—	—	6.66	1.98	3000	1	PBT1813A	100.01	4.91	M	N/A
SQ5102-2A	↓	↓	—	↓	6.60	2.03	↓	↓	↓	100.31	4.92	↓	↓
SQ5102-3A			—		6.68	1.80				100.12	~~4.99~~ 4.88 CD9	2.20	
SQ5102-4A			—		6.66	2.03				100.29	4.98		
SQ5102-5A			—		6.99	1.96			101.17	100.33	4.94		
SQ5102-6A			—		6.36	1.97		↓	↓ 100.33	101.19	4.92		
SQ5080-2A			—		11.64	11.06		2	PBT1814A	100.30	7.16		
SQ5080-3A	↓	↓	—	↓	11.59	10.49		2	↓	100.40	6.60	↓	↓
SQ5109-1B	SL	✓	—	—	8.13	1.38	↓	1	PBT1813A	100.58	4.96	M,S,P,H	56
PBT1813A	WQ	-	-	-	-	-	3000	1	↓	-	4.90	↓	51

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QAAA232 - 000833

III. SOLIDS DETERMINATION

Date AQ Filtered:

Katahdin Sample No. (include bottle ID)	AQ or SL	Time Filt'd	A: Weight of filter (g)	B: Weight of filtrate vessel (g)	C: Weight of weigh boat + waste (g)	D: Weight of weigh boat + residue (g)	E: Weight of waste (C-D) (g)	F: Weight of filtrate vessel + filtrate (g)	G: Weight of liquid phase (F-B) (g)	H: Percent wet solids [(E-G)/E x 100%]	I: Weight of filter + dry solids (g)	J: Weight of dry solids (I-A) (g)	K: Percent dry solids (J/E x 100%)

IV. PHASE SEPARATION

Katahdin Sample No. (include bottle ID)	Matrix	Percent dry solids [1]: <0.5%	Percent dry solids [1]: >0.5%	L: Weight of filtrate vessel (g)	M: Weight of weigh boat + waste (g)	N: Weight of weigh boat + residue (g)	O: Weight of waste (M-N) (g)	P: Weight of filtrate vessel + filtrate (g)	Q: Weight of liquid phase (P-L) (g)	R: Volume of liquid phase (mL) [2]	S: Weight of wet solids (O - Q) (g)
									CD9-26-23		

1) If dry solids is <0.5%, filter sufficient volume of waste to support all required analyses. If dry solids >0.5% and wet solids <100%, perform phase separation (steps L – S above).

2) If miscible, proportionately combine pre-extraction filtrate with rotary extract. If not miscible, analyze aliquots separately and mathematically combine results.

V. COMMENTS:

Reviewed By_____ Date_____

ME-001 – Revision 8 – 05/03/2023

SH 10/4/23 ~~PCB~~ pest SEP DOD

KATAHDIN ANALYTICAL SERVICES, LLC.
ORGANIC EXTRACTIONS LOG - AQUEOUS PESTICIDE/PCB

Extraction Method: (check one)	SW846 3510 (SEP)		SW846 3520 (CLLE)	Other:
Analytical Method:(check one)	SW846 8081	SW846 8082	EPA 608 (Mark meniscus with marker to determine IV)	Other:
Surrogate ID: GC2506	Spike ID: GC2479 pest		Spike ID: GC2496 TOX	GC2457 T.C.
Methylene Chloride Lot #: EH2006-US	Hexane Lot #: 224540		Acetone Lot #: —	
$NaSO_4$ Lot # RE1012	Filter Paper Lot #: CX0168		Boiling Stones ID: —	H_2SO_4 or NaOH Lot #: —
Vial Lot #: CX0161	pH Paper Lot # 4303005		Sample pH between 5 and 9? yes	Note in comment section samples requiring pH adjustment.
Nitrogen Bath Temperature: 40 C	KI Starch Paper ID: 03062023		TRC Present? no	If positive, note in comment section and contact the PM, the client may need to resample.
Prep Start Time: 11:15	Prep End Time: 11:45		CLLE Start Time: —	CLLE End Date & Time: —

Date Extracted	Ext. Init.	Sample ID	Initial Vol. (mL)	Surr. Vol.	Spike Vol.	Fraction: Pest	Fraction: PCB	Final Vol. mL	Date Conc.	Tray Location	Initials	Clean-Up: GPC	Clean-Up: Flor.	Clean-Up: Acid Wash	Clean-Up: Other	RL 24222 Comments
10/4/23	SH SR	WG343476-1	1000	1.0	N/A	\		10.00	10/5/23	F4	SR					MB
↓	↓	-2	↓	↓	1.0	\		↓	↓	F5	↓					LCS
		-3			↓	\				F6						LCSD
		-4				\				F7						TOX
↓	↓	-5	↓	↓	↓	\		↓	↓	F8	↓					TC

10/5/23

EX-002 – Revision 4 – 04/16/19

QAEX491_000479 0000178

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction: Pest	Fraction: PCB	Final Vol. mL	Date Conc.	Tray Location	Initials	Clean-Up: GPC	Clean-Up: Flor.	Clean-Up: Acid Wash	Clean-Up: Other	Comments
10/4/23	SH SR	SQ5108-1	200	1.0	N/A	\		10.00	10/5/23	S9	SR					RE TCLP
↓	↓	SQ5109-1	200	↓	L	\		↓	↓	FID	↓					↓

PIP
SEP

KATAHDIN ANALYTICAL SERVICES, LLC.
ORGANIC EXTRACTIONS LOG - AQUEOUS PESTICIDE/PCB

Extraction Method: (check one)	SW846 3510 (SEP) X		SW846 3520 (CLLE)	Other:
Analytical Method:(check one)	SW846 8081 X	SW846 8082 X	EPA 608 (Mark meniscus with marker to determine IV)	Other:
Surrogate ID: GC2506	Spike ID: GC2485 PCB GC2479 Pest		Spike ID: GC2466 1254	GC2496 TOX
Methylene Chloride Lot #: EH2064	Hexane Lot #: 224540		Acetone Lot #: —	GC2457 T.C.
$NaSO_4$ Lot # RE1012	Filter Paper Lot #: CX0168		Boiling Stones ID: —	H_2SO_4 or NaOH Lot #: —
Vial Lot #: CX0161	pH Paper Lot # 6303005		Sample pH between 5 and 9? yes	Note in comment section samples requiring pH adjustment.
Nitrogen Bath Temperature: 40c	KI Starch Paper ID: 03052023		TRC Present? NO	If positive, note in comment section and contact the PM, the client may need to resample.
Prep Start Time: 9:45	Prep End Time: 10:20		CLLE Start Time: —	CLLE End Date & Time: —

Date Extracted	Ext. Init.	Sample ID	Initial Vol. (mL)	Surr. Vol.	Spike Vol.	Fraction: Pest	Fraction: PCB	Final Vol. mL	Date Conc.	Tray Location DP971	Initials	Clean-Up: GPC	Clean-Up: Flor.	Clean-Up: Acid Wash	Clean-Up: Other	R623928/9 Comments
9/28/23	SH SR	WG343220-1	1000	1.0	N/A	\	\	10mL	9-29-23	B10	AC			✓		MB
		-2			1.0		\			B11						LCS
		-3					\			B12						LCSD
		-4	↓				\			C1						1254
		-5	1070				\			C2						MS SQ5132-2
		-6	1070				\			C3				↓		MSD ↓
		WG343221-2	1000			\				C4						LCS
		-3				\				C5						LCSD
		-4				\				C6						TOX
		-5	↓	↓	↓	\				C7						T.C.
↓	↓	-6	200	↓	N/A	\		↓	↓	C8	↓					TCLP, BLANK BT1B3A

EX-002 – Revision 4 – 04/16/19

QAEX491 - 000479

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction: Pest	Fraction: PCB	Final Vol. mL	Date Conc.	Tray Location DP971	Initials	Clean-Up: GPC	Clean-Up: Flor.	Clean-Up: Acid Wash	Clean-Up: Other	Comments
9/28/23	SH SR	SQ5108-1	200	1.0	N/A	\		10mL	9-29-23	C9	AC					TCLP
		SQ5109-1 AC	200			\				C10						↓
		SQ5132-1	1030				\			C11				✓		
		-2	1070				\			C12						
		-3	1070				\			D1						
		-4	1050				\			D2						
		-5	1070				\			D3						
		-6	1070				\			D4						
		-7	1070				\			D5						
		-8	1070				\			D6						
		-9	1060				\			D7						
		SQ5147-1	1010				\			D8						
		-2	1060				\			D9						
		-3	1070				\			D10						
		-4	1070				\			D11						
↓	↓	-6	1070	↓	↓		\	↓	↓	D12	↓					

AC 9-29-23

EX-002 – Revision 4 – 04/16/19

Katahdin Analytical Services

GC Laboratory Instrument Runlog
Instrument: GC01
Amount Injected: 2 uL
Column Numbers: 586, 587
Method: SW846 8011 / (8081) / 8082 / 8151
(circle) EPA 504.1 / 556

Hexane Lot #	224540
Standard	Standard ID
INDAB 1.0, 0.05, 0.025	P0940, 941, 942
TOX 10, 1.0, 0.5	P0943, 944, 945
TC 10, 0.5, 0.25	P0946, 947, 948
EVAL	P0939

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
9/11/23	AD	IQ100048	EVAL	Y	WG342485 -1	PEST263	P0939
		49	INDAB 0.05	Y	-2		P0941
		50	INDAB 0.005	Y	-3		1:10 P0941
		51	INDAB 0.01	Y	-4		1:5 P0941
		52	INDAB 0.025	Y	-5		P0942
		53	INDAB 0.1	Y	-6		1:10 of P0940
		54	INDAB 0.25	Y	-7		1:4 of P0940
		55	INDAB IND 0.05	Y	-8		1:10 GC2479
		56	TOX 1.0	Y	WG342486 -1		P0944
		57	TOX 0.1	Y	-2		1:10 P0944
		58	TOX 0.25	Y	-3		1:4 P0944
		59	TOX 0.5	Y	-4		P0945
		60	TOX 2.5	Y	-5		1:4 P0943
		61	TOX 10	Y	-6		P0943
		62	TOX IND 10	Y	-7		1:10 GC2496
		63-70	TC ICAL	N			unusable data
9/12/23	AD	71-73	PRIME	N	WG342487		
		74	TC 0.5	Y	-1		P0947
		75	TC 0.05	Y	-2		1:10 P0947
		76	TC 0.1	Y	-3		1:5 P0947
		77	TC 0.25	Y	-4		P0948
		78	TC 1.0	Y	-5		1:10 P0946
		79	TC 2.5	Y	-6		1:4 P0946
		80	TC IND 0.5	Y	-7		1:10 GC2457

AD 9/20/23

Katahdin Analytical Services

GC Laboratory Instrument Runlog
Instrument: GC01
Amount Injected: 2 uL
Column Numbers: 586,587
Method: SW846 8011 / (8081) / 8082 / 8151
(circle) EPA 504.1 / 556

Hexane Lot #	230897
Standard	Standard ID
INDAB 0.05, 0.025	P0941, 942
TOX 1.0, 0.5	P0944, 945
TC 0.5, 0.25	P0947, 948
EVAL	P0939

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
9/22/23	AD	1Q100173-74	PRIME	N	WG342951	PEST263	
↓	↓	75	EVAL	Y	-8	↓	
		76	INDAB 0.05	Y	-9		
		77	WG342831-7	N			1254 LCS
		78	WG342830-2	Y			LCS
↓	↓	79	INDAB 0.025	Y	↓	↓	1↓A
10/2/23	AD	1Q1					AD 10/2/23
10/2/23	AD	1Q100001-04	PRIME	N	WG343429	PEST263	
		05-08	INDAB 0.05	N			warm UPS
		09	INDAB 0.05	Y	-1		
		10	TOX 1.0	Y	-2		
		11	TC 0.5	Y	-3		
		12	EVAL	Y	-4		<15%
		13	WG343221-1	Y			Blank
		14	-2	Y			LCS
		15	-3	Y			LCSD
		16	-4				TOX LCS DCB↓A,B
		17	-5				TC LCS TC↓A,B DCB↓A,B
		18	-6	Y			TCLP Blank PBT1813
		19	SQ5108-1	Y			
		20	SQ5109-1	Y			
		21	WG343363-1	Y			Blank
10/3/23		22	-2				LCS 5↓A,B
		23	-3				LCSD 8↓A,B TOX↓A,B
		24	-4	Y			TOX LCS
		25	-5				TC LCS TC↓A,B TCX↓A,B
		26	SQ5206-1	Y			
		27	-2	Y			
		28	INDAB 0.025	Y	-6		

Katahdin Analytical Services

GC Laboratory Instrument Runlog
Instrument: GC01
Amount Injected: 2 uL
Column Numbers: 586,587
Method: SW846 8011 / 8081 / 8082 / 8151
(circle) EPA 504.1 / 556

Hexane Lot #	230897
Standard	Standard ID
INDAB 0.05, 0.025	P0941, 942
TOX 1.0, 0.5	P0944, 945
TC 0.5, 0.25	P0947, 948
EVAL	P0939

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
10/3/23	AD	10100029	TOX 0.5	Y	WG343429-6	PEST263	
↓	↓	↓ 30	TC 0.25	Y	↓ -7	↓	
10/6/23	AD	10100031-32	PRIME	N	WG343057	PEST263	
↓	↓	33	EVAL	Y	-1	↓	<15%
		34	INDAB 0.05	Y	-2		
		35	TOX 1.0	Y	-3		
		36	TC 0.5	Y	-4		
		37	WG343476-1	Y			Blank
		38	↓ -2	Y			LCS
		39	-3	Y			LCSD
		40	-4	Y			TOX LCS
		41	↓ -5	Y			TC LCS TC ↓ B
		42	SQ5108-IRE	Y			
		43	SQ5109-IRF	Y			
		44	WG342881-1	Y			Blank
		45	↓ -2	Y			LCS alpha-Chlordane ↓ B
		46	↓ -3	Y			LCSD
		47	SQ4870-1DL	Y			1:10DL 50:450
		48	SQ5016-1DL	Y			↓ ↓
		49,50	HEXANE	N			RINSE
		51	INDAB 0.025	Y	-5		Endrin, ODT, methoxychlor ↓ A, B matrix interference
		52	TOX 0.5	Y	-6		
↓	↓	↓ 53	TC 0.25	Y	↓ -7	↓	

TCLP HERBICIDE DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **SDG:** SQ5109 **Matrix:** AQ

Client Sample ID	Lab Sample ID	Col. ID	DCPA	#
DOW-SWC-01	SQ5109-1	A	110.	
DOW-SWC-01	SQ5109-1	B	96.0	
Method Blank	WG343382-1	A	119.	
Method Blank	WG343382-1	B	107.	
Laboratory Control S	WG343382-2	A	115.	
Laboratory Control S	WG343382-2	B	106.	
Laboratory Control S	WG343382-3	A	117.	
Laboratory Control S	WG343382-3	B	111.	
TCLP Blank	WG343382-4	A	106.	
TCLP Blank	WG343382-4	B	96.4	

Abbr.	Surrogate Compound	QC Limits
DCPA	2,4-Dichlorophenylacetic Acid	32-138

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Lab File ID : 8QJ00284.D
Instrument ID : GC08
Matrix : AQ

SDG : SQ5109
Lab Sample ID : WG343382-1
Date Extracted : 02-OCT-23
Extraction Method : SW846 3510C

Column A
Date Analyzed : 11-OCT-23
Time Analyzed : 15:48

Column B
Date Analyzed : 11-OCT-23
Time Analyzed : 15:48

This Method Blank applies to the following samples and QC samples:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG343382-2	8QJ00285.I	10/11/23	16:13
Laboratory Control S	WG343382-3	8QJ00286.I	10/11/23	16:38
TCLP Blank	WG343382-4	8QJ00287.I	10/11/23	17:03
DOW-SWC-01	SQ5109-1	8QJ00289.I	10/11/23	17:53

Form 8
Analytical Sequence

Lab Name: Katahdin Analytical Services **SDG:** SQ5109
Instrument ID: GC08 **Column ID:** A

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	DCPA	
Initial Calibration	WG339228-1	07/10/23	11:53	11.72	
Initial Calibration	WG339228-2	07/10/23	12:17	11.73	
Initial Calibration	WG339228-3	07/10/23	12:42	11.73	
Initial Calibration	WG339228-4	07/10/23	13:07	11.74	
Initial Calibration	WG339228-5	07/10/23	13:32	11.74	
Initial Calibration	WG339228-6	07/10/23	13:57	11.72	
Independent Source	WG339228-7	07/10/23	14:22		
Continuing Calibrati	WG343780-1	10/11/23	13:58	11.53	
Method Blank	WG343382-1	10/11/23	15:48	11.52	
Laboratory Control S	WG343382-2	10/11/23	16:13	11.51	
Laboratory Control S	WG343382-3	10/11/23	16:38	11.52	
TCLP Blank	WG343382-4	10/11/23	17:03	11.51	
DOW-SWC-01	SQ5109-1	10/11/23	17:53	11.57	
Continuing Calibrati	WG343780-2	10/11/23	22:05	11.57	

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Form 8
Analytical Sequence

Lab Name: Katahdin Analytical Services **SDG:** SQ5109
Instrument ID: GC08 **Column ID:** B

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	DCPA	
Initial Calibration	WG339228-1	07/10/23	11:53	12.54	
Initial Calibration	WG339228-2	07/10/23	12:17	12.54	
Initial Calibration	WG339228-3	07/10/23	12:42	12.54	
Initial Calibration	WG339228-4	07/10/23	13:07	12.55	
Initial Calibration	WG339228-5	07/10/23	13:32	12.55	
Initial Calibration	WG339228-6	07/10/23	13:57	12.54	
Independent Source	WG339228-7	07/10/23	14:22		
Continuing Calibrati	WG343780-1	10/11/23	13:58	12.30	
Method Blank	WG343382-1	10/11/23	15:48	12.29	
Laboratory Control S	WG343382-2	10/11/23	16:13	12.31	
Laboratory Control S	WG343382-3	10/11/23	16:38	12.32	
TCLP Blank	WG343382-4	10/11/23	17:03	12.32	
DOW-SWC-01	SQ5109-1	10/11/23	17:53	12.37	
Continuing Calibrati	WG343780-2	10/11/23	22:05	12.37	

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Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL, "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery or percent RPD (relative percent difference) was outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

And/or

J Used for Dual Column analytes when there is a greater than 40% difference for detected concentrations between the two GC/HPLC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

I Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration (ICAL).

D Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration Verification (ICV).

C Indicates that the flagged compound did not meet DoD criteria in the corresponding opening Calibration Verification (CV).

V Indicates that the flagged compound did not meet DoD criteria in the corresponding closing Calibration Verification (CV).

L/LL Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M/MM Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike (MS) and/or Matrix Spike Duplicate MSD) prepared and/or analyzed concurrently with the native sample.

H Indicates the flagged compound was detected on the primary column but was not detected on the confirmation column therefore the compound is not reported as a positive detection. (SW846 8330A/B only)

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5109
Lab ID: SQ5109-1
Client ID: DOW-SWC-01
Matrix: AQ
Lab File ID: 8QJ00289.D

Sample Date: 21-SEP-23
Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: 3510C/1311
Lab Prep Batch: WG343382

Report Date: 19-OCT-23
Analysis Date: 11-OCT-23
Analyst: SR
Analysis Method: SW846 8151A
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
2,4-D	U	7.5	ug/L	1	3	15.	3.8	7.5
Silvex	U	7.5	ug/L	1	3	15.	3.8	7.5
2,4-Dichlorophenylacetic Acid		110.	%					

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Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00289.D
Report Date: 19-Oct-2023 10:54

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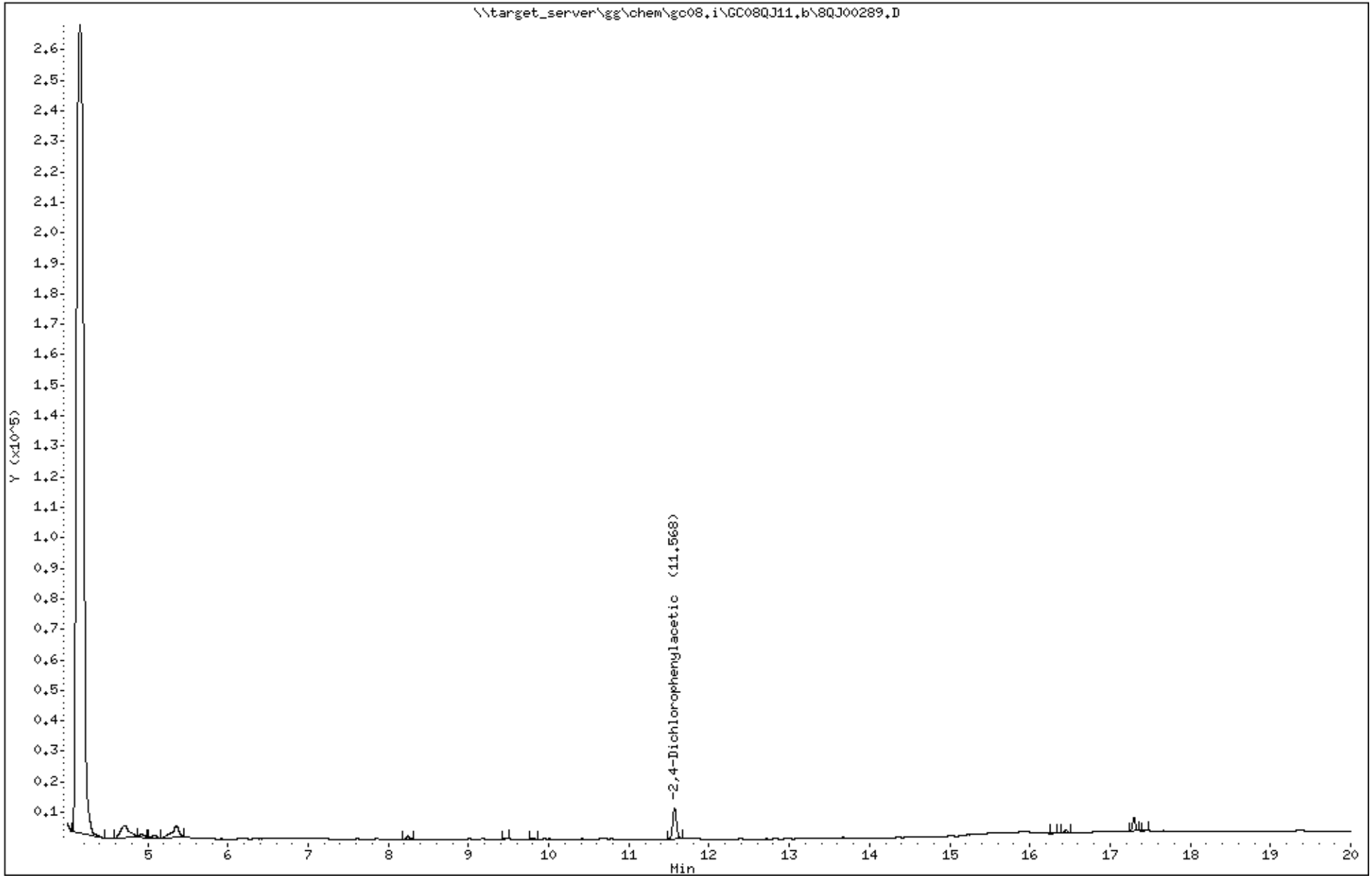
Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00289.D
Lab Smp Id: SQ5109-1 Client Smp ID: DOW-SWC-01
Inj Date : 11-OCT-2023 17:53
Operator : SR Inst ID: gc08.i
Smp Info : SQ5109-1
Misc Info : WG343780,WG343382,WG339228-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	0.20000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng/uL)	(ug/L)	REVIEW CODE
$ 2 2,4-Dichlorophenylacetic Acid	11.568	11.569	-0.001	10298	0.58733	27.5	

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00289.D
Date : 11-OCT-2023 17:53
Client ID: DOW-SWC-01
Instrument: gc08.i
Sample Info: SQ5109-1
Purge Volume: 0.2
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 469 of 681

Data File: 8QJ00289.D
Report Date: 19-Oct-2023 10:54

Katahdin Analytical Services

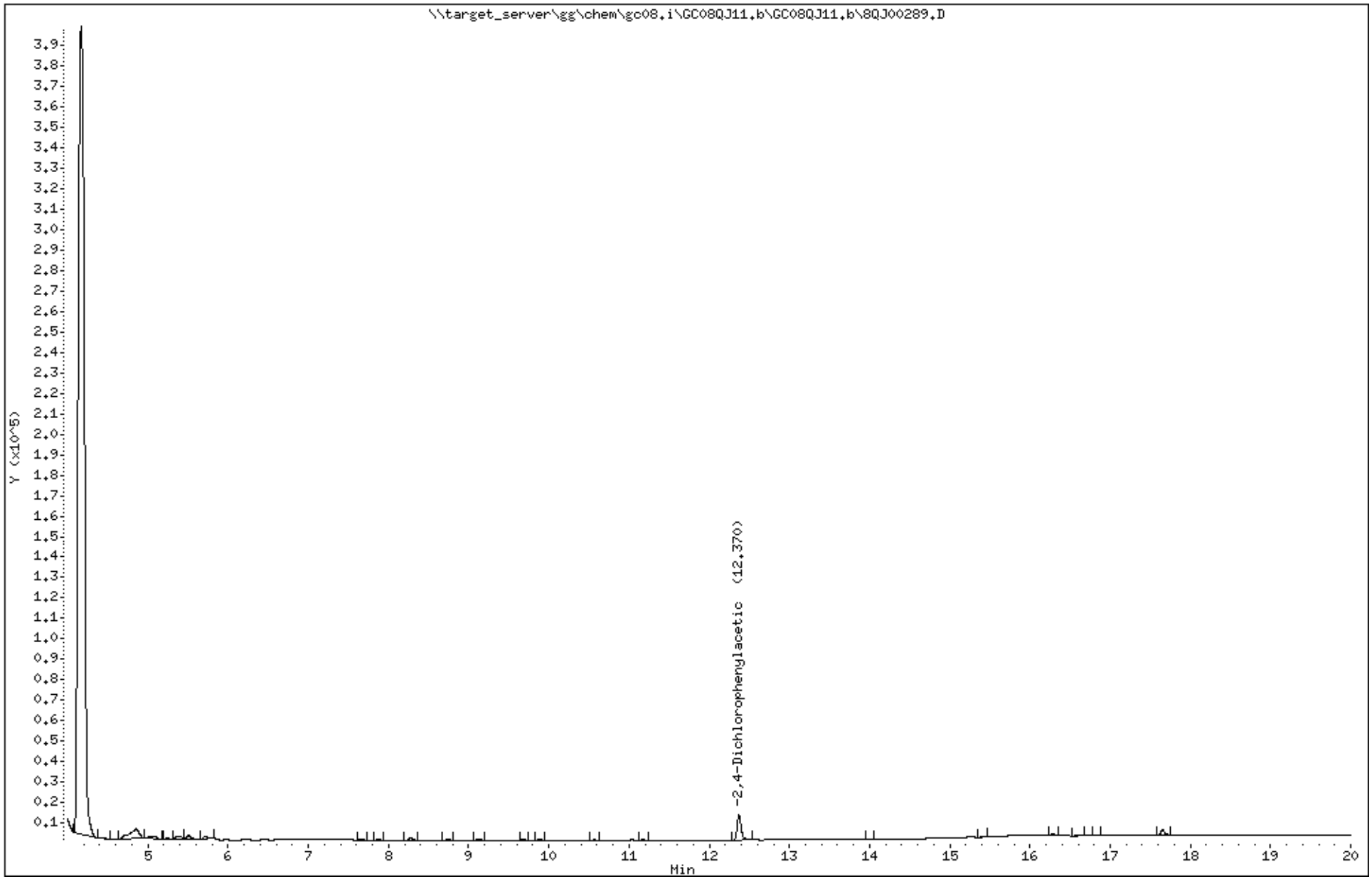
Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00289.D
Lab Smp Id: SQ5109-1 Client Smp ID: DOW-SWC-01
Inj Date : 11-OCT-2023 17:53
Operator : SR Inst ID: gc08.i
Smp Info : SQ5109-1
Misc Info : WG343780,WG343382,WG339228-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	0.20000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	
Compounds	RT	EXP RT	DLT RT	RESPONSE				REVIEW CODE
$ 2 2,4-Dichlorophenylacetic Acid	12.370	12.371	-0.001	12142		0.51373	24.0	

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00289.D
Date : 11-OCT-2023 17:53
Client ID: DOW-SWC-01 Instrument: gc08.i
Sample Info: SQ5109-1
Purge Volume: 0.2 Operator: SR
Column phase: RTX-CLPesticides2 Column diameter: 0.53



Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5109

Instrument ID: GC08 **Column ID:** A

Lab File IDs : 8QG00066.D8QG00065.D8QG00061.D 8QG00064.D8QG00063.D8QG00062.D **Calibration Date(s):** 10-JUL-23 11:53 10-JUL-23 13:57

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	0.100000(	0.250000(	0.500000(	0.750000(	1.0000	2.0000	Type	b	m1	m2	Result	Limit	
2,4-D	24920	25988	27438	27289	28108	29705	AVG		27241		6.10268	20	O
Silvex	137340	147560	147550	148360	147252	140887	AVG		144825		3.16159	20	O
2,4-Dichlorophenylacetic Ac	16950	17058	17562	17481	17619	18532	AVG		17534		3.19947	20	

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5109

Instrument ID: GC08 **Column ID:** B

Lab File IDs : 8QG00066.D8QG00065.D8QG00061.D 8QG00064.D8QG00063.D8QG00062.D **Calibration Date(s):** 10-JUL-23 11:53 10-JUL-23 13:57

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	0.100000(	0.250000(	0.500000(	0.750000(	1.0000	2.0000	Type	b	m1	m2	Result	Limit	
2,4-D	26850	31168	35274	36765	38828	41505	AVG		35065		15.1572(	20	O
Silvex	153930	180076	194300	190557	191527	186332	AVG		182787		8.19516	20	O
2,4-Dichlorophenylacetic Ac	21505	22742	23704	24069	24249	25541	AVG		23635		5.84339	20	

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00067.D
Report Date: 11-Jul-2023 09:30

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RECOVERY REPORT

Client Name: Client SDG: SDGa01696
Sample Matrix: LIQUID Fraction: Herbicides
Lab Smp Id: HERB IND 0.5
Level: MED Operator: SR
Data Type: GC DATA SampleType: INDSOURCE
SpikeList File: IND.spk Quant Type: ESTD
Sublist File: IND.sub
Method File: \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m
Misc Info: WG339228,WG339228,WG339228-1,SQ2027-1

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dalapon	0.455	0.392	86.13	80-120
3 Dicamba	0.495	0.500	100.98	80-120
4 MCPP	46.9	46.7	99.59	80-120
5 MCPA	46.7	45.3	96.92	80-120
6 Dichloroprop	0.472	0.425	90.08	80-120
7 2,4-D	0.470	0.428	91.08	80-120
8 Pentachlorophenol	0.475	0.449	94.52	80-120
9 Silvex	0.475	0.493	103.88	80-120
10 2,4,5-T	0.474	0.493	104.04	80-120
11 2,4-DB	0.473	0.550	116.20	80-120
12 Dinoseb	0.472	0.491	104.00	80-120

Data File: 8QG00067.D
Report Date: 11-Jul-2023 09:30

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa01696
Sample Matrix: LIQUID Fraction: Herbicides
Lab Smp Id: HERB IND 0.5
Level: MED Operator: SR
Data Type: GC DATA SampleType: INDSOURCE
SpikeList File: IND.spk Quant Type: ESTD
Sublist File: IND.sub
Method File: \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m\HERB150.m
Misc Info: WG339228,WG339228,WG339228-1,SQ2027-1

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dalapon	0.455	0.439	96.48	80-120
3 Dicamba	0.495	0.507	102.35	80-120
4 MCPP	46.9	47.3	100.80	80-120
5 MCPA	46.7	45.6	97.57	80-120
6 Dichloroprop	0.472	0.422	89.45	80-120
7 2,4-D	0.470	0.408	86.89	80-120
8 Pentachlorophenol	0.475	0.506	106.62	80-120
9 Silvex	0.475	0.498	104.88	80-120
10 2,4,5-T	0.474	0.506	106.71	80-120
11 2,4-DB	0.473	0.458	96.82	80-120
12 Dinoseb	0.472	0.497	105.31	80-120

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00061.D
Report Date: 11-Jul-2023 09:27

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00061.D
Lab Smp Id: HERB 0.5
Inj Date : 10-JUL-2023 11:53
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-1
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m
Meth Date : 10-Jul-2023 14:32 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 11:53   Cal File: 8QG00061.D
Als bottle: 2   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

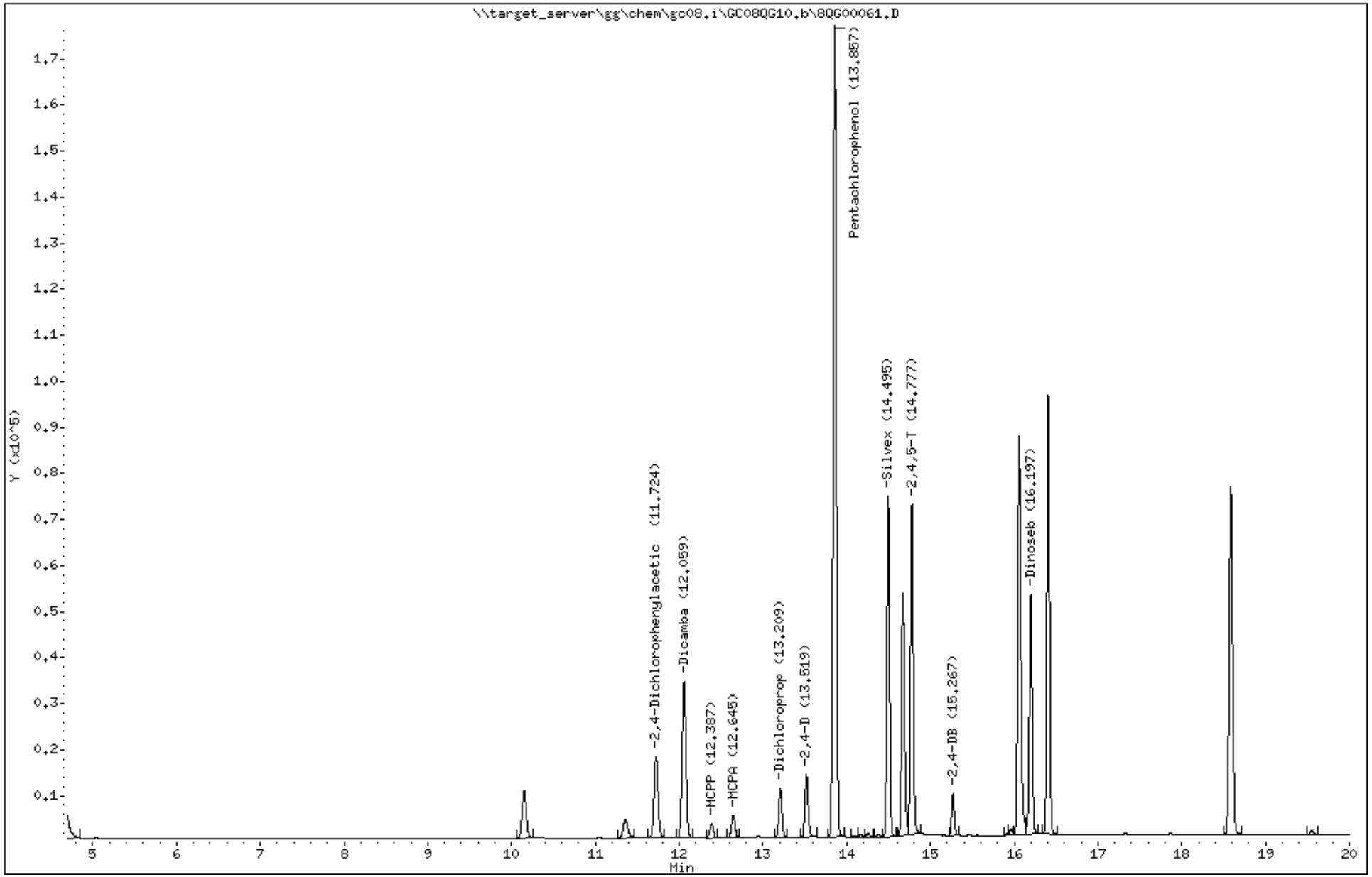
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.670	4.670	0.000	37094	0.50000	0.500(a)	
$ 2	2,4-Dichlorophenylacetic Acid	11.723	11.724	-0.001	17562	1.00000	1.00	
3	Dicamba	12.058	12.059	-0.001	33869	0.50000	0.500(a)	
4	MCPP	12.387	12.387	0.000	3044	50.0000	50.0(a)	
5	MCPA	12.645	12.645	0.000	4848	50.0000	50.0(a)	
6	Dichloroprop	13.208	13.209	-0.001	10670	0.50000	0.500(a)	
7	2,4-D	13.518	13.519	-0.001	13719	0.50000	0.500(a)	
8	Pentachlorophenol	13.857	13.857	0.000	472876	0.50000	0.500(a)	
9	Silvex	14.495	14.495	0.000	73775	0.50000	0.500(a)	
10	2,4,5-T	14.777	14.777	0.000	163557	0.50000	0.500(a)	
11	2,4-DB	15.267	15.267	0.000	9006	0.50000	0.500(a)	
12	Dinoseb	16.197	16.197	0.000	51910	0.50000	0.500(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00061.D
Date : 10-JUL-2023 11:53
Client ID:
Instrument: gc08.i
Sample Info: WG339228-1
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



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Data File: 8QG00061.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00061.D
Lab Smp Id: HERB 0.5
Inj Date : 10-JUL-2023 11:53
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-1
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m\HERB150.m
Meth Date : 10-Jul-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 11:53   Cal File: 8QG00061.D
Als bottle: 2   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

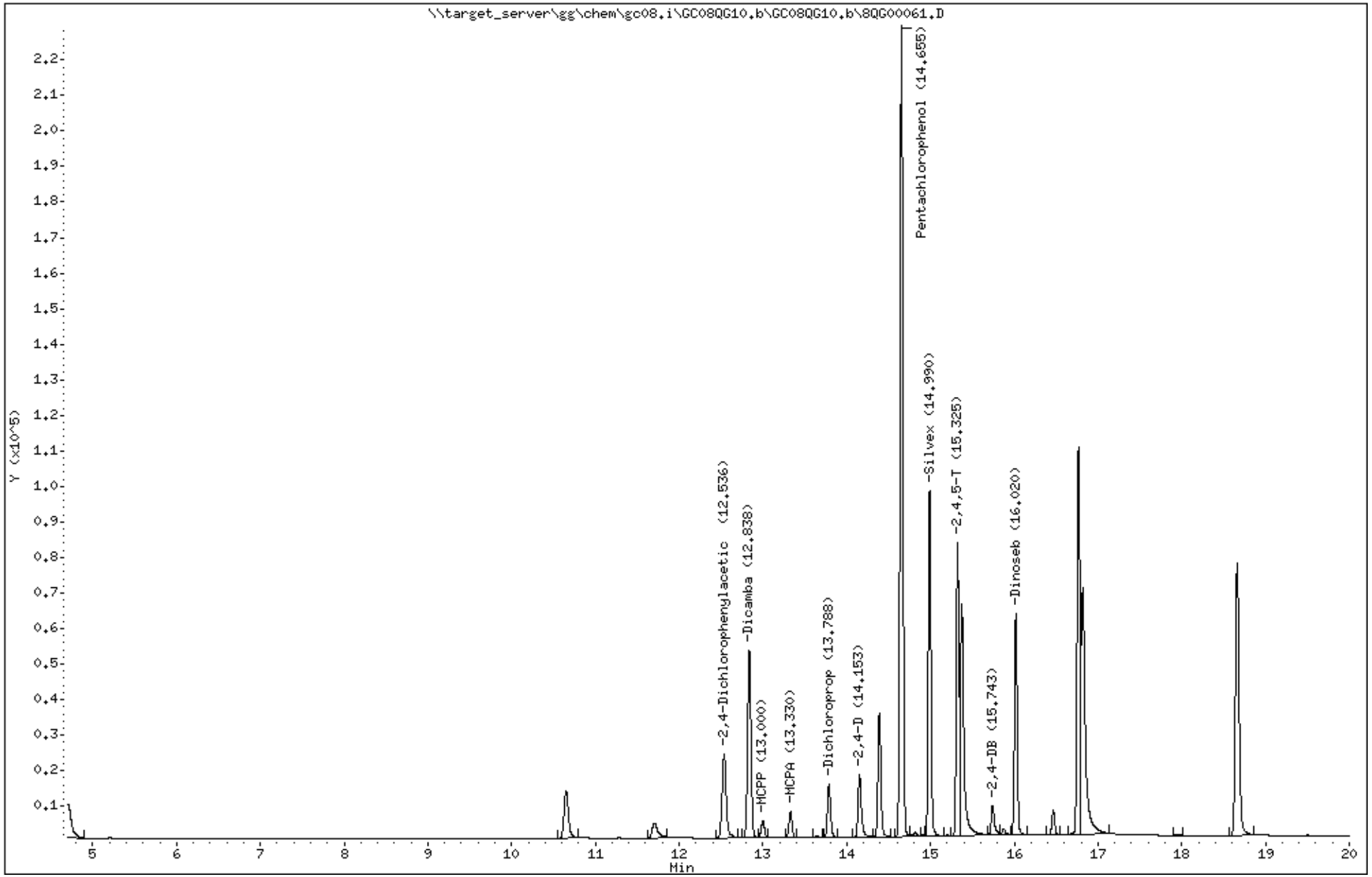
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.702	4.703	-0.001	9520	0.50000	0.500(a)	
$ 2	2,4-Dichlorophenylacetic Acid	12.536	12.536	0.000	23704	1.00000	1.00	
3	Dicamba	12.837	12.838	-0.001	52665	0.50000	0.500(a)	
4	MCPP	12.999	13.000	-0.001	12850	50.0000	50.0(a)	
5	MCPA	13.329	13.330	-0.001	19149	50.0000	50.0(a)	
6	Dichloroprop	13.787	13.788	-0.001	15130	0.50000	0.500(a)	
7	2,4-D	14.152	14.153	-0.001	17637	0.50000	0.500(a)	
8	Pentachlorophenol	14.654	14.655	-0.001	228314	0.50000	0.500(a)	
9	Silvex	14.989	14.990	-0.001	97150	0.50000	0.500(a)	
10	2,4,5-T	15.324	15.325	-0.001	82446	0.50000	0.500(a)	
11	2,4-DB	15.742	15.743	-0.001	8410	0.50000	0.500(a)	
12	Dinoseb	16.019	16.020	-0.001	62286	0.50000	0.500(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00061.D
Date : 10-JUL-2023 11:53
Client ID:
Instrument: gc08.i
Sample Info: WG339228-1
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00062.D
Report Date: 11-Jul-2023 09:27

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Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00062.D
Lab Smp Id: HERB 2.0
Inj Date : 10-JUL-2023 12:17
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-2
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m
Meth Date : 10-Jul-2023 14:32 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 12:17   Cal File: 8QG00062.D
Als bottle: 3   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

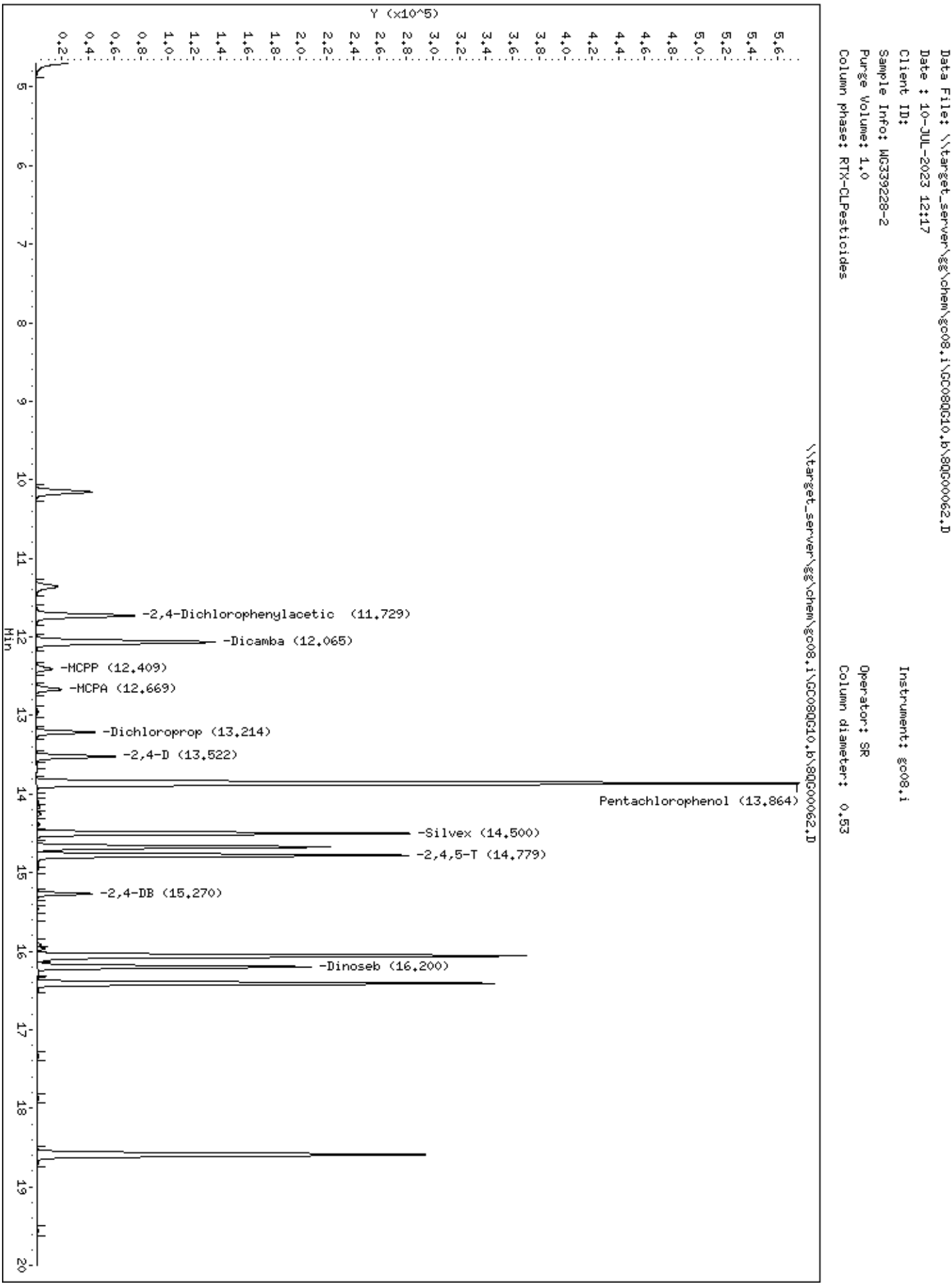
Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.675	4.670	0.005	162538	2.00000	2.09(aA)	
$ 2	2,4-Dichlorophenylacetic Acid	11.728	11.724	0.004	74126	4.00000	4.11(A)	
3	Dicamba	12.065	12.059	0.006	134860	2.00000	2.00(a)	
4	MCPP	12.408	12.387	0.021	12091	200.000	199	
5	MCPA	12.668	12.645	0.023	19203	200.000	199	
6	Dichloroprop	13.213	13.209	0.004	44534	2.00000	2.04(aA)	
7	2,4-D	13.522	13.519	0.003	59409	2.00000	2.08(aA)	
8	Pentachlorophenol	13.863	13.857	0.006	1659205	2.00000	1.87(aA)	
9	Silvex	14.500	14.495	0.005	281774	2.00000	1.95(a)	
10	2,4,5-T	14.778	14.777	0.001	664137	2.00000	2.02(aA)	
11	2,4-DB	15.270	15.267	0.003	41848	2.00000	2.15(aA)	
12	Dinoseb	16.200	16.197	0.003	206579	2.00000	1.99(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.


Data File: \\target_server\gs\chem\gc08.i\GC080G10.b\80G00062.D
Date : 10-JUL-2023 12:17
Client ID:
Sample Info: WG339228-2
Purge Volume: 1.0
Column phase: RTX-CLPesticides
Instrument: gc08.i
Operator: SR
Column diameter: 0.53
\\target_server\gs\chem\gc08.i\GC080G10.b\80G00062.D
Y (x10^5)
Min
-2,4-Dichlorophenylacetic (11.729)
-Dicamba (12.065)
-MCPP (12.409)
-MCPA (12.669)
-Dichloroprop (13.214)
-2,4-D (13.522)
Pentachlorophenol (13.864)
-Silvex (14.500)
-2,4,5-T (14.779)
-2,4-DB (15.270)
-Dinoseb (16.200)

Data File: 8QG00062.D
Report Date: 11-Jul-2023 09:28

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Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00062.D
Lab Smp Id: HERB 2.0
Inj Date : 10-JUL-2023 12:17
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-2
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m\HERB150.m
Meth Date : 10-Jul-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 12:17   Cal File: 8QG00062.D
Als bottle: 3   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

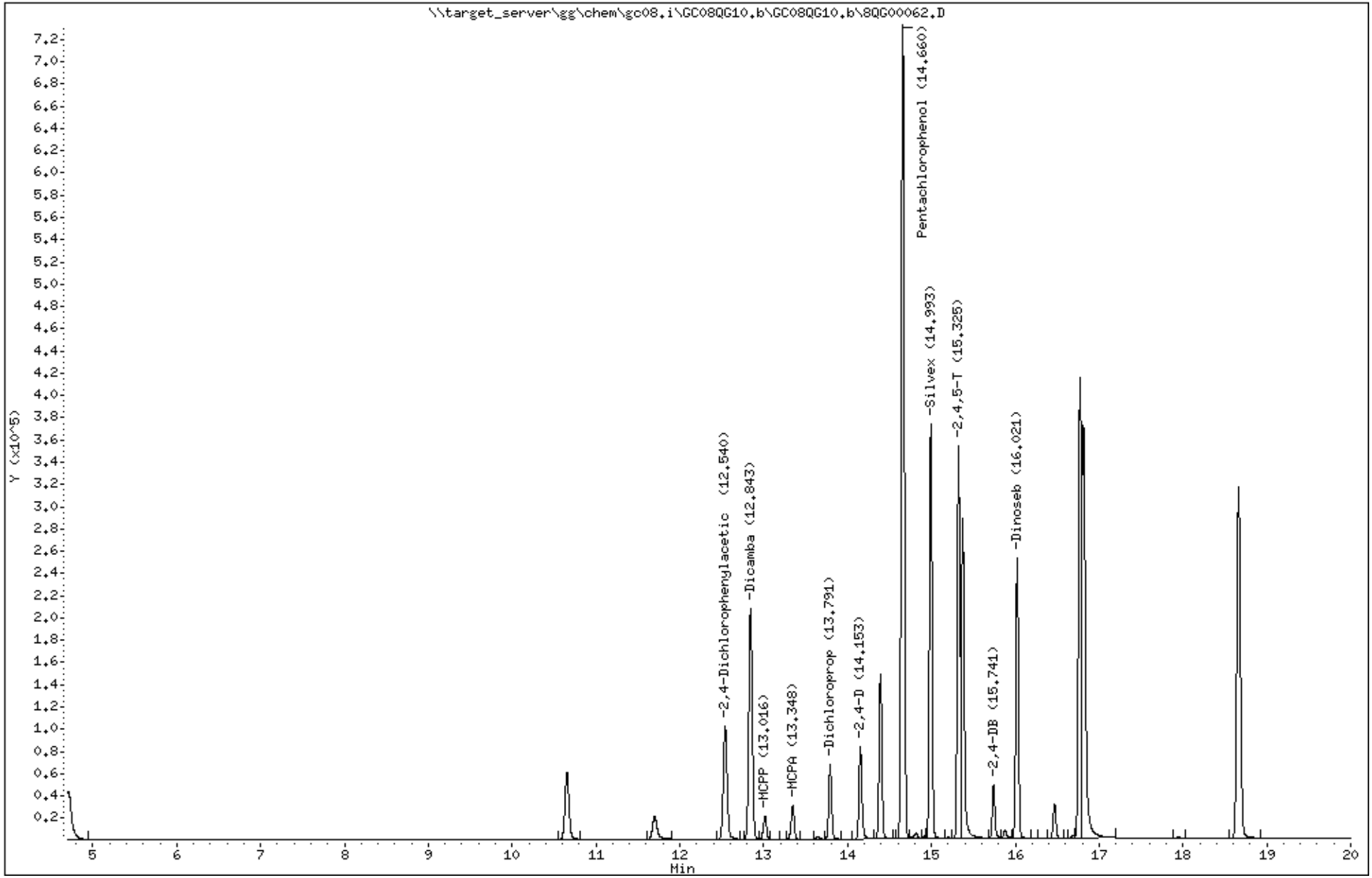
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.707	4.703	0.004	42585	2.00000	2.11(aA)	
$ 2	2,4-Dichlorophenylacetic Acid	12.539	12.536	0.003	102164	4.00000	4.15(A)	
3	Dicamba	12.842	12.838	0.004	206740	2.00000	1.98(a)	
4	MCPP	13.016	13.000	0.016	52969	200.000	203(A)	
5	MCPA	13.347	13.330	0.017	78032	200.000	202(A)	
6	Dichloroprop	13.791	13.788	0.003	66718	2.00000	2.10(aA)	
7	2,4-D	14.152	14.153	-0.001	83010	2.00000	2.16(aA)	
8	Pentachlorophenol	14.659	14.655	0.004	731727	2.00000	1.78(a)	
9	Silvex	14.992	14.990	0.002	372663	2.00000	1.96(a)	
10	2,4,5-T	15.324	15.325	-0.001	353230	2.00000	2.07(aA)	
11	2,4-DB	15.741	15.743	-0.002	47954	2.00000	2.02(aA)	
12	Dinoseb	16.021	16.020	0.001	252084	2.00000	2.01(aA)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00062.D
Date : 10-JUL-2023 12:17
Client ID:
Instrument: gc08.i
Sample Info: WG339228-2
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00063.D
Report Date: 11-Jul-2023 09:27

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00063.D
Lab Smp Id: HERB 1.0
Inj Date : 10-JUL-2023 12:42
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-3
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m
Meth Date : 10-Jul-2023 14:32 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 12:42   Cal File: 8QG00063.D
Als bottle: 4   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

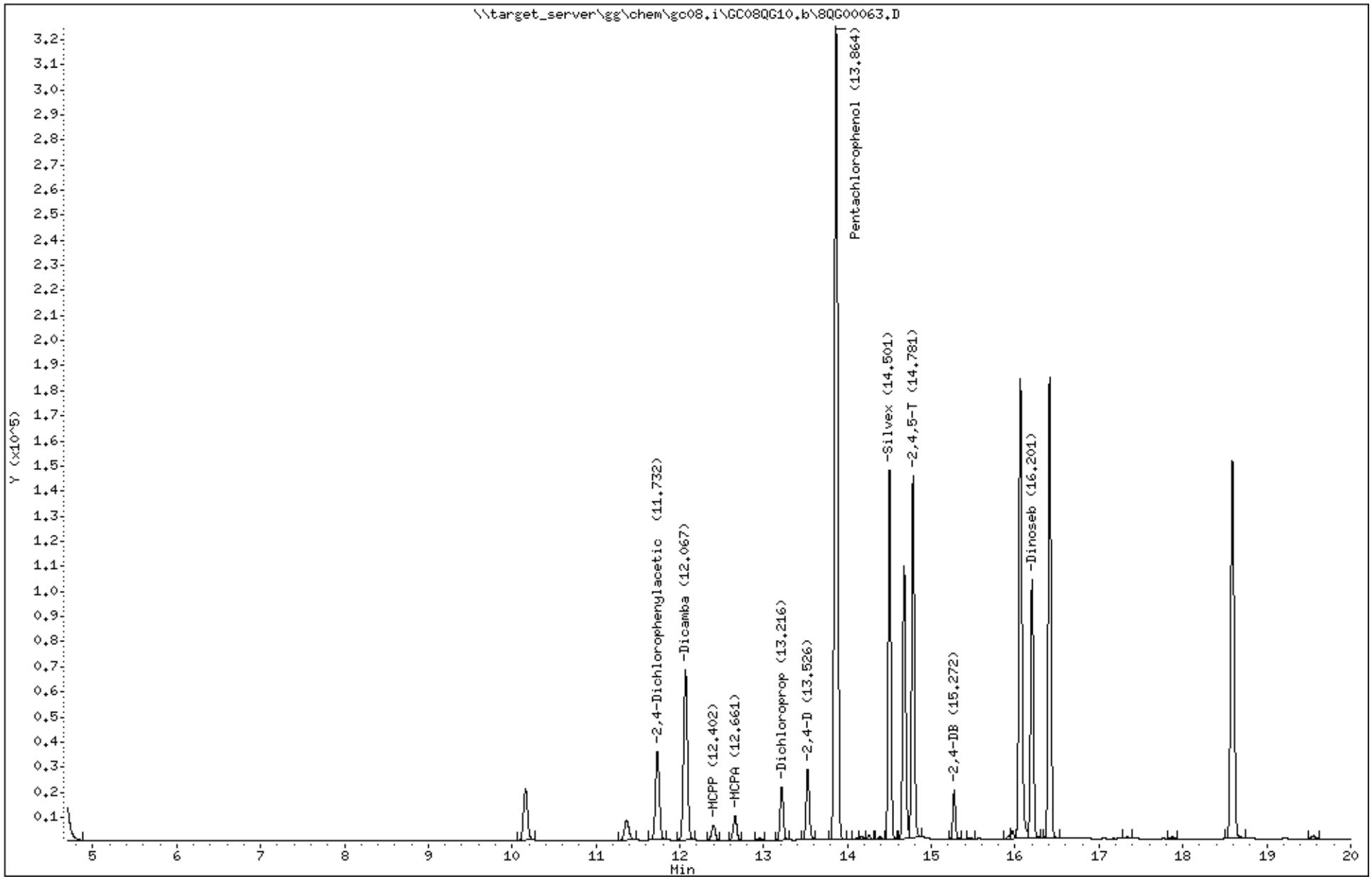
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.687	4.670	0.017	74381	1.00000	0.971(a)	
$ 2	2,4-Dichlorophenylacetic Acid	11.732	11.724	0.008	35238	2.00000	1.97	
3	Dicamba	12.067	12.059	0.008	67583	1.00000	1.000(a)	
4	MCPP	12.402	12.387	0.015	5955	100.000	98.8(a)	
5	MCPA	12.660	12.645	0.015	9471	100.000	98.8(a)	
6	Dichloroprop	13.215	13.209	0.006	21183	1.00000	0.981(a)	
7	2,4-D	13.525	13.519	0.006	28108	1.00000	0.989(a)	
8	Pentachlorophenol	13.863	13.857	0.006	898369	1.00000	1.01(aA)	
9	Silvex	14.500	14.495	0.005	147252	1.00000	1.01(a)	
10	2,4,5-T	14.780	14.777	0.003	331742	1.00000	1.00(a)	
11	2,4-DB	15.272	15.267	0.005	19388	1.00000	0.997(a)	
12	Dinoseb	16.200	16.197	0.003	102850	1.00000	0.995(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00063.D
Date : 10-JUL-2023 12:42
Client ID:
Instrument: gc08.i
Sample Info: WG339228-3
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



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Data File: 8QG00063.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00063.D
Lab Smp Id: HERB 1.0
Inj Date : 10-JUL-2023 12:42
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-3
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m\HERB150.m
Meth Date : 10-Jul-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 12:42   Cal File: 8QG00063.D
Als bottle: 4   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

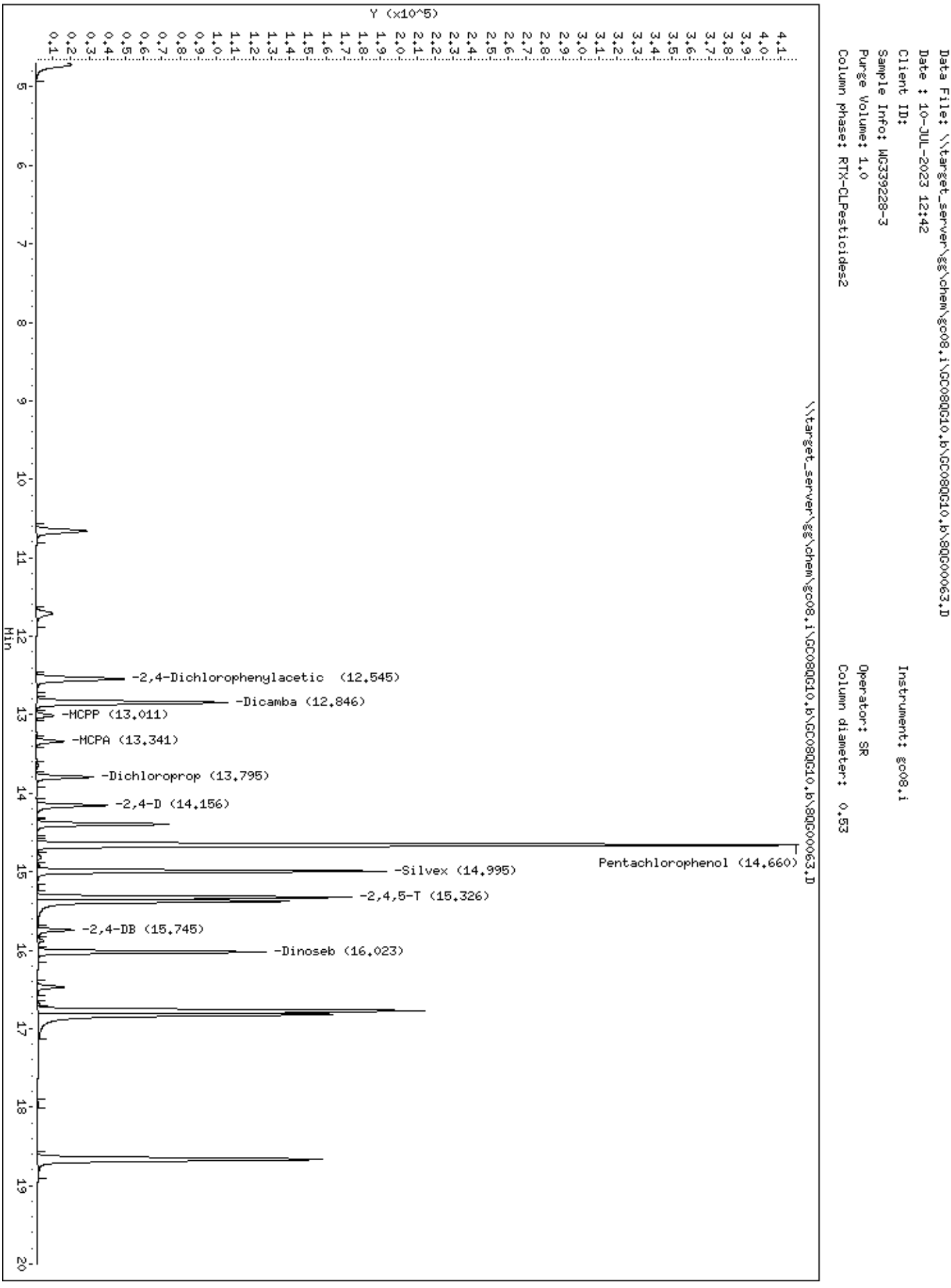
Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.718	4.703	0.015	19266	1.00000	0.970(a)	
$ 2	2,4-Dichlorophenylacetic Acid	12.544	12.536	0.008	48497	2.00000	1.98	
3	Dicamba	12.846	12.838	0.008	104794	1.00000	1.00(a)	
4	MCPP	13.011	13.000	0.011	25718	100.000	99.0(a)	
5	MCPA	13.341	13.330	0.011	37733	100.000	98.4(a)	
6	Dichloroprop	13.794	13.788	0.006	31344	1.00000	0.990(a)	
7	2,4-D	14.156	14.153	0.003	38828	1.00000	1.01(a)	
8	Pentachlorophenol	14.659	14.655	0.004	418100	1.00000	1.01(a)	
9	Silvex	14.994	14.990	0.004	191527	1.00000	1.00(a)	
10	2,4,5-T	15.326	15.325	0.001	172807	1.00000	1.01(a)	
11	2,4-DB	15.744	15.743	0.001	19726	1.00000	1.02(a)	
12	Dinoseb	16.023	16.020	0.003	125053	1.00000	0.999(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gc08.i\GC080G10.b\GC080G10.b\80G00063.D
Date : 10-JUL-2023 12:42
Client ID:
Sample Info: WG339228-3
Purge Volume: 1.0
Column phase: RTX-CLPesticides2
Instrument: gc08.i
Operator: SR
Column diameter: 0.53
\\target_server\gg\chem\gc08.i\GC080G10.b\GC080G10.b\80G00063.D
Y (x10^5)
Min
-2,4-Dichlorophenylacetic (12.545)
-Dicamba (12.846)
-MCPP (13.011)
-MCPA (13.341)
-Dichloroprop (13.795)
-2,4-D (14.156)
Pentachlorophenol (14.660)
-Silvex (14.995)
-2,4,5-T (15.326)
-2,4-DB (15.745)
-Dinoseb (16.023)

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00064.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00064.D
Lab Smp Id: HERB 0.75
Inj Date : 10-JUL-2023 13:07
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-4
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m
Meth Date : 10-Jul-2023 14:32 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:07   Cal File: 8QG00064.D
Als bottle: 5   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

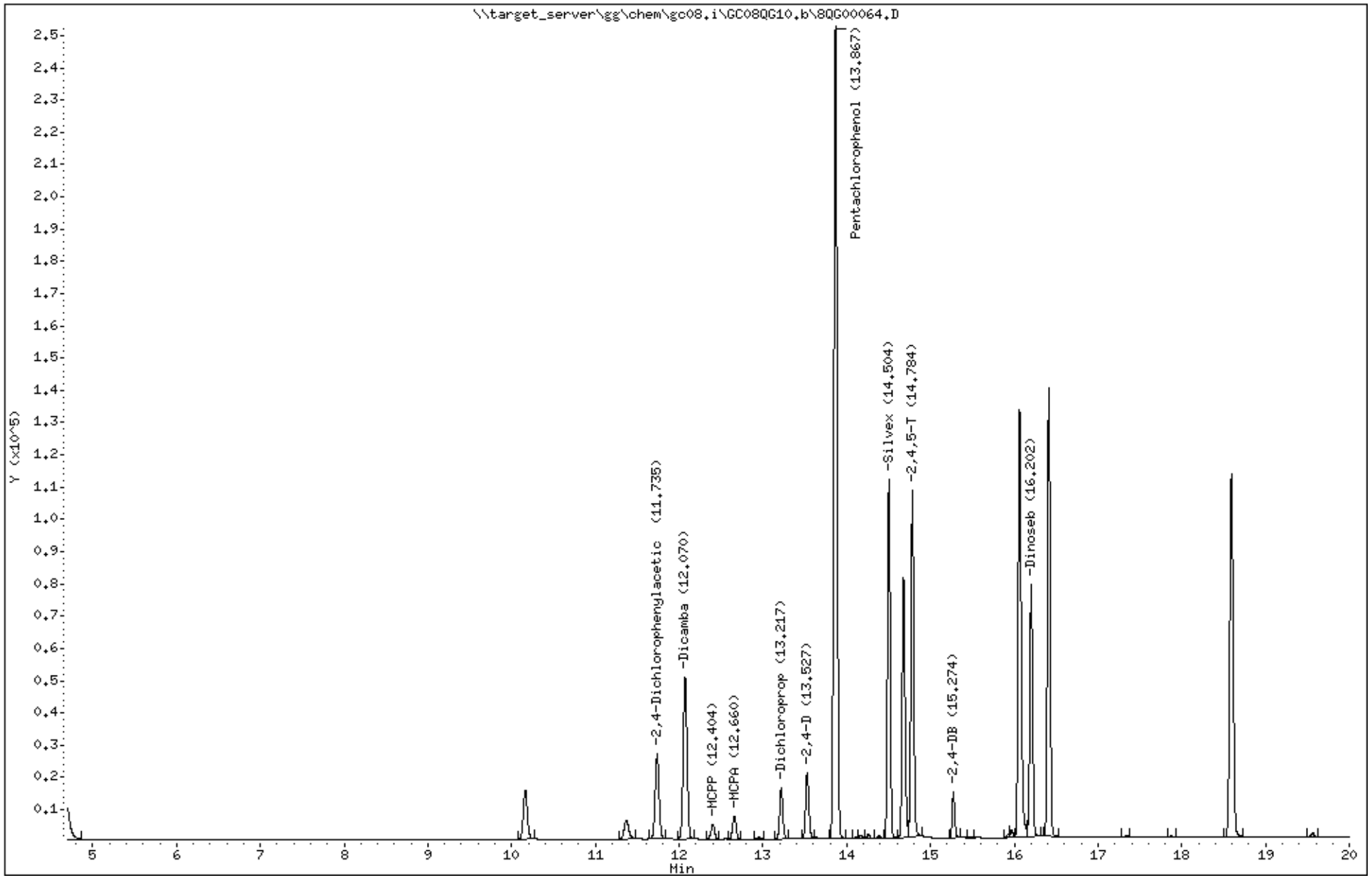
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.690	4.670	0.020	54819	0.75000	0.724(a)	
$ 2	2,4-Dichlorophenylacetic Acid	11.735	11.724	0.011	26221	1.50000	1.47	
3	Dicamba	12.070	12.059	0.011	50147	0.75000	0.744(a)	
4	MCPP	12.403	12.387	0.016	4520	75.0000	75.0(a)	
5	MCPA	12.660	12.645	0.015	7138	75.0000	74.6(a)	
6	Dichloroprop	13.216	13.209	0.007	15761	0.75000	0.735(a)	
7	2,4-D	13.526	13.519	0.007	20467	0.75000	0.727(a)	
8	Pentachlorophenol	13.866	13.857	0.009	688675	0.75000	0.767(a)	
9	Silvex	14.503	14.495	0.008	111270	0.75000	0.762(a)	
10	2,4,5-T	14.783	14.777	0.006	247874	0.75000	0.750(a)	
11	2,4-DB	15.273	15.267	0.006	13969	0.75000	0.726(a)	
12	Dinoseb	16.201	16.197	0.004	78032	0.75000	0.754(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00064.D
Date : 10-JUL-2023 13:07
Client ID:
Instrument: gc08.i
Sample Info: WG339228-4
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



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Data File: 8QG00064.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00064.D
Lab Smp Id: HERB 0.75
Inj Date : 10-JUL-2023 13:07
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-4
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m\HERB150.m
Meth Date : 10-Jul-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:07   Cal File: 8QG00064.D
Als bottle: 5   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

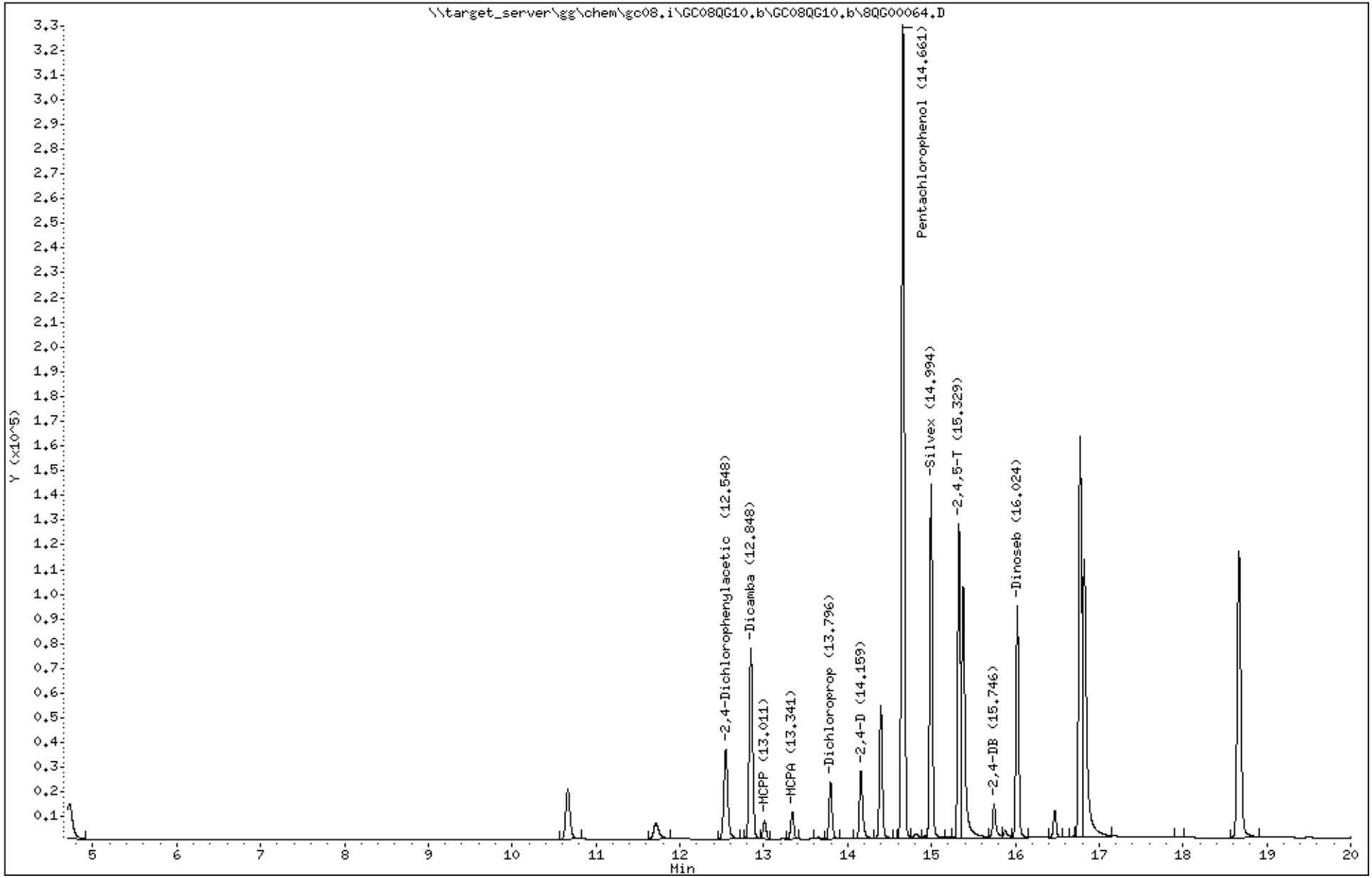
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
	1 Dalapon	4.722	4.703	0.019	13965	0.75000	0.724(a)	
$	2 2,4-Dichlorophenylacetic Acid	12.547	12.536	0.011	36104	1.50000	1.53	
	3 Dicamba	12.847	12.838	0.009	77281	0.75000	0.756(a)	
	4 MCPP	13.011	13.000	0.011	19153	75.0000	74.4(a)	
	5 MCPA	13.341	13.330	0.011	28257	75.0000	72.6(a)	
	6 Dichloroprop	13.796	13.788	0.008	22923	0.75000	0.745(a)	
	7 2,4-D	14.159	14.153	0.006	27574	0.75000	0.787(a)	
	8 Pentachlorophenol	14.661	14.655	0.006	328847	0.75000	0.761(a)	
	9 Silvex	14.994	14.990	0.004	142918	0.75000	0.782(a)	
	10 2,4,5-T	15.329	15.325	0.004	127115	0.75000	0.830(a)	
	11 2,4-DB	15.746	15.743	0.003	13782	0.75000	0.795(a)	
	12 Dinoseb	16.024	16.020	0.004	93526	0.75000	0.774(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00064.D
Date : 10-JUL-2023 13:07
Client ID:
Instrument: gc08.i
Sample Info: WG339228-4
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00065.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00065.D
Lab Smp Id: HERB 0.25
Inj Date : 10-JUL-2023 13:32
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-5
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m
Meth Date : 10-Jul-2023 14:32 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32   Cal File: 8QG00065.D
Als bottle: 6   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

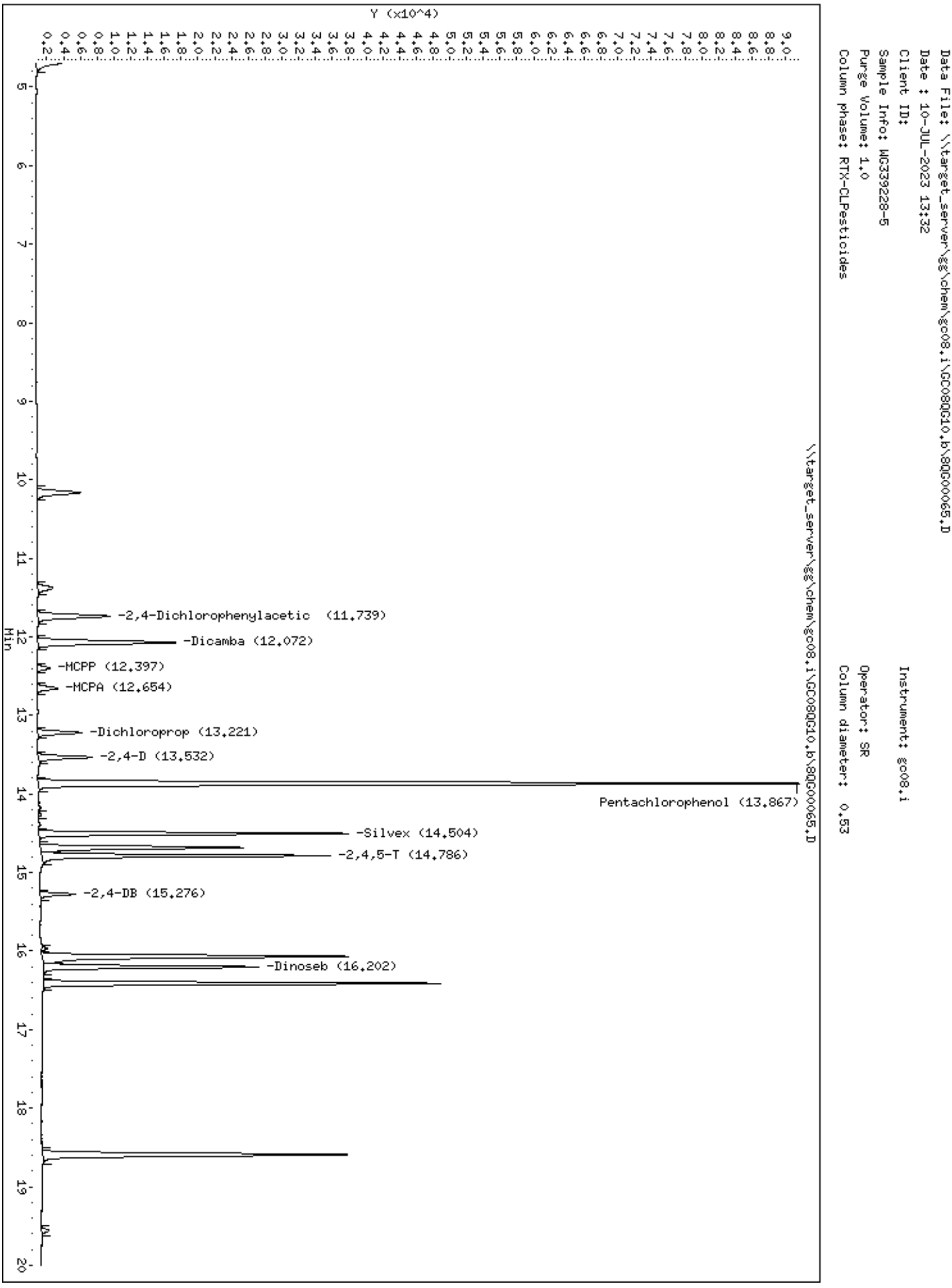
Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.683	4.670	0.013	17670	0.25000	0.240(a)	
$ 2	2,4-Dichlorophenylacetic Acid	11.738	11.724	0.014	8529	0.50000	0.486	
3	Dicamba	12.072	12.059	0.013	16445	0.25000	0.247(a)	
4	MCPP	12.397	12.387	0.010	1550	25.0000	25.5(a)	
5	MCPA	12.653	12.645	0.008	2485	25.0000	25.3(a)	
6	Dichloroprop	13.220	13.209	0.011	5304	0.25000	0.247(a)	
7	2,4-D	13.532	13.519	0.013	6497	0.25000	0.238(a)	
8	Pentachlorophenol	13.867	13.857	0.010	240040	0.25000	0.262(a)	
9	Silvex	14.503	14.495	0.008	36890	0.25000	0.255(a)	
10	2,4,5-T	14.785	14.777	0.008	81664	0.25000	0.248(a)	
11	2,4-DB	15.275	15.267	0.008	4124	0.25000	0.228(a)	
12	Dinoseb	16.202	16.197	0.005	25661	0.25000	0.250(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gs\chem\gc08.i\GC080C10.b\80C00065.D
Date : 10-JUL-2023 13:32
Client ID:
Sample Info: WG339228-5
Purge Volume: 1.0
Column phase: RTX-CLPesticides
Instrument: gc08.i
Operator: SR
Column diameter: 0.53
Y (x10^4)
Min
\\target_server\gs\chem\gc08.i\GC080C10.b\80C00065.D
-2,4-Dichlorophenylacetic (11.739)
-Dicamba (12.072)
-MCPP (12.397)
-MCPA (12.654)
-Dichloroprop (13.221)
-2,4-D (13.532)
Pentachlorophenol (13.867)
-Silvex (14.504)
-2,4,5-T (14.786)
-2,4-DB (15.276)
-Dinoseb (16.202)

Data File: 8QG00065.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00065.D
Lab Smp Id: HERB 0.25
Inj Date : 10-JUL-2023 13:32
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-5
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m\HERB150.m
Meth Date : 10-Jul-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32   Cal File: 8QG00065.D
Als bottle: 6   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

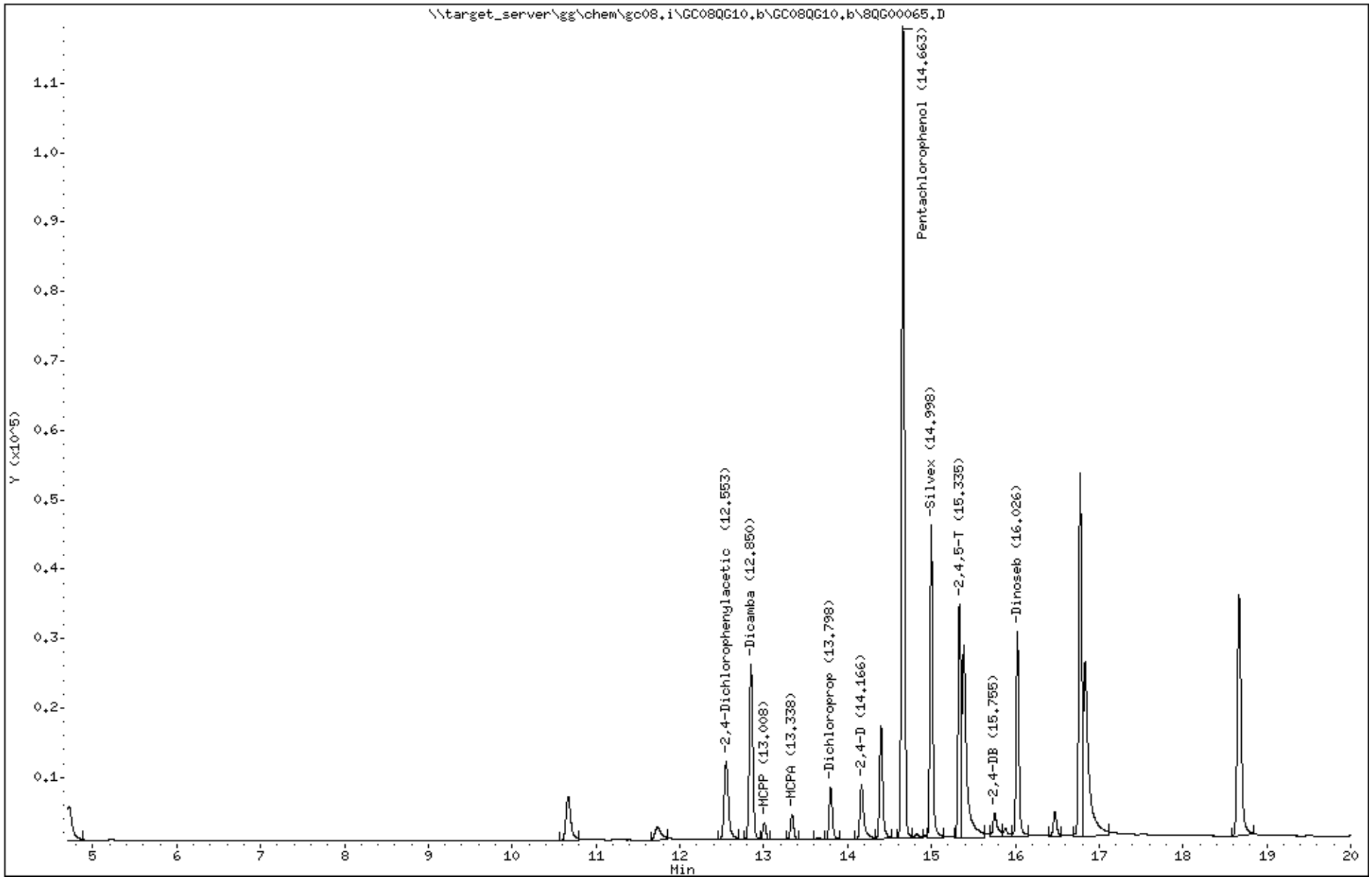
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.714	4.703	0.011	4876	0.25000	0.252(a)	
$ 2	2,4-Dichlorophenylacetic Acid	12.553	12.536	0.017	11371	0.50000	0.481	
3	Dicamba	12.849	12.838	0.011	25268	0.25000	0.247(a)	
4	MCPP	13.008	13.000	0.008	6453	25.0000	25.0(a)	
5	MCPA	13.338	13.330	0.008	9769	25.0000	25.1(a)	
6	Dichloroprop	13.798	13.788	0.010	7437	0.25000	0.242(a)	
7	2,4-D	14.166	14.153	0.013	7792	0.25000	0.222(a)	
8	Pentachlorophenol	14.663	14.655	0.008	117004	0.25000	0.271(a)	
9	Silvex	14.998	14.990	0.008	45019	0.25000	0.246(a)	
10	2,4,5-T	15.334	15.325	0.009	33650	0.25000	0.219(a)	
11	2,4-DB	15.754	15.743	0.011	3454	0.25000	0.197(a)	
12	Dinoseb	16.026	16.020	0.006	29531	0.25000	0.244(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00065.D
Date : 10-JUL-2023 13:32
Client ID:
Instrument: gc08.i
Sample Info: WG339228-5
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00066.D
Report Date: 11-Jul-2023 09:28

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Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00066.D
Lab Smp Id: HERB 0.1
Inj Date : 10-JUL-2023 13:57
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-6
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m
Meth Date : 10-Jul-2023 14:32 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:57   Cal File: 8QG00066.D
Als bottle: 7   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

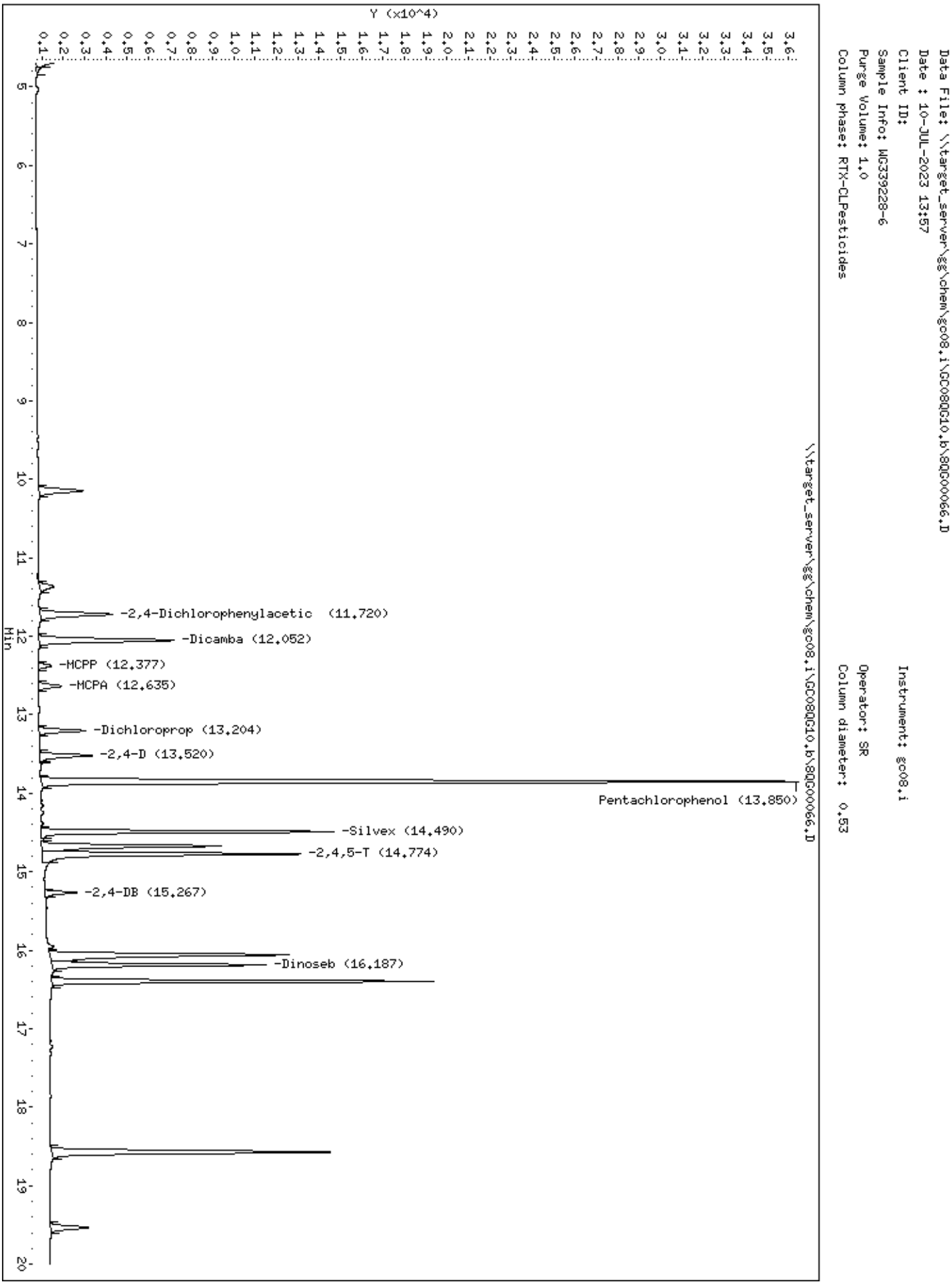
AD

9:41 am, Jul 11, 2023

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.665	4.670	-0.005	6896	0.10000	0.0927(aM)	M5
$ 2	2,4-Dichlorophenylacetic Acid	11.720	11.724	-0.004	3390	0.20000	0.192	
3	Dicamba	12.051	12.059	-0.008	6334	0.10000	0.0951(a)	
4	MCPP	12.376	12.387	-0.011	611	10.0000	10.1(a)	
5	MCPA	12.635	12.645	-0.010	1080	10.0000	11.0(a)	
6	Dichloroprop	13.203	13.209	-0.006	2165	0.10000	0.101(a)	
7	2,4-D	13.520	13.519	0.001	2492	0.10000	0.0906(aM)	M5
8	Pentachlorophenol	13.850	13.857	-0.007	93675	0.10000	0.103(a)	
9	Silvex	14.490	14.495	-0.005	13734	0.10000	0.0952(a)	
10	2,4,5-T	14.773	14.777	-0.004	33150	0.10000	0.100(a)	
11	2,4-DB	15.266	15.267	-0.001	1508	0.10000	0.0819(a)	
12	Dinoseb	16.186	16.197	-0.011	10019	0.10000	0.0974(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Data File: \\target_server\gs\chem\gc08.i\GC080G10.b\80G00066.D
Date : 10-JUL-2023 13:57
Client ID:
Sample Info: WG339228-6
Purge Volume: 1.0
Column phase: RTX-CLPesticides
Instrument: gc08.i
Operator: SR
Column diameter: 0.53
\\target_server\gs\chem\gc08.i\GC080G10.b\80G00066.D
Y (x10^4)
Min
-2,4-Dichlorophenylacetic (11.720)
-Dicamba (12.052)
-MCPP (12.377)
-MCPA (12.635)
-Dichloroprop (13.204)
-2,4-D (13.520)
Pentachlorophenol (13.850)
-Silvex (14.490)
-2,4,5-T (14.774)
-2,4-DB (15.267)
-Dinoseb (16.187)

Data File: 8QG00066.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00066.D
Lab Smp Id: HERB 0.1
Inj Date : 10-JUL-2023 13:57
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-6
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m\HERB150.m
Meth Date : 10-Jul-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:57   Cal File: 8QG00066.D
Als bottle: 7   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

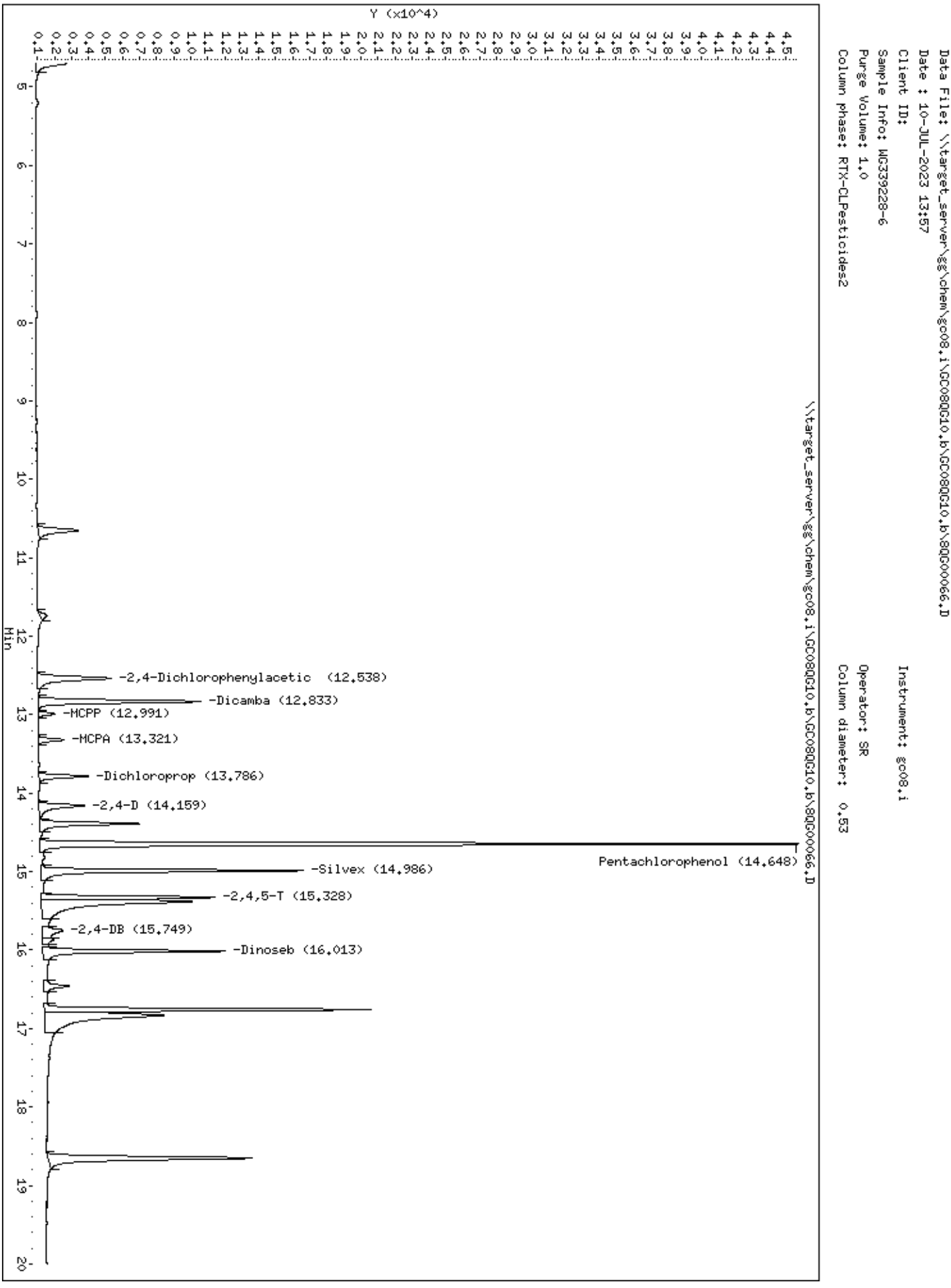


9:41 am, Jul 11, 2023

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.699	4.703	-0.004	1851	0.10000	0.0959(a)	
$ 2	2,4-Dichlorophenylacetic Acid	12.537	12.536	0.001	4301	0.20000	0.182	
3	Dicamba	12.832	12.838	-0.006	9579	0.10000	0.0937(a)	
4	MCPP	12.991	13.000	-0.009	2558	10.0000	9.94(a)	
5	MCPA	13.321	13.330	-0.009	4152	10.0000	10.7(a)	
6	Dichloroprop	13.786	13.788	-0.002	2925	0.10000	0.0951(a)	
7	2,4-D	14.159	14.153	0.006	2685	0.10000	0.0766(aM)	M5
8	Pentachlorophenol	14.647	14.655	-0.008	44567	0.10000	0.103(a)	
9	Silvex	14.986	14.990	-0.004	15393	0.10000	0.0843(a)	
10	2,4,5-T	15.327	15.325	0.002	10175	0.10000	0.0664(a)	
11	2,4-DB	15.749	15.743	0.006	1241	0.10000	0.0740(a)	
12	Dinoseb	16.012	16.020	-0.008	10703	0.10000	0.0887(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Data File: \\target_server\gg\chem\gc08.i\GC080G10.b\GC080G10.b\80G00066.D
Date : 10-JUL-2023 13:57
Client ID:
Sample Info: WG339228-6
Purge Volume: 1.0
Column phase: RTX-CLPesticides2
Instrument: gc08.i
Operator: SR
Column diameter: 0.53
Y (x10^4)
Min
-2,4-Dichlorophenylacetic (12.538)
-Dicamba (12.833)
-MCPP (12.991)
-MCPA (13.321)
-Dichloroprop (13.786)
-2,4-D (14.159)
Pentachlorophenol (14.648)
-Silvex (14.986)
-2,4,5-T (15.328)
-2,4-DB (15.749)
-Dinoseb (16.013)
\\target_server\gg\chem\gc08.i\GC080G10.b\GC080G10.b\80G00066.D

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00067.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00067.D
Lab Smp Id: HERB IND 0.5
Inj Date : 10-JUL-2023 14:22
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-7
Misc Info : WG339228,WG339228,WG339228-1,SQ2027-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m
Meth Date : 10-Jul-2023 14:32 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32   Cal File: 8QG00065.D
Als bottle: 8   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: IND.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

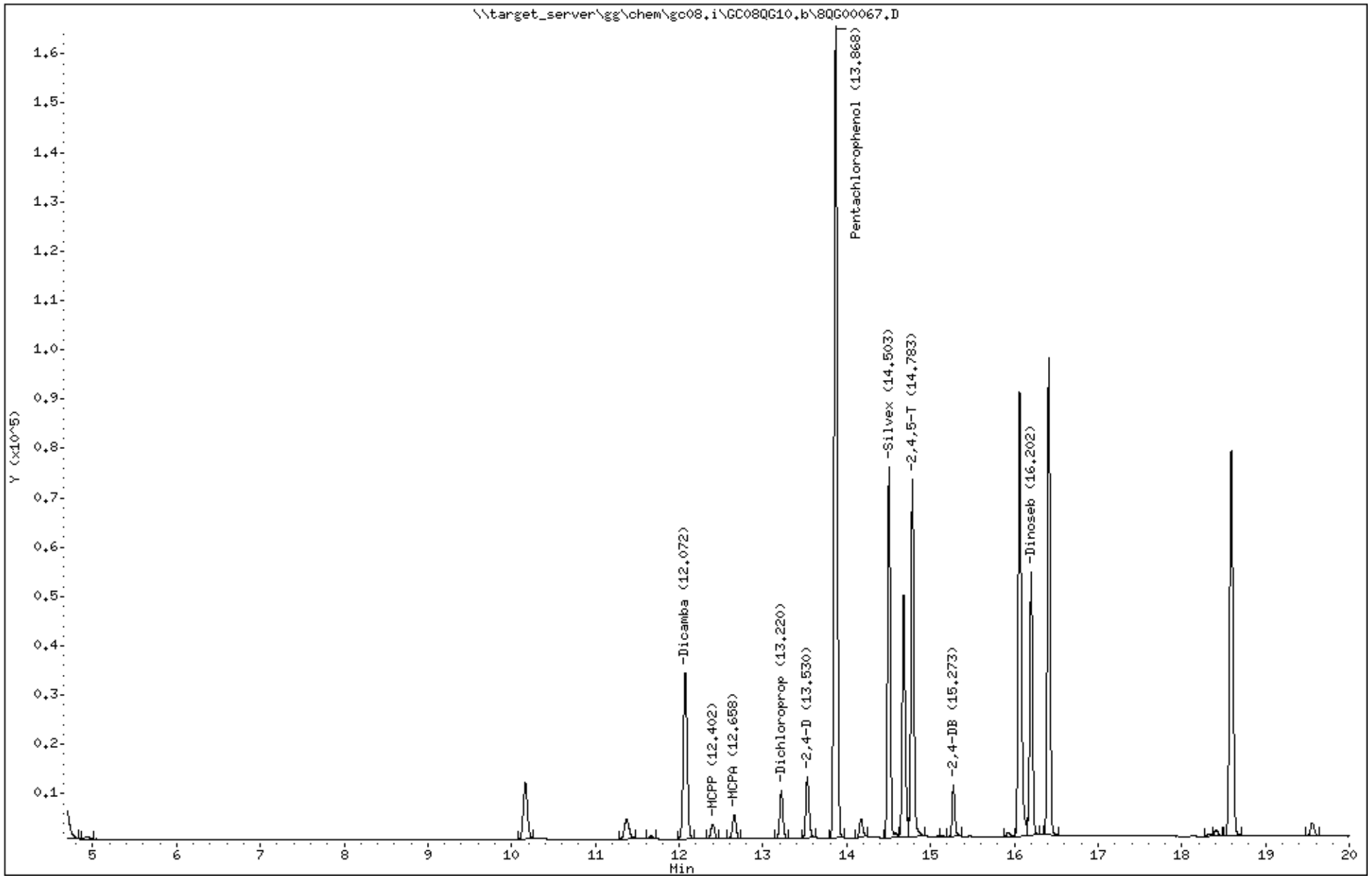
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1	Dalapon	4.681	4.670	0.011	31742	0.43033	0.392(a)	
3	Dicamba	12.071	12.059	0.012	33520	0.50440	0.500	
4	MCPP	12.401	12.387	0.014	3021	49.7623	46.7	
5	MCPA	12.658	12.645	0.013	4764	48.4263	45.3	
7	2,4-D	13.530	13.519	0.011	12402	0.45526	0.428	
8	Pentachlorophenol	13.868	13.857	0.011	432360	0.47262	0.449	
6	Dichloroprop	13.220	13.209	0.011	9662	0.45055	0.425	
9	Silvex	14.503	14.495	0.008	75177	0.51909	0.493	
10	2,4,5-T	14.783	14.777	0.006	171636	0.52022	0.493	
12	Dinoseb	16.201	16.197	0.004	53410	0.51952	0.491(a)	
11	2,4-DB	15.273	15.267	0.006	10501	0.58056	0.550	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00067.D
Date : 10-JUL-2023 14:22
Client ID:
Instrument: gc08.i
Sample Info: WG339228-7
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



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Data File: 8QG00067.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00067.D
Lab Smp Id: HERB IND 0.5
Inj Date : 10-JUL-2023 14:22
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-7
Misc Info : WG339228,WG339228,WG339228-1,SQ2027-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m\HERB150.m
Meth Date : 10-Jul-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32   Cal File: 8QG00065.D
Als bottle: 8   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: IND.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

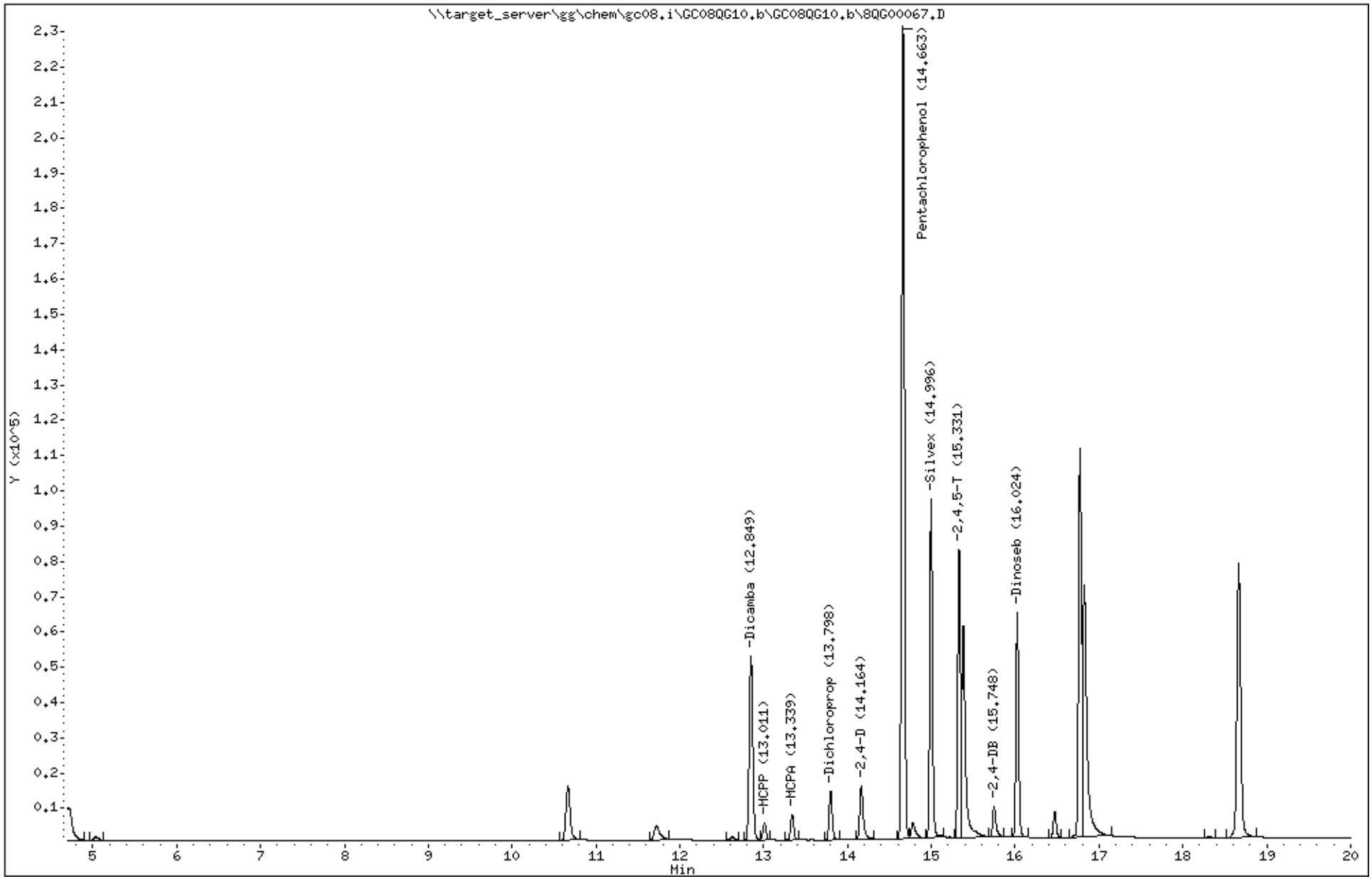
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1	Dalapon	4.712	4.703	0.009	9338	0.48203	0.439(a)	
3	Dicamba	12.849	12.838	0.011	52265	0.51123	0.507	
4	MCPP	13.010	13.000	0.010	12997	50.3656	47.3	
5	MCPA	13.339	13.330	0.009	18957	48.7496	45.6	
7	2,4-D	14.164	14.153	0.011	15228	0.43428	0.408	
8	Pentachlorophenol	14.662	14.655	0.007	230378	0.53313	0.506	
6	Dichloroprop	13.797	13.788	0.009	13760	0.44742	0.422	
9	Silvex	14.995	14.990	0.005	95796	0.52409	0.498	
10	2,4,5-T	15.330	15.325	0.005	81831	0.53359	0.506	
12	Dinoseb	16.024	16.020	0.004	63614	0.52608	0.497(a)	
11	2,4-DB	15.747	15.743	0.004	8572	0.48372	0.458	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00067.D
Date : 10-JUL-2023 14:22
Client ID:
Instrument: gc08.i
Sample Info: WG339228-7
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 504 of 681

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343780-1
Analytical Date: 10/11/23 13:58
Lab File ID: 8QJ00283.D
Instrument ID: GC08
Initial Calibration Date(s): 07/10/23 11:53 07/10/23 13:57
Column ID: A

Compound	RRF/Amount	RF0.500	CCAL RRF0.500	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
2,4-D	27241	30922	30922	0.010	13.51145	20.000	Averaged	
Silvex	144825	170820	170820	0.010	17.94939	20.000	Averaged	
2,4-Dichlorophenylacetic Ac	17534	21121	21121	0.010	20.46064	20.000	Averaged	*

*** = Compound out of QC criteria**

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Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00283.D
Report Date: 19-Oct-2023 11:19

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00283.D
Lab Smp Id: HERB 0.5
Inj Date : 11-OCT-2023 13:58
Operator : SR   Inst ID: gc08.i
Smp Info : WG343780-1
Misc Info : WG343780,WG343382,WG339228-1,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32   Cal File: 8QG00065.D
Als bottle: 4   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO4

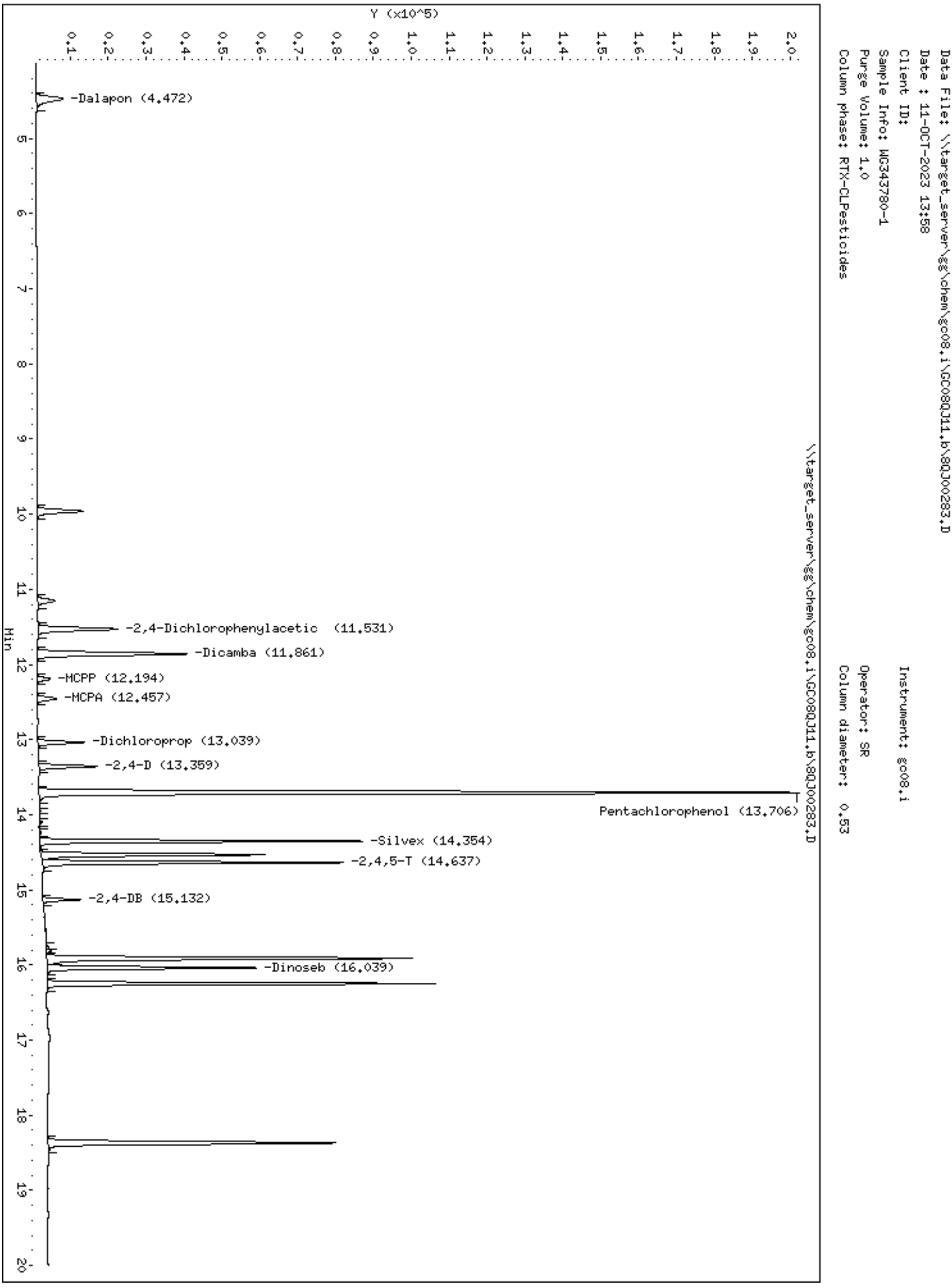
Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.472	4.522	-0.050	34870	0.50000	0.473(a)	
$ 2	2,4-Dichlorophenylacetic Acid	11.530	11.569	-0.039	21121	1.00000	1.20	
3	Dicamba	11.860	11.901	-0.041	39476	0.50000	0.594(a)	
4	MCPP	12.193	12.231	-0.038	3490	50.0000	57.5(a)	
5	MCPA	12.457	12.492	-0.035	5133	50.0000	52.2(a)	
6	Dichloroprop	13.038	13.072	-0.034	12190	0.50000	0.568(a)	
7	2,4-D	13.358	13.391	-0.033	15461	0.50000	0.568(a)	
8	Pentachlorophenol	13.705	13.734	-0.029	535123	0.50000	0.585(a)	
9	Silvex	14.353	14.381	-0.028	85410	0.50000	0.590(a)	
10	2,4,5-T	14.637	14.666	-0.029	177348	0.50000	0.538(a)	
11	2,4-DB	15.132	15.159	-0.027	9855	0.50000	0.545(a)	
12	Dinoseb	16.038	16.064	-0.026	55240	0.50000	0.537(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gs\chem\gc08.i\GC08QJ11.b\8QJ00283.D
Date : 11-OCT-2023 13:58
Client ID:
Sample Info: WG343780-1
Purge Volume: 1.0
Column phase: RTX-CLPesticides
Instrument: gc08.i
Operator: SR
Column diameter: 0.53
\\target_server\gs\chem\gc08.i\GC08QJ11.b\8QJ00283.D
Y (x10^5)
Min
-Dalapon (4.472)
-2,4-Dichlorophenylacetic (11.531)
-Dicamba (11.861)
-MCPP (12.194)
-MCPA (12.457)
-Dichloroprop (13.039)
-2,4-D (13.359)
Pentachlorophenol (13.706)
-Silvex (14.354)
-2,4,5-T (14.637)
-2,4-DB (15.132)
-Dinoseb (16.039)

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343780-1
Analytical Date: 10/11/23 13:58
Lab File ID: 8QJ00283.D
Instrument ID: GC08
Initial Calibration Date(s): 07/10/23 11:53 07/10/23 13:57
Column ID: B

Compound	RRF/Amount	RF0.500	CCAL RRF0.500	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
2,4-D	35065	39030	39030	0.010	11.30740	20.000	Averaged	
Silvex	182787	195320	195320	0.010	6.85663	20.000	Averaged	
2,4-Dichlorophenylacetic Ac	23635	26900	26900	0.010	13.81439	20.000	Averaged	

*** = Compound out of QC criteria**

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Data File: 8QJ00283.D
Report Date: 19-Oct-2023 11:20

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00283.D
Lab Smp Id: HERB 0.5
Inj Date : 11-OCT-2023 13:58
Operator : SR   Inst ID: gc08.i
Smp Info : WG343780-1
Misc Info : WG343780,WG343382,WG339228-1,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32   Cal File: 8QG00065.D
Als bottle: 4   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

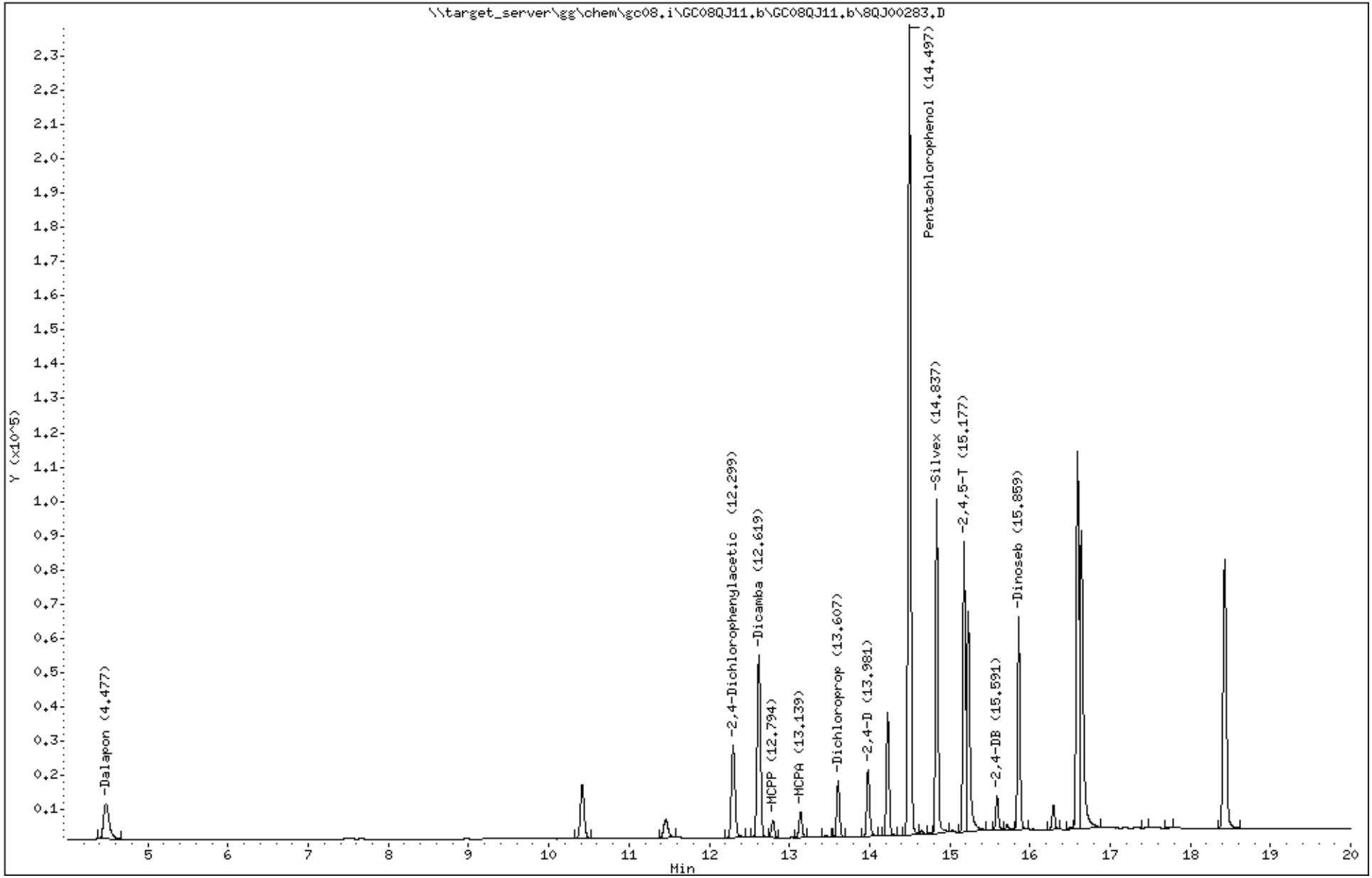
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
	1 Dalapon	4.477	4.541	-0.064	10310	0.50000	0.532(a)	
$	2 2,4-Dichlorophenylacetic Acid	12.299	12.371	-0.072	26900	1.00000	1.14	
	3 Dicamba	12.619	12.682	-0.063	53175	0.50000	0.520(a)	
	4 MCPP	12.794	12.854	-0.060	12994	50.0000	50.4(a)	
	5 MCPA	13.139	13.194	-0.055	19632	50.0000	50.5(a)	
	6 Dichloroprop	13.607	13.659	-0.052	16343	0.50000	0.531(a)	
	7 2,4-D	13.980	14.032	-0.052	19515	0.50000	0.556(a)	
	8 Pentachlorophenol	14.497	14.541	-0.044	236794	0.50000	0.548(a)	
	9 Silvex	14.837	14.881	-0.044	97660	0.50000	0.534(a)	
	10 2,4,5-T	15.177	15.224	-0.047	84690	0.50000	0.552(a)	
	11 2,4-DB	15.590	15.632	-0.042	9852	0.50000	0.551(a)	
	12 Dinoseb	15.859	15.901	-0.042	62211	0.50000	0.514(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00283.D
Date : 11-OCT-2023 13:58
Client ID:
Instrument: gc08.i
Sample Info: WG343780-1
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 510 of 681

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343780-2
Analytical Date: 10/11/23 22:05
Lab File ID: 8QJ00299.D
Instrument ID: GC08
Initial Calibration Date(s): 07/10/23 11:53 07/10/23 13:57
Column ID: A

Compound	RRF/Amount	RF0.250	CCAL RRF0.250	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
2,4-D	27241	27180	27180	0.010	-0.22505	20.000	Averaged	
Silvex	144825	149924	149924	0.010	3.52092	20.000	Averaged	
2,4-Dichlorophenylacetic Ac	17534	19220	19220	0.010	9.61856	20.000	Averaged	

*** = Compound out of QC criteria**

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Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00299.D
Report Date: 19-Oct-2023 11:19

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00299.D
Lab Smp Id: WG343780-2
Inj Date : 11-OCT-2023 22:05
Operator : SR   Inst ID: gc08.i
Smp Info : WG343780-2
Misc Info : WG343780,WG343382,WG339228-1,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32   Cal File: 8QG00065.D
Als bottle: 19   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: ORGANICS3

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

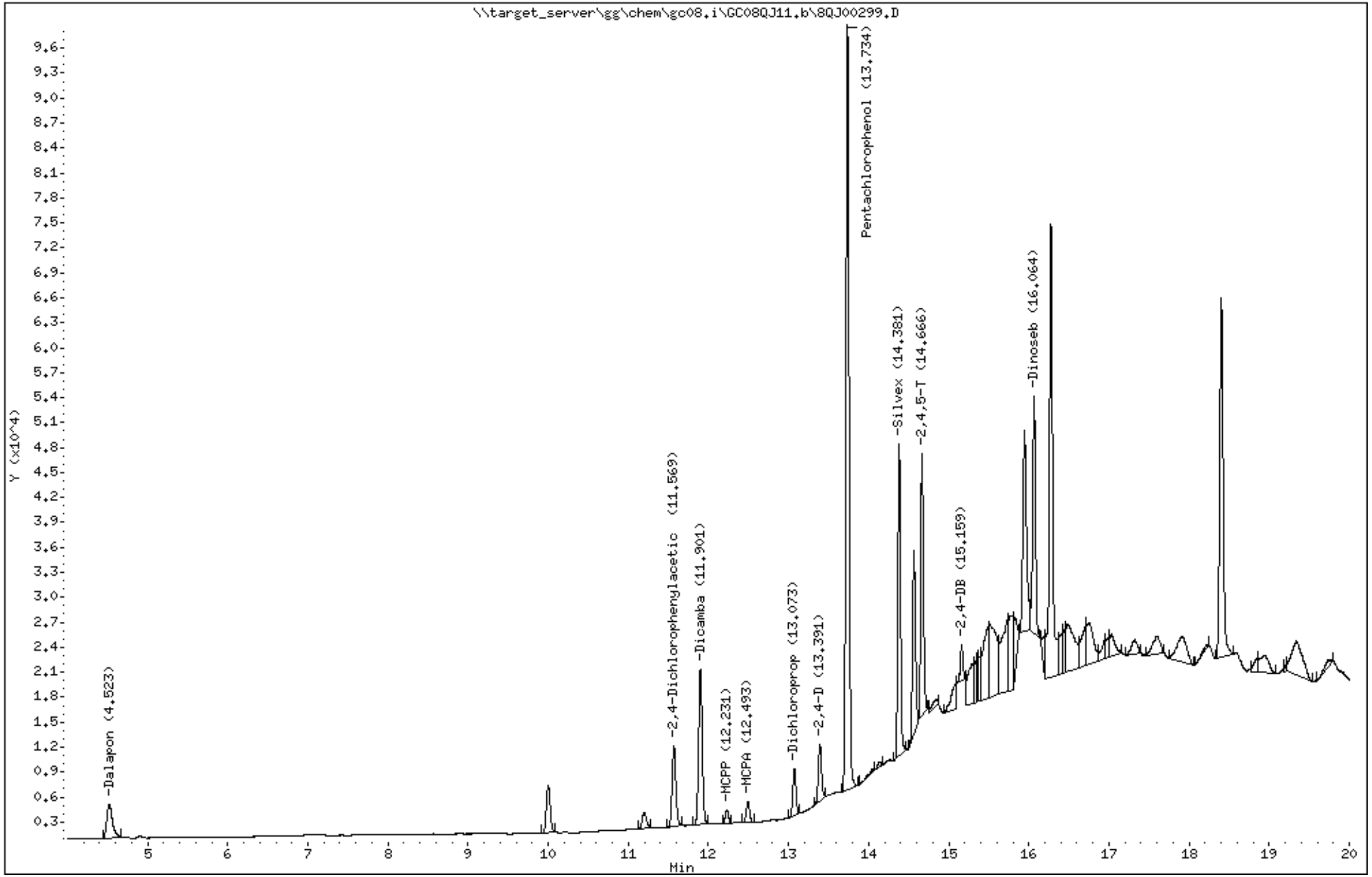
	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.522	4.522	0.000	19222	0.50000	0.260(a)	
$ 2	2,4-Dichlorophenylacetic Acid	11.569	11.569	0.000	9610	1.00000	0.548	
3	Dicamba	11.901	11.901	0.000	18683	0.50000	0.281(a)	
4	MCPP	12.231	12.231	0.000	1619	50.0000	26.7(a)	
5	MCPA	12.492	12.492	0.000	2459	50.0000	25.0(a)	
6	Dichloroprop	13.072	13.072	0.000	5610	0.50000	0.262(a)	
7	2,4-D	13.391	13.391	0.000	6795	0.50000	0.249(a)	
8	Pentachlorophenol	13.734	13.734	0.000	248942	0.50000	0.272(a)	
9	Silvex	14.381	14.381	0.000	37481	0.50000	0.259(a)	
10	2,4,5-T	14.666	14.666	0.000	73081	0.50000	0.222(aM)	M5
11	2,4-DB	15.159	15.159	0.000	4240	0.50000	0.234(aM)	M5
12	Dinoseb	16.064	16.064	0.000	28341	0.50000	0.276(aM)	M5

SR
11:56 am, Oct 19, 2023

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00299.D
Date : 11-OCT-2023 22:05
Client ID:
Instrument: gc08.i
Sample Info: WG343780-2
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 513 of 681

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5109
Lab ID: WG343780-2
Analytical Date: 10/11/23 22:05
Lab File ID: 8QJ00299.D
Instrument ID: GC08
Initial Calibration Date(s): 07/10/23 11:53 07/10/23 13:57
Column ID: B

Compound	RRF/Amount	RF0.250	CCAL RRF0.250	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
2,4-D	35065	30788	30788	0.010	-12.19749	20.000	Averaged	
Silvex	182787	150580	150580	0.010	-17.61995	20.000	Averaged	
2,4-Dichlorophenylacetic Ac	23635	25614	25614	0.010	8.37330	20.000	Averaged	

*** = Compound out of QC criteria**

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sales@katahdinlab.com

Data File: 8QJ00299.D
Report Date: 19-Oct-2023 11:20

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00299.D
Lab Smp Id: WG343780-2
Inj Date : 11-OCT-2023 22:05
Operator : SR   Inst ID: gc08.i
Smp Info : WG343780-2
Misc Info : WG343780,WG343382,WG339228-1,SQ5109-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32   Cal File: 8QG00065.D
Als bottle: 19   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

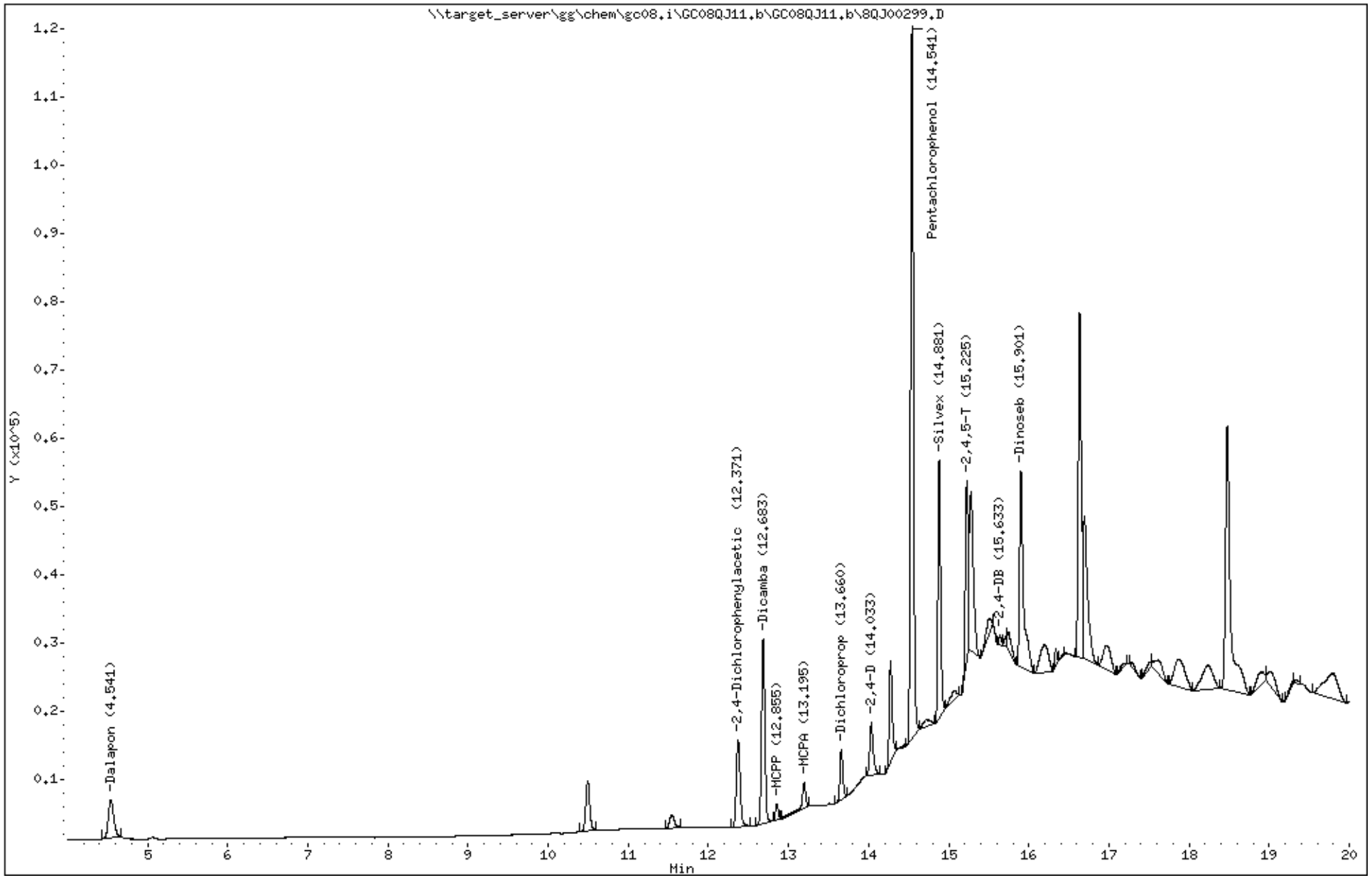
	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.541	4.541	0.000	5630	0.50000	0.291(a)	
$ 2	2,4-Dichlorophenylacetic Acid	12.371	12.371	0.000	12807	1.00000	0.542	
3	Dicamba	12.682	12.682	0.000	27090	0.50000	0.265(a)	
4	MCPP	12.854	12.854	0.000	5699	50.0000	22.1(a)	
5	MCPA	13.194	13.194	0.000	11355	50.0000	29.2(a)	
6	Dichloroprop	13.659	13.659	0.000	7339	0.50000	0.239(a)	
7	2,4-D	14.032	14.032	0.000	7697	0.50000	0.220(aM)	M5
8	Pentachlorophenol	14.541	14.541	0.000	104423	0.50000	0.242(a)	
9	Silvex	14.881	14.881	0.000	37645	0.50000	0.206(a)	
10	2,4,5-T	15.224	15.224	0.000	26663	0.50000	0.174(a)	
11	2,4-DB	15.632	15.632	0.000	1406	0.50000	0.0831(a)	
12	Dinoseb	15.901	15.901	0.000	28706	0.50000	0.237(a)	

SR
11:56 am, Oct 19, 2023

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00299.D
Date : 11-OCT-2023 22:05
Client ID:
Instrument: gc08.i
Sample Info: WG343780-2
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 516 of 681

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5109
Lab ID: WG343382-1
Client ID: Method Blank
Matrix: AQ
Lab File ID: 8QJ00284.D

Sample Date: N/A
Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: SW846 3510C
Lab Prep Batch: WG343382

Report Date: 19-OCT-23
Analysis Date: 11-OCT-23
Analyst: SR
Analysis Method: SW846 8151A
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
2,4-D	U	1.5	ug/L	1	3	3.0	0.75	1.5
Silvex	U	1.5	ug/L	1	3	3.0	0.75	1.5
2,4-Dichlorophenylacetic Acid		119.	%					

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Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00284.D
Report Date: 19-Oct-2023 10:54

Katahdin Analytical Services

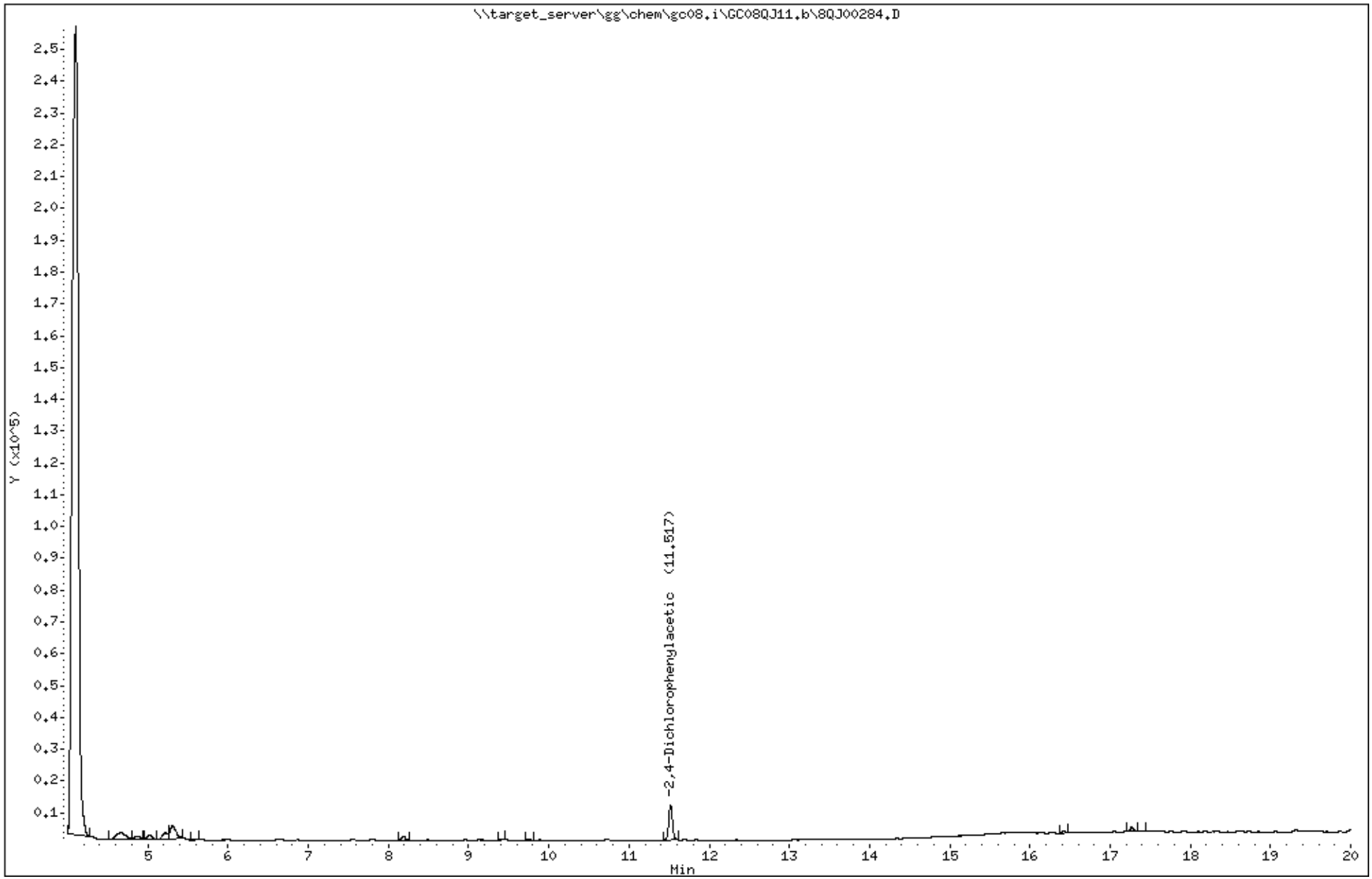
Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00284.D
Lab Smp Id: WG343382-1 Client Smp ID: WG343382-Blank
Inj Date : 11-OCT-2023 15:48
Operator : SR Inst ID: gc08.i
Smp Info : WG343382-1
Misc Info : WG343780,WG343382,WG339228-1,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	
Compounds	RT	EXP RT	DLT RT	RESPONSE				REVIEW CODE
$ 2 2,4-Dichlorophenylacetic Acid	11.517	11.569	-0.052	11107		0.63347	5.93	

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00284.D
Date : 11-OCT-2023 15:48
Client ID: WG343382-Blank
Instrument: gc08.i
Sample Info: WG343382-1
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



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Data File: 8QJ00284.D
Report Date: 19-Oct-2023 10:54

Katahdin Analytical Services

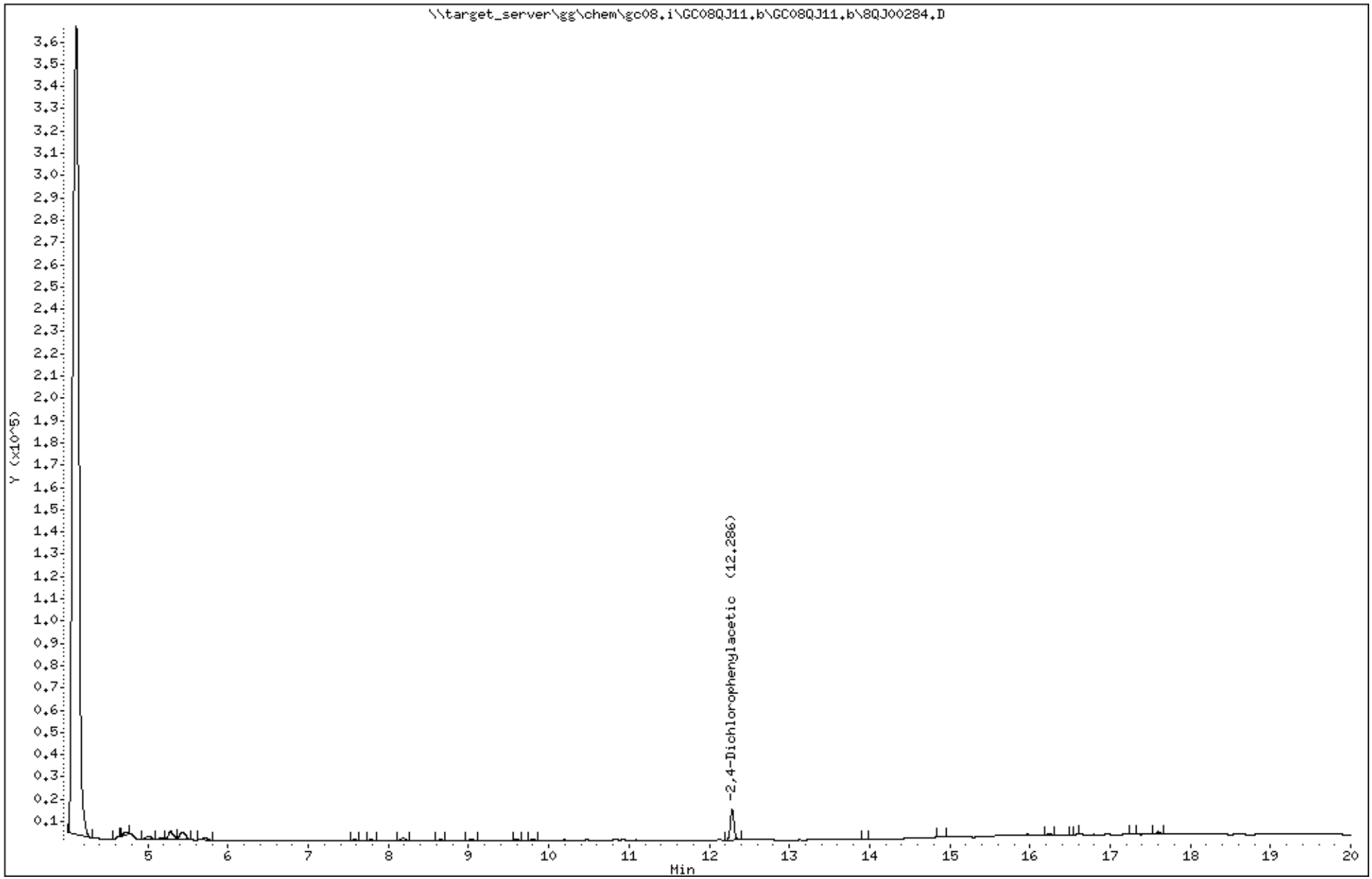
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Lab Smp Id: WG343382-1 Client Smp ID: WG343382-Blank
Inj Date : 11-OCT-2023 15:48
Operator : SR Inst ID: gc08.i
Smp Info : WG343382-1
Misc Info : WG343780,WG343382,WG339228-1,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	
Compounds		RT	EXP RT	DLT RT	RESPONSE			REVIEW CODE
$	2 2,4-Dichlorophenylacetic Acid	12.285	12.371	-0.086	13565	0.57394	5.37	

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00284.D
Date : 11-OCT-2023 15:48
Client ID: WG343382-Blank
Instrument: gc08.i
Sample Info: WG343382-1
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



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Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5109
Lab ID: WG343382-4
Client ID: TCLP Blank
Matrix: AQ
Lab File ID: 8QJ00287.D

Sample Date: N/A
Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: 3510C/1311
Lab Prep Batch: WG343382

Report Date: 19-OCT-23
Analysis Date: 11-OCT-23
Analyst: SR
Analysis Method: SW846 8151A
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
2,4-D	U	7.5	ug/L	1	3	15.	3.8	7.5
Silvex	U	7.5	ug/L	1	3	15.	3.8	7.5
2,4-Dichlorophenylacetic Acid		106.	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00287.D
Report Date: 19-Oct-2023 10:54

Katahdin Analytical Services

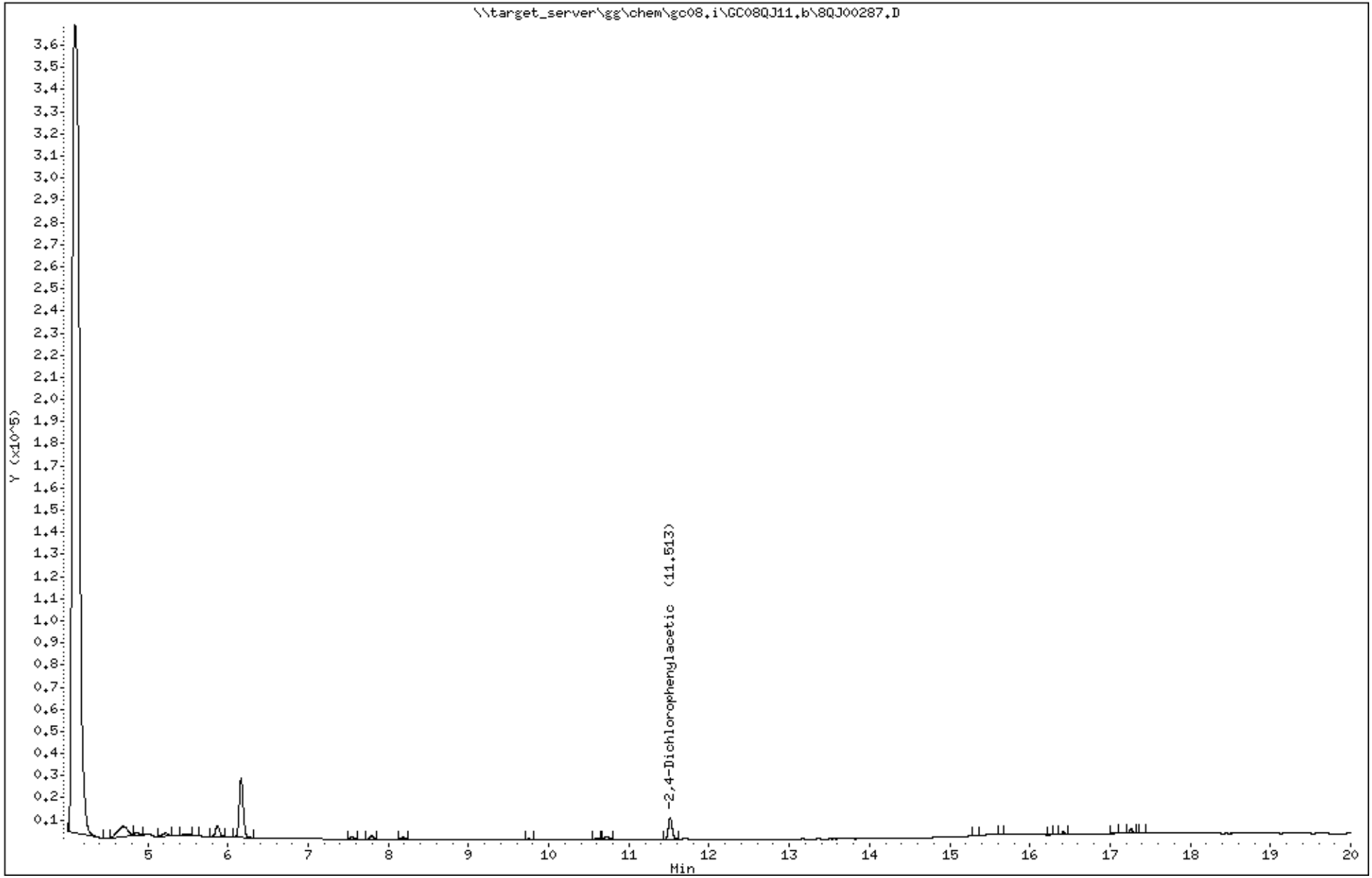
Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00287.D
Lab Smp Id: WG343382-4 Client Smp ID: WG343382-TclpBlank
Inj Date : 11-OCT-2023 17:03
Operator : SR Inst ID: gc08.i
Smp Info : WG343382-4
Misc Info : WG343780,WG343382,WG339228-1,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 8 QC Sample: TCLPBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	0.20000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	
Compounds	RT	EXP RT	DLT RT	RESPONSE				REVIEW CODE
$ 2 2,4-Dichlorophenylacetic Acid	11.512	11.569	-0.057	9971		0.56868	26.6	

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00287.D
Date : 11-OCT-2023 17:03
Client ID: WG343382-TclpBlank
Instrument: gc08.i
Sample Info: WG343382-4
Purge Volume: 0.2
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 525 of 681

Data File: 8QJ00287.D
Report Date: 19-Oct-2023 10:54

Katahdin Analytical Services

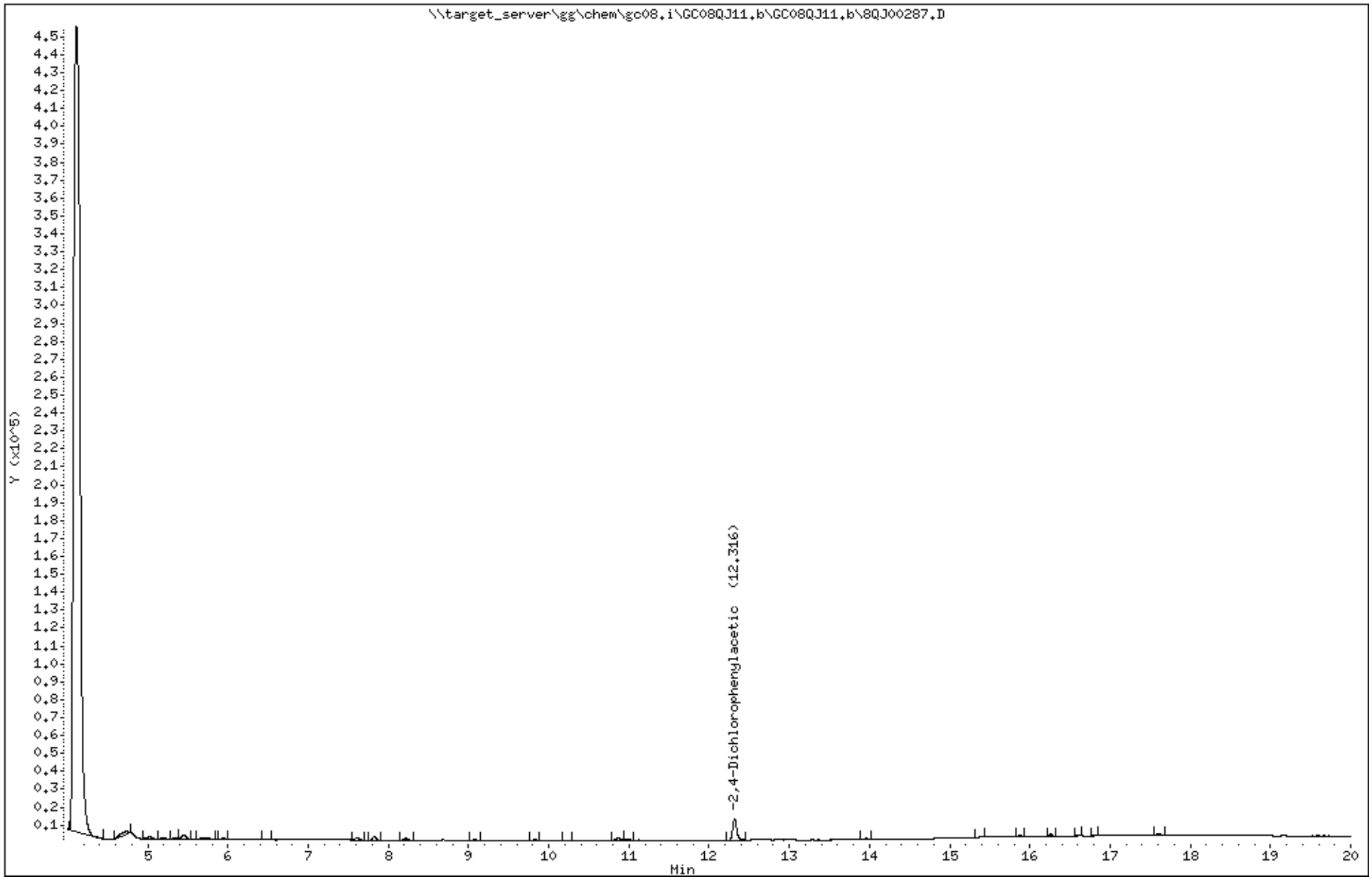
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Lab Smp Id: WG343382-4 Client Smp ID: WG343382-TclpBlank
Inj Date : 11-OCT-2023 17:03
Operator : SR Inst ID: gc08.i
Smp Info : WG343382-4
Misc Info : WG343780,WG343382,WG339228-1,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 8 QC Sample: TCLPBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	0.20000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	
Compounds	RT	EXP RT	DLT RT	RESPONSE				REVIEW CODE
$ 2 2,4-Dichlorophenylacetic Acid	12.316	12.371	-0.055	12193		0.51589	24.1	

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00287.D
Date : 11-OCT-2023 17:03
Client ID: WG343382-TclpBlank
Instrument: gc08.i
Sample Info: WG343382-4
Purge Volume: 0.2
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



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Katahdin
ANALYTICAL SERVICES

LCS/LCSD Recovery Report

LCS ID: WG343382-2
LCSD ID: WG343382-3
SDG: SQ5109
LCS File ID: 8QJ00285.D

Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: SW846 3510C
Lab Prep Batch: WG343382
LCSD File ID: 8QJ00286.D

Analysis Date: 11-OCT-23
Analyst: SR
Analysis Method: SW846 8151A
Matrix: AQ
Report Date: 19-OCT-23

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
2,4-D	5.00	5.71	114.	5.97	119.	ug/L	4	30	45-152
Silvex	5.00	6.08	122.	6.32	126.	ug/L	4	30	51-134
2,4-Dichlorophenylacetic Acid			115.		117.				32-138

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http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00285.D
Report Date: 19-Oct-2023 10:54

Katahdin Analytical Services

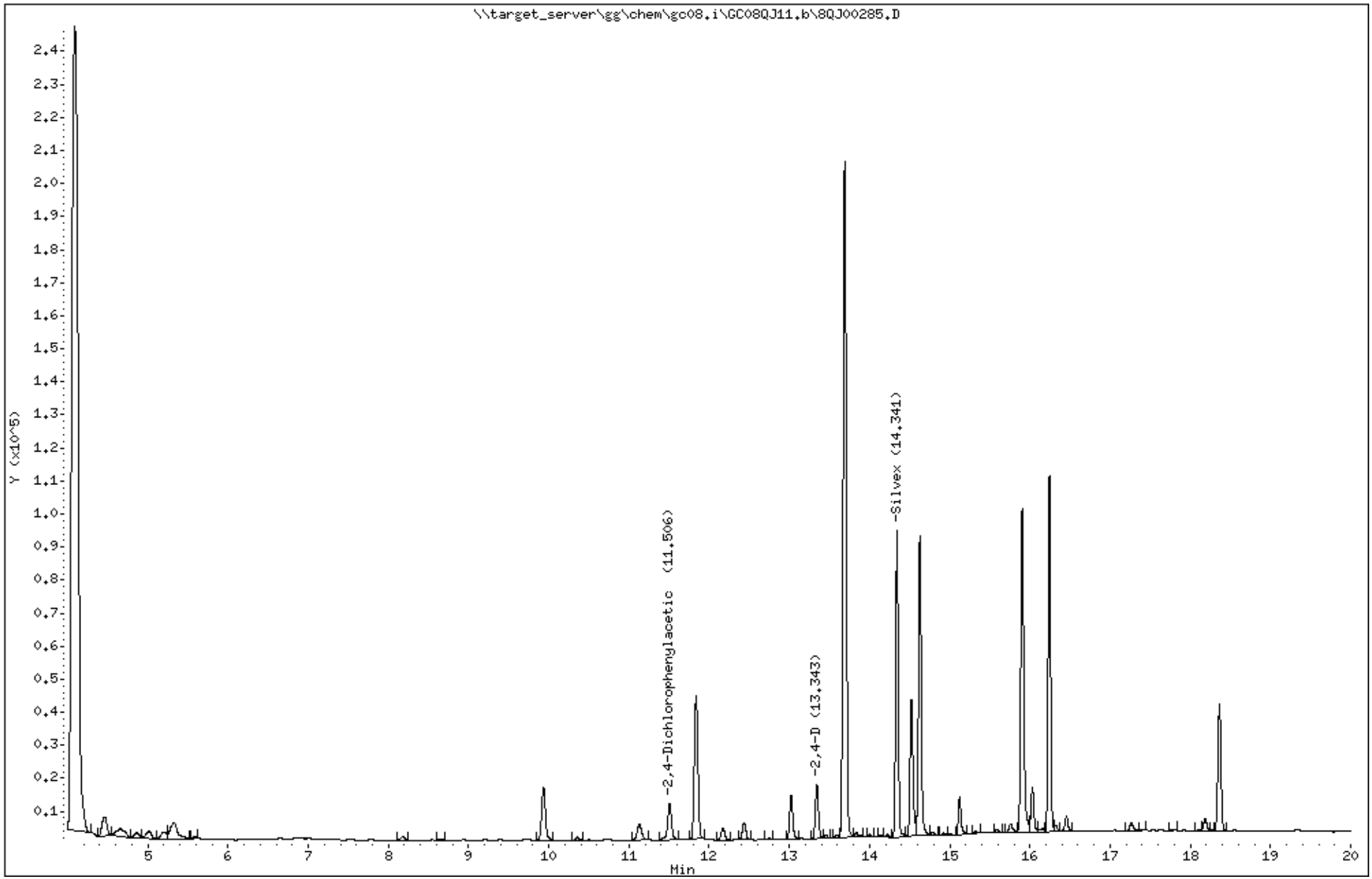
Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00285.D
Lab Smp Id: WG343382-2 Client Smp ID: WG343382-LCS
Inj Date : 11-OCT-2023 16:13
Operator : SR Inst ID: gc08.i
Smp Info : WG343382-2
Misc Info : WG343780,WG343382,WG339228-1,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$	2 2,4-Dichlorophenylacetic Acid	11.505	11.569	-0.064	10809	0.61648	5.77	
	7 2,4-D	13.342	13.391	-0.049	16545	0.60735	5.71	
	9 Silvex	14.340	14.381	-0.041	92713	0.64017	6.08	

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00285.D
Date : 11-OCT-2023 16:13
Client ID: WG343382-LCS
Instrument: gc08.i
Sample Info: WG343382-2
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 530 of 681

Data File: 8QJ00285.D
Report Date: 19-Oct-2023 10:54

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00285.D
Lab Smp Id: WG343382-2 Client Smp ID: WG343382-LCS
Inj Date : 11-OCT-2023 16:13
Operator : SR Inst ID: gc08.i
Smp Info : WG343382-2
Misc Info : WG343780,WG343382,WG339228-1,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

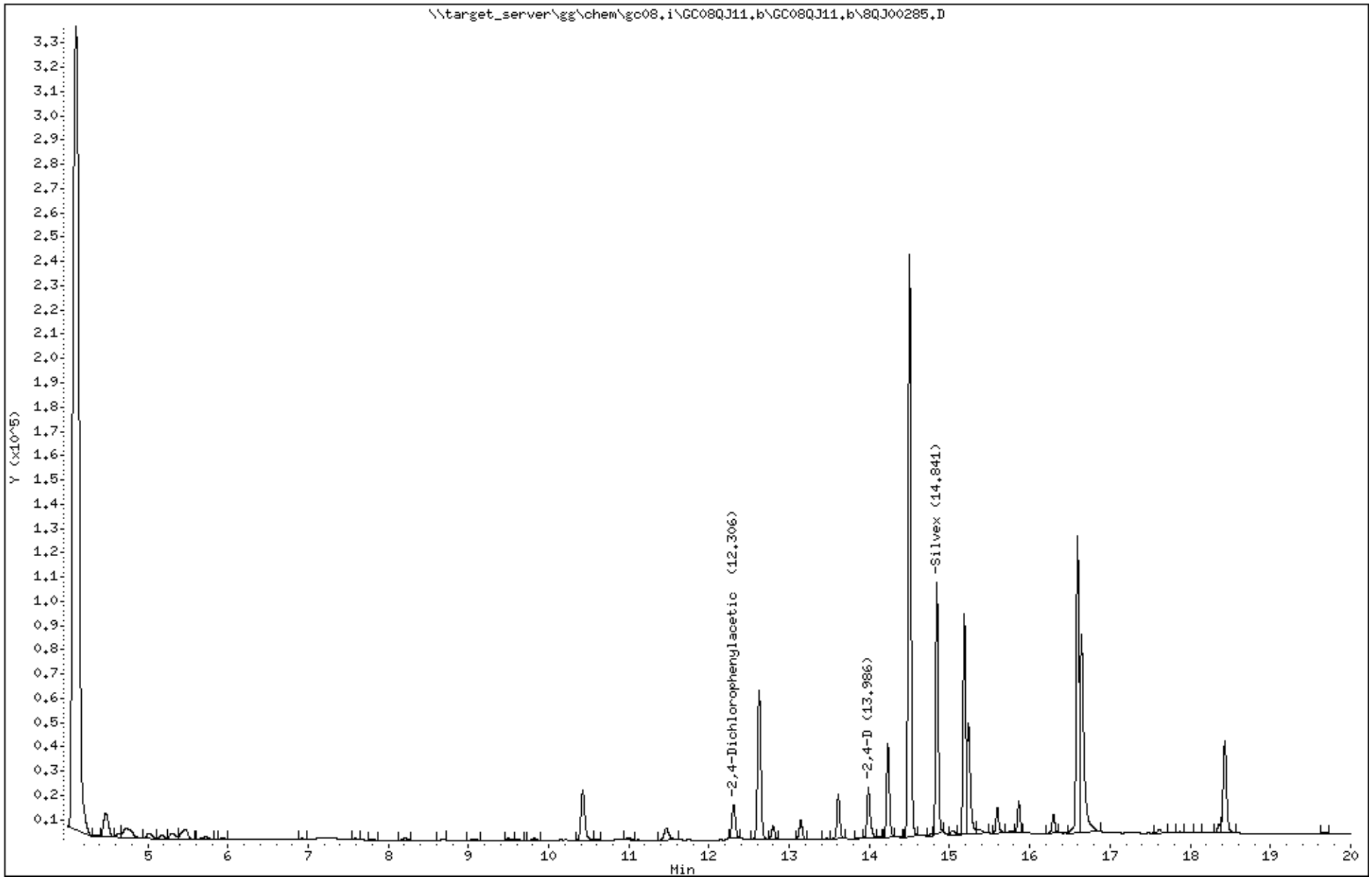
						CONCENTRATIONS		
						ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng/uL)	(ug/L)	REVIEW CODE
$ 2 2,4-Dichlorophenylacetic Acid	12.306	12.371	-0.065	13427	0.56810	5.32(M)	M7
7 2,4-D	13.986	14.032	-0.046	20840	0.59432	5.59	
9 Silvex	14.841	14.881	-0.040	103250	0.56487	5.37(M)	M5

SR
11:56 am, Oct 19, 2023

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00285.D
Date : 11-OCT-2023 16:13
Client ID: WG343382-LCS
Instrument: gc08.i
Sample Info: WG343382-2
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00286.D
Report Date: 19-Oct-2023 10:54

Katahdin Analytical Services

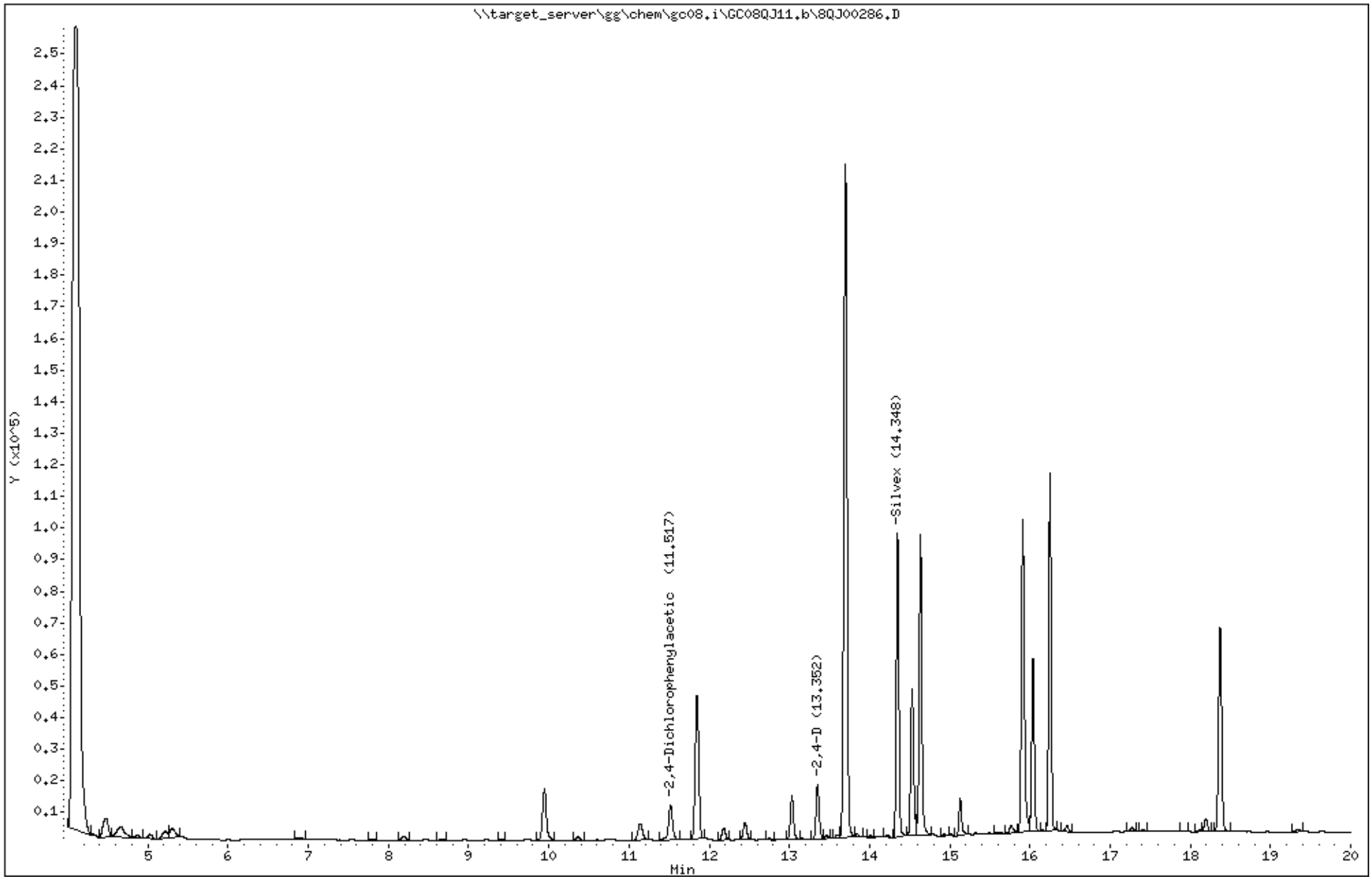
Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00286.D
Lab Smp Id: WG343382-3 Client Smp ID: WG343382-LCSD
Inj Date : 11-OCT-2023 16:38
Operator : SR Inst ID: gc08.i
Smp Info : WG343382-3
Misc Info : WG343780,WG343382,WG339228-1,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 7 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 2 2,4-Dichlorophenylacetic Acid	11.516	11.569	-0.053	10992	0.62691	5.87	
7 2,4-D	13.351	13.391	-0.040	17285	0.63451	5.97	
9 Silvex	14.348	14.381	-0.033	96250	0.66460	6.32	

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00286.D
Date : 11-OCT-2023 16:38
Client ID: WG343382-LCSD
Instrument: gc08.i
Sample Info: WG343382-3
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 534 of 681

Data File: 8QJ00286.D
Report Date: 19-Oct-2023 10:54

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00286.D
Lab Smp Id: WG343382-3 Client Smp ID: WG343382-LCSD
Inj Date : 11-OCT-2023 16:38
Operator : SR Inst ID: gc08.i
Smp Info : WG343382-3
Misc Info : WG343780,WG343382,WG339228-1,SQ5109-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 7 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

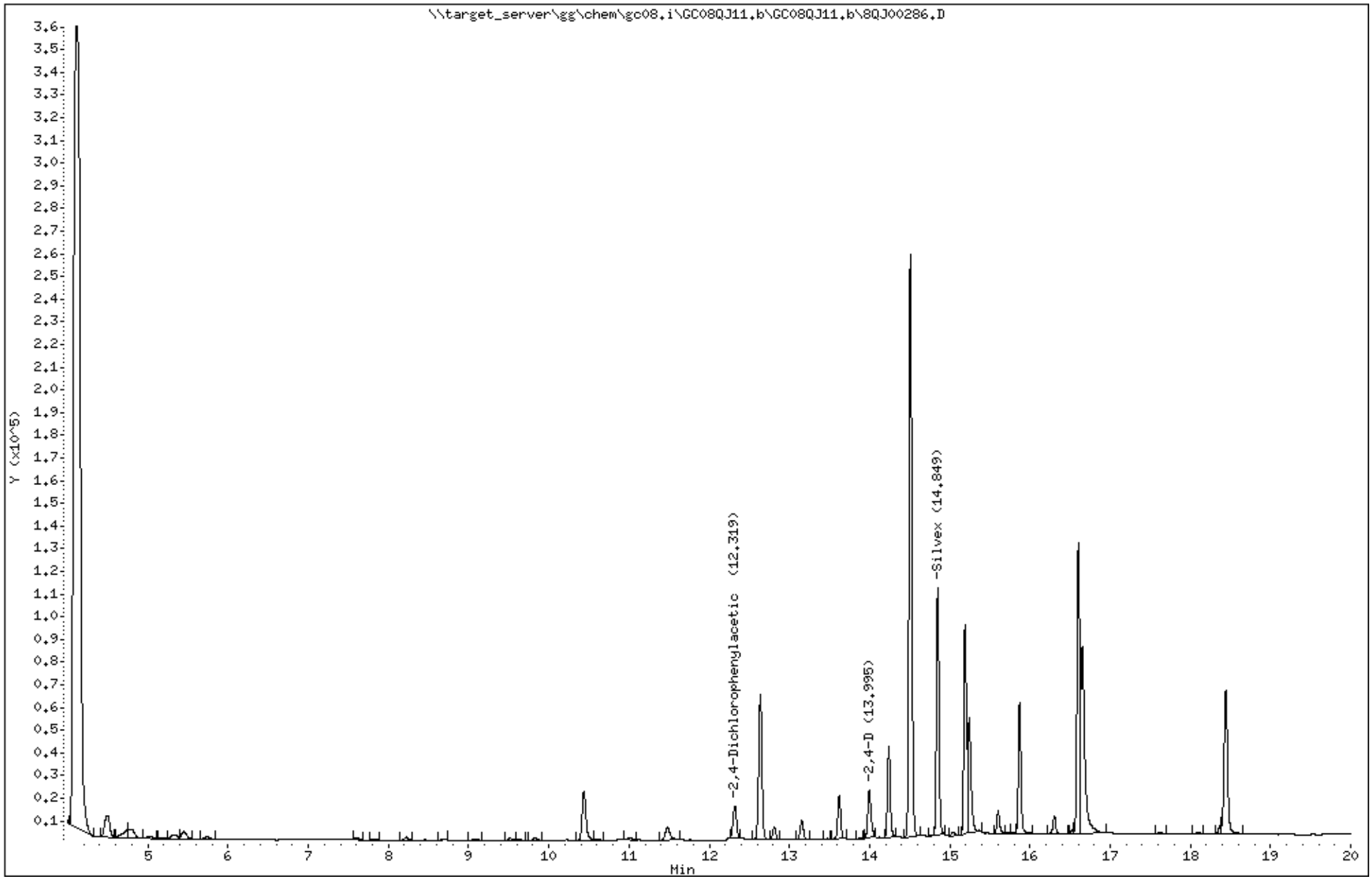
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 2 2,4-Dichlorophenylacetic Acid	12.318	12.371	-0.053	13955	0.59044	5.53(M)	M7
7 2,4-D	13.995	14.032	-0.037	21024	0.59957	5.64(M)	M7
9 Silvex	14.848	14.881	-0.033	109207	0.59746	5.68(M)	M7

SR
11:56 am, Oct 19, 2023

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00286.D
Date : 11-OCT-2023 16:38
Client ID: WG343382-LCSD
Instrument: gc08.i
Sample Info: WG343382-3
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



Katahdin Analytical Services SQ5109 Page 536 of 681

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES, LLC. Non-Volatile TCLP/SPLP Extraction Log

I. EXTRACTION CONDITIONS

Extraction Method:	SW846 1311 (TCLP) ☐ SW846 1312 (SPLP) ☐		Balance ID: BAL-09	Rotary Extractor ID:		
			pH Probe ID:	pH Meter ID: Fisher AB315 S/N A11928		
Solid pH Determination:	Date:	Analyst:	Room Thermometer ID:	(Room Temp Criteria. 23(±2)°C)		
Rotary Extraction Started:	Date:	Time:	Analyst:	RoomTemp(°C):	Start:	End:
Rotary Extraction Completed:	Date:	Time:	Analyst:	Room Temp (°C):	Min.	Max.
Extraction Filtered:	Date:	Time:	Analyst:	Filter Lot #: 600019199Z		
Elapsed Extraction Time (HH:MM):		5% HNO_3 ID (used to wash filters): ~~MG5949~~ ~~MG8327~~		HNO_3 Lot # (used to preserve extracts): MG8327		
Fluid 1 pH (Day of use):		Fluid 1 Expiration Date: 06-10-25		Rotary Extractor Rotation Rate Checked?		
Fluid 2 pH (Day of use):		Fluid 2 Expiration Date:		Criteria. 30 ± 2 RPM		

II. EXTRACTION SETUP TCLP Fluid pH: #1 - 4.93 ± 0.05 #2 - 2.88 ± 0.05 SPLP Fluid pH: #1 - 4.20 ± 0.05 #2 - 5.00 ± 0.05

Katahdin Sample No. (include bottle ID)	Matrix	Check One: 100% Wet Solids- waste will yield no liquid upon filtration	Check One: < 100% Wet Solids (Perform Solids Determination below)	SPLP FLUID # (1 for east and 2 for west of Mississippi River)	TCLP pH Determination and Fluid Selection (date & init. above): Initial pH of solid phase: (if <5, use Fluid #1; if >5 add 3.5 mL of 1 N HCl)	pH after 1 N HCL addition (if <5, use Fluid #1; if >5, use Fluid #2	Extraction Setup: Volume of Extraction Fluid (mL)	Fluid # used	Associated Extraction Blank ID:	Weight of Waste (g)	pH of extract after extraction:	Extract to be analyzed for: Metals (M), SVOA (S), PEST (P), HERB (H), Cyanide (C)	Extraction Bottle ID (if applicable)
											CD 9-27-23		

III. SOLIDS DETERMINATION

Date AQ Filtered: 9-27-23

Katahdin Sample No. (include bottle ID)	AQ or SL	Time Filt'd	A: Weight of filter (g)	B: Weight of filtrate vessel (g)	C: Weight of weigh boat + waste (g)	D: Weight of weigh boat + residue (g)	E: Weight of waste (C-D) (g)	F: Weight of filtrate vessel + filtrate (g)	G: Weight of liquid phase (F-B) (g)	H: Percent wet solids [(E-G)/E x 100%]	I: Weight of filter + dry solids (g)	J: Weight of dry solids (I-A) (g)	K: Percent dry solids (J/E x 100%)
SQ5109-1J CD 9-27	AQ	1330	1.20	15.46	120.63	14.73	105.89	118.36	103.90	2.82	1.28	0.08	0.02%

IV. PHASE SEPARATION

Katahdin Sample No. (include bottle ID)	Matrix	Percent dry solids [1]: <0.5%	Percent dry solids [1]: >0.5%	L: Weight of filtrate vessel (g)	M: Weight of weigh boat + waste (g)	N: Weight of weigh boat + residue (g)	O: Weight of waste (M-N) (g)	P: Weight of filtrate vessel + filtrate (g)	Q: Weight of liquid phase (P-L) (g)	R: Volume of liquid phase (mL) [2]	S: Weight of wet solids (O - Q) (g)
										CD 9-27-23	

1) If dry solids is <0.5%, filter sufficient volume of waste to support all required analyses. If dry solids >0.5% and wet solids <100%, perform phase separation (steps I – S above).

2) If miscible, proportionately combine pre-extraction filtrate with rotary extract. If not miscible, analyze aliquots separately and mathematically combine results.

V. COMMENTS:

CD 9-27-23

Reviewed By_____ Date_____

Herb
Sep

KATAHDIN ANALYTICAL SERVICES
ORGANIC EXTRACTIONS LOG - HERBICIDES

Extraction Method: (√ one)	SEP. FUNNEL: X	SONICATION:	Analytical Method: SW846 8151		
Standards	Surrogate ID (1): GC2495	Surrogate ID (2):	Spike ID (1):	Spike ID (2):	
Solvents	MeCl2 Lot #: ———	Acetone Lot # : ———	Hexane Lot #: 230897		
	Ether Lot #: EG357-US	Methanol Lot #: GC2503	Isooctane Lot #: 218006		
Consumables	Filter Paper Lot # (SON) ———	Filter Paper Lot # (KD) CX0K6	Powdered $NaSO_4$ Lot # ———		
	Crystal $NaSO_4$ Lot #: Acidified RE1012	HCl Lot #: ———	H_2SO_4 Lot #: cold 1:3 RE01015		
	NaOH Lot #: 213750	Silicic Acid Lot #: STD339	Diazald ID: GC2002		
	Potassium Hydroxide Lot #: RE0946	$NaCl_2$ Lot #: RE01011	pH Paper Lot#: 6303005		
Prep Start Time: 14:20	Prep End Time: 13:30	Nitrogen Bath Temperature: 40°	Sonicator Horns Tuned: ———	Balance ID: ———	

Ext. Date	Ext. Init.	Sample ID	Initial Vol. / Weight (g / mL)	Surr. Vol. (mL)	Spk. Vol. (mL)	Date Esterified	Date Conc.	Conc. Init.	Final Vol. (mL)	Tray Loc.	RV24117 Comments
10/2/23	JH SR	WG343382-1	1000	1.0	N/A	10/6/23 →		SR	10.00	04	MB
↓	↓	-2	↓	↓	1.0	↓	↓	↓	↓	05	LCS
		-3	↓	↓	↓	↓	↓	↓	↓	06	LCSD
↓	↓	-4	200	↓	↓	↓	↓	↓	↓	07	TCLP Blank

10/6/23

EX-014 – Revision 3 – 06/09/2016

Ext. Date	Ext. Init.	Sample ID	Initial Vol. / Weight (g / mL)	Surr. Vol. (mL)	Spk. Vol. (mL)	Date Esterified	Date Conc.	Conc. Init.	Final Vol. (mL)	Tray Loc.	Comments
10/2/23	SH SR	SQ5108-1	200	1.0	N/A	10/6/23 →		SR	10.00	08	TCLP
↓	↓	SQ5109-1	200	↓	↓	↓	↓	↓	↓	09	↓

10/6/23

Reviewed By_____ Date_____

Katahdin Analytical Services

GC Laboratory Instrument Runlog

Instrument: GC08

Amount Injected: 2 uL

Column Numbers: 564, 565

Method: SW846 8081 / 8082 / 8151 / 8011
(circle) EPA 504.1 / 556

Hexane Lot #:	223259
Standard	Standard ID

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
7/10/23	AD	80600057-60	PRIME	N	WG339228	Herb150	
		61	Herb 0.5	Y	-1		P0886
		62	Herb 2.0	Y	-2		P0885
		63	Herb 1.0	Y	-3		P0890
		64	Herb 0.75	Y	-4		P0891
		65	Herb 0.25	Y	-5		P0887
		66	Herb 0.1	Y	-6		P0892
		67	Herb IND 0.5	Y	-7		P0867

Katahdin Analytical Services

GC Laboratory Instrument Runlog

Instrument: GC08

Amount Injected: 2 uL

Column Numbers: 564/565

Method: SW846 8081 / (8082) / (8151) / 8011
(circle) EPA 504.1 / 556

Hexane Lot #:	230897
Standard	Standard ID
AR1660 1.0	P0955
↓ 0.25	P0956
AR1254 1.0	P0952
↓ 0.25	P0953
CONG 0.05	P0926
↓ 0.025	P0927

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
10-10-23	JLP	8Q500260	WG343597-6	Y	WG343712	PCB-002	ITA C
10-11-23		261	SQ3920-2	Y			
		262	-3				T+DUP+B (R)
		263	-13	Y			
		264	-16	Y			DUP
		265	-19	Y			
		266	-4				(R) CONG hits
		267	-20	Y			DUP+B matrix
		268	-14	Y			
		269	RINSE	N			colored soils
		270	AR1660 0.25	Y	-7		
		271	AR1254 ↓	Y	-8		
		272	CONG 0.025	Y	-9		
		273	SQ3920-9DL				1:5 matrix (R) 60 hits
		274	↓ -10DL				1:5 ↓ (R) 60 hits
		275	RINSE	N			black extracts
		276	↓	↓			↓
		277	AR1660 1.0	Y	-10		1660A carryover peaks
		278	AR1254 ↓	Y	-11		
		279	CONG 0.05	Y	-12		
10/11/23	SP	Maint. - Clipped guard, replaced liner + Septa					
		8QI00280	Prime	↑		Herb150	
		281	Herb 2.0 1:4	↓			
		282	Herb 0.5	↑	*		↑
		283	Herb 0.5	Y	WG343382780-1		PQ959
		284	WG343382-1				
		285	-2				
		286	-3				
		287	-4				RBT i813A
		288	SQ5108-1				

* 10/11/23 1:5 = 100/500uL

Katahdin Analytical Services

GC Laboratory Instrument Runlog

Instrument: GC08

Amount Injected: 2 uL

Column Numbers: 564/565

Method: SW846 8081 / 8082 / 8151 / 8011
(circle) EPA 504.1 / 556

Hexane Lot #:	230897
Standard	Standard ID
Herb 0.5	P0959
↓ 0.25	P0887

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
10/11/23	SR	8QI00289	SQ5109-1	Y	WG343780	Herb150	
↓	↓	↓ 290	RINSE	N	↓	↓	
		291	WG343705-1	Y			
		292	↓ -2	↓			DLPA✓ ↑AB
		293	↓ -3				↓ ↑AB
		294	SQ5408-1				DLPA ↑A
		295	SQ5422-1				
		296	↓ -2				
		297	-4				
		298	↓ -5				
		299	Herb 0.25	↓	-2		2↓B
		300	RINSE	N			
		301	WG343533-1	Y			
		302	↓ -2	↓			
		303	↓ -3				
		304	SQ5169-2				
↓	↓	↓ 305	Herb 0.5	↓	↓ -3	↓	2↓B

METALS DATA

Sample Data Section

METALS SAMPLE FLAGGING

FLAG	SPECIFIED MEANING
E	The reported value is estimated because of the presence of interference (as indicated by serial dilution).
N	The pre-digestion spiked sample recovery is not within control limits.
*	The duplicate sample analysis relative percent difference (RPD) is not within control limits.
B	Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.
A	The post-digestion spiked sample recovery is not within control limits.
•	Analytical run QC sample (e.g. ICV, CCV, ICB, CCB, ICSA, ICSAB) not within control limits.
U	The analyte was not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client. Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL, "U" LOQ or "U" LOD, where the rate of false negatives is <1%.
J	Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).
Q	One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery or CCV).

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Katahdin Analytical Services

SDG Name: SQ5109 **SOW No.** SW846

Client Field ID	Lab Sample ID
DOW-SWC-01	SQ5109-001
DOW-SWC-01	SQ5109-001N
DOW-SWC-01	SQ5109-001O

Were ICP interelement corrections applied ?	Yes
Were ICP background corrections applied ?	Yes
If yes - were raw data generated before application of background corrections ?	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Camille Dimond Name: Camille Dimond

Date: 10-16-23 Title: Metals Analyst

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** DOW-SWC-01

Matrix: WATER **SDG Name:** SQ5109

Percent Solids: 0.00 **Lab Sample ID:** SQ5109-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	MDL	LOD
7440-38-2	ARSENIC, TCLP	25	U		P	1	40	13	25
7440-39-3	BARIUM, TCLP	99.1		B	P	1	25	7.5	15
7440-43-9	CADMIUM, TCLP	15	U		P	1	25	7.5	15
7440-47-3	CHROMIUM, TCLP	20	U		P	1	50	10	20
7439-92-1	LEAD, TCLP	20	U		P	1	25	10	20
7439-97-6	MERCURY, TCLP	0.10	U		CV	1	0.20	0.050	0.10
7782-49-2	SELENIUM, TCLP	35	U		P	1	50	18	35
7440-22-4	SILVER, TCLP	20	U		P	1	50	10	20

Comments:

QC Summary Section

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Concentration Units: ug/L

SAMPLE: ICV

File: IQI29A Sep 29, 2023 10:48

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	10190.00	101.9
ARSENIC	400.0	397.90	99.5
BARIUM	400.0	409.20	102.3
CADMIUM	400.0	409.30	102.3
CALCIUM	10000.0	10120.00	101.2
CHROMIUM	400.0	407.10	101.8
IRON	10000.0	10270.00	102.7
LEAD	400.0	416.80	104.2
MAGNESIUM	10000.0	10420.00	104.2
SELENIUM	400.0	402.20	100.6
SILVER	400.0	405.30	101.3

SAMPLE: CCV

File: IQI29A Sep 29, 2023 11:09

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	13030.00	104.2
ARSENIC	500.0	510.90	102.2
BARIUM	500.0	515.50	103.1
CADMIUM	500.0	516.10	103.2
CALCIUM	12500.0	12880.00	103.0
CHROMIUM	500.0	520.30	104.1
IRON	12500.0	12990.00	103.9
LEAD	500.0	524.20	104.8
MAGNESIUM	12500.0	13040.00	104.3
SELENIUM	500.0	507.10	101.4
SILVER	500.0	518.00	103.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Concentration Units: ug/L

SAMPLE: CCV

File: IQI29A Sep 29, 2023 11:27

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12780.00	102.2
ARSENIC	500.0	510.30	102.1
BARIUM	500.0	508.10	101.6
CADMIUM	500.0	504.90	101.0
CALCIUM	12500.0	12750.00	102.0
CHROMIUM	500.0	512.10	102.4
IRON	12500.0	12770.00	102.2
LEAD	500.0	512.60	102.5
MAGNESIUM	12500.0	12780.00	102.2
SELENIUM	500.0	505.00	101.0
SILVER	500.0	508.30	101.7

SAMPLE: CCV

File: IQI29A Sep 29, 2023 12:21

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12900.00	103.2
ARSENIC	500.0	510.20	102.0
BARIUM	500.0	512.20	102.4
CADMIUM	500.0	513.90	102.8
CALCIUM	12500.0	12650.00	101.2
CHROMIUM	500.0	518.80	103.8
IRON	12500.0	12820.00	102.6
LEAD	500.0	522.10	104.4
MAGNESIUM	12500.0	12940.00	103.5
SELENIUM	500.0	509.50	101.9
SILVER	500.0	516.00	103.2

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Concentration Units: ug/L

SAMPLE: CCV

File: IQI29A Sep 29, 2023 13:13

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	13520.00	108.2
ARSENIC	500.0	535.70	107.1
BARIUM	500.0	536.10	107.2
CADMIUM	500.0	539.60	107.9
CALCIUM	12500.0	13420.00	107.4
CHROMIUM	500.0	542.10	108.4
IRON	12500.0	13480.00	107.8
LEAD	500.0	548.60	109.7
MAGNESIUM	12500.0	13590.00	108.7
SELENIUM	500.0	531.50	106.3
SILVER	500.0	538.70	107.7

SAMPLE: CCV

File: IQI29A Sep 29, 2023 14:05

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	13330.00	106.6
ARSENIC	500.0	517.70	103.5
BARIUM	500.0	525.50	105.1
CADMIUM	500.0	524.80	105.0
CALCIUM	12500.0	13140.00	105.1
CHROMIUM	500.0	530.60	106.1
IRON	12500.0	13260.00	106.1
LEAD	500.0	532.70	106.5
MAGNESIUM	12500.0	13240.00	105.9
SELENIUM	500.0	514.70	102.9
SILVER	500.0	527.60	105.5

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Concentration Units: ug/L

SAMPLE: CCV

File: IQI29A Sep 29, 2023 14:57

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	13060.00	104.5
ARSENIC	500.0	516.60	103.3
BARIUM	500.0	517.70	103.5
CADMIUM	500.0	520.30	104.1
CALCIUM	12500.0	12770.00	102.2
CHROMIUM	500.0	521.80	104.4
IRON	12500.0	12930.00	103.4
LEAD	500.0	528.90	105.8
MAGNESIUM	12500.0	13140.00	105.1
SELENIUM	500.0	513.90	102.8
SILVER	500.0	520.90	104.2

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Concentration Units: ug/L

SAMPLE: ICV

File: MQI28B Sep 28, 2023 14:06

Analyte	True	Found	%R (1)
MERCURY	6.0	6.09	101.5

SAMPLE: CCV

File: MQI28B Sep 28, 2023 14:14

Analyte	True	Found	%R (1)
MERCURY	5.0	5.09	101.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Concentration Units: ug/L

SAMPLE: CCV

File: MQI28B Sep 28, 2023 14:44

Analyte	True	Found	%R (1)
MERCURY	5.0	4.99	99.8

SAMPLE: CCV

File: MQI28B Sep 28, 2023 15:15

Analyte	True	Found	%R (1)
MERCURY	5.0	5.02	100.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Concentration Units: ug/L

SAMPLE: CCV

File: MQI28B Sep 28, 2023 15:45

Analyte	True	Found	%R (1)
MERCURY	5.0	5.02	100.4

SAMPLE: CCV

File: MQI28B Sep 28, 2023 16:16

Analyte	True	Found	%R (1)
MERCURY	5.0	4.97	99.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Concentration Units: ug/L

SAMPLE: PQL

File: IQI29A Sep 29, 2023 10:56

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	290.30	96.8
ARSENIC	8.0	7.50	93.8
BARIUM	5.0	5.28	105.6
CADMIUM	5.0	5.07	101.4
CALCIUM	100.0	98.36	98.4
CHROMIUM	10.0	10.08	100.8
IRON	100.0	105.70	105.7
LEAD	5.0	5.66	113.2
MAGNESIUM	100.0	105.40	105.4
SELENIUM	10.0	8.85	88.5
SILVER	10.0	9.53	95.3

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Concentration Units: ug/L

SAMPLE: PQL

File: MQI28B Sep 28, 2023 14:11

Analyte	TRUE	FOUND	% R
MERCURY	0.2	0.21	105.0

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Concentration Units: ug/L

SAMPLE: ICB

File: IQI29A Sep 29, 2023 10:52

Analyte	Result	C
ALUMINUM	10.000	U
ARSENIC	1.400	U
BARIUM	0.410	U
CADMIUM	0.092	U
CALCIUM	11.000	U
CHROMIUM	0.200	U
IRON	3.859	J
LEAD	1.000	U
MAGNESIUM	2.900	U
SELENIUM	2.300	U
SILVER	0.530	U

SAMPLE: CCB

File: IQI29A Sep 29, 2023 11:13

Analyte	Result	C
ALUMINUM	10.000	U
ARSENIC	1.400	U
BARIUM	0.410	U
CADMIUM	0.092	U
CALCIUM	11.000	U
CHROMIUM	0.200	U
IRON	3.600	U
LEAD	1.000	U
MAGNESIUM	2.900	U
SELENIUM	2.300	U
SILVER	0.530	U

SAMPLE: CCB

File: IQI29A Sep 29, 2023 11:31

Analyte	Result	C
ALUMINUM	10.000	U
ARSENIC	3.720	J
BARIUM	0.410	U
CADMIUM	0.092	U
CALCIUM	11.000	U
CHROMIUM	0.200	U
IRON	3.600	U
LEAD	1.000	U
MAGNESIUM	2.900	U
SELENIUM	2.912	J
SILVER	0.530	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Concentration Units: ug/L

SAMPLE: CCB
File: IQI29A Sep 29, 2023 12:25

Analyte	Result	C
ALUMINUM	10.000	U
ARSENIC	1.592	J
BARIUM	0.410	U
CADMIUM	0.092	U
CALCIUM	11.000	U
CHROMIUM	0.324	J
IRON	4.769	J
LEAD	1.000	U
MAGNESIUM	2.900	U
SELENIUM	3.572	J
SILVER	0.530	U

SAMPLE: CCB
File: IQI29A Sep 29, 2023 13:17

Analyte	Result	C
ALUMINUM	10.000	U
ARSENIC	1.860	J
BARIUM	0.410	U
CADMIUM	0.092	U
CALCIUM	11.000	U
CHROMIUM	0.200	U
IRON	3.600	U
LEAD	1.000	U
MAGNESIUM	2.900	U
SELENIUM	2.300	U
SILVER	0.530	U

SAMPLE: CCB
File: IQI29A Sep 29, 2023 14:09

Analyte	Result	C
ALUMINUM	10.000	U
ARSENIC	1.400	U
BARIUM	0.410	U
CADMIUM	0.092	U
CALCIUM	11.000	U
CHROMIUM	0.200	U
IRON	5.430	J
LEAD	1.000	U
MAGNESIUM	2.900	U
SELENIUM	2.300	U
SILVER	0.530	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Concentration Units: ug/L

SAMPLE: CCB

File: IQI29A Sep 29, 2023 15:01

Analyte	Result	C
ALUMINUM	10.000	U
ARSENIC	1.400	U
BARIUM	0.410	U
CADMIUM	0.102	J
CALCIUM	11.000	U
CHROMIUM	0.200	U
IRON	3.600	U
LEAD	1.000	U
MAGNESIUM	2.900	U
SELENIUM	2.300	U
SILVER	0.530	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Concentration Units: ug/L

SAMPLE: ICB

File: MQI28B Sep 28, 2023 14:09

Analyte	Result	C
MERCURY	0.005	J

SAMPLE: CCB

File: MQI28B Sep 28, 2023 14:16

Analyte	Result	C
MERCURY	0.005	J

SAMPLE: CCB

File: MQI28B Sep 28, 2023 14:47

Analyte	Result	C
MERCURY	0.009	J

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Concentration Units: ug/L

SAMPLE: CCB
File: MQI28B Sep 28, 2023 15:17

Analyte	Result	C
MERCURY	0.006	J

SAMPLE: CCB
File: MQI28B Sep 28, 2023 15:48

Analyte	Result	C
MERCURY	0.005	U

SAMPLE: CCB
File: MQI28B Sep 28, 2023 16:18

Analyte	Result	C
MERCURY	0.005	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBT1813A

Matrix: WATER **SDG Name:** SQ5109

QC Batch ID: QI28ICW2

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	25	U
BARIUM	57	B
CADMIUM	15	U
CHROMIUM	20	U
LEAD	20	U
MERCURY	0.10	U
SELENIUM	35	U
SILVER	20	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWQI28HGW1

Matrix: WATER **SDG Name:** SQ5109

QC Batch ID: QI28HGW1

Concentration Units : ug/L

Analyte	RESULT	C
MERCURY	0.10	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWQI28ICW2

Matrix: WATER **SDG Name:** SQ5109

QC Batch ID: QI28ICW2

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	5.0	U
BARIUM	3.0	U
CADMIUM	3.0	U
CHROMIUM	4.0	U
LEAD	4.0	U
SELENIUM	7.0	U
SILVER	4.0	U

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Concentration Units: ug/L

SAMPLE: ICSA

File: IQI29A Sep 29, 2023 11:01

Analyte	TRUE	FOUND	% R
ALUMINUM	500000.00	518800.00	103.8
ARSENIC	0	3.01	
BARIUM	2.00	2.48	
CADMIUM	0	1.45	
CALCIUM	500000.00	479100.00	95.8
CHROMIUM	5.20	4.09	
IRON	200000.00	190300.00	95.2
LEAD	0	1.62	
MAGNESIUM	500000.00	452000.00	90.4
SELENIUM	0	-1.70	
SILVER	0	-0.65	

SAMPLE: ICSAB

File: IQI29A Sep 29, 2023 11:05

Analyte	TRUE	FOUND	% R
ALUMINUM	500000.00	512400.00	102.5
ARSENIC	100.00	101.60	102.0
BARIUM	500.00	519.20	103.8
CADMIUM	1000.00	962.90	96.3
CALCIUM	500000.00	485700.00	97.1
CHROMIUM	500.00	500.10	100.0
IRON	200000.00	191500.00	95.8
LEAD	50.00	45.87	92.0
MAGNESIUM	500000.00	459500.00	91.9
SELENIUM	50.00	54.38	108.0
SILVER	200.00	223.80	112.0

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services **Client Field ID:** DOW-SWC-01N

Matrix: WATER **SDG Name:** SQ5109

Percent Solids: 0.00 **Lab Sample ID:** SQ5109-001N

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ARSENIC, TCLP	210		25	U	200	104.8		87	113	P
BARIUM, TCLP	4260		99.1		4000	104.0		88	113	P
CADMIUM, TCLP	536		15	U	500	107.2		88	113	P
CHROMIUM, TCLP	437		20	U	400	109.2		90	113	P
LEAD, TCLP	211		20	U	200	105.7		86	113	P
MERCURY, TCLP	1.92		0.10	U	2	96.0		82	119	CV
SELENIUM, TCLP	218		35	U	200	109.1		83	114	P
SILVER, TCLP	107		20	U	100	107.3		84	115	P

Comments:

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services **Client Field ID:** DOW-SWC-01O

Matrix: WATER **SDG Name:** SQ5109

Percent Solids: 0.00 **Lab Sample ID:** SQ5109-001O

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ARSENIC, TCLP	203		25	U	200	101.7		87	113	P
BARIUM, TCLP	4200		99.1		4000	102.4		88	113	P
CADMIUM, TCLP	530		15	U	500	105.9		88	113	P
CHROMIUM, TCLP	433		20	U	400	108.3		90	113	P
LEAD, TCLP	210		20	U	200	105.0		86	113	P
MERCURY, TCLP	1.88		0.10	U	2	94.0		82	119	CV
SELENIUM, TCLP	224		35	U	200	111.8		83	114	P
SILVER, TCLP	108		20	U	100	108.6		84	115	P

Comments:

5D

SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services **Client Field ID:** DOW-SWC-01

Matrix: WATER **SDG Name:** SQ5109

Percent Solids: 0.00 **Lab Sample ID:** SQ5109-001

Concentration Units : ug/L

Analyte	Control Limits	Spike Result	C	Spike Dup. Result	C	RPD	Q	M
ARSENIC, TCLP		210		203		3.0		P
BARIUM, TCLP		4260		4200		1.5		P
CADMIUM, TCLP		536		530		1.2		P
CHROMIUM, TCLP		437		433		0.8		P
LEAD, TCLP		211		210		0.6		P
MERCURY, TCLP		1.92		1.88		2.1		CV
SELENIUM, TCLP		218		224		2.4		P
SILVER, TCLP		107		108		1.1		P

Comments:

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWQI28HGW1

Matrix: WATER **SDG Name:** SQ5109

QC Batch ID: QI28HGW1

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
MERCURY	5.00	5.11	102.2	82	119

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWQI28ICW2

Matrix: WATER **SDG Name:** SQ5109

QC Batch ID: QI28ICW2

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ARSENIC	100	103	102.6	87	113
BARIUM	2000	2120	105.8	88	113
CADMIUM	250	256	102.4	88	113
CHROMIUM	200	214	106.8	90	113
LEAD	100	104	104.4	86	113
SELENIUM	100	100	100.3	83	114
SILVER	50.0	51.3	102.5	84	115

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 01/23/2019

Concentration Units: ug/L

Analyte	PQL/LOQ	IDL	M
ALUMINUM	300	10	P
ARSENIC	8.0	1.4	P
BARIUM	5.0	0.41	P
CADMIUM	5.0	0.092	P
CALCIUM	100	11	P
CHROMIUM	10	0.20	P
IRON	100	3.6	P
LEAD	5.0	1.0	P
MAGNESIUM	100	2.9	P
SELENIUM	10	2.3	P
SILVER	10	0.53	P

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** M

Instrument Name: TELEDYNE M7600 **Date:** 05/10/2022

Concentration Units: ug/L

Analyte	PQL/LOQ	IDL	M
MERCURY	0.20	0.0048	CV

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 06/11/2010

Analyte	LOD	Units	M	EPA Prep./Anal. Method
ARSENIC	5.0	ug/L	P	SW846 3010A / SW846 6010C
BARIUM	3.0	ug/L	P	SW846 3010A / SW846 6010C
CADMIUM	3.0	ug/L	P	SW846 3010A / SW846 6010C
CHROMIUM	4.0	ug/L	P	SW846 3010A / SW846 6010C
LEAD	4.0	ug/L	P	SW846 3010A / SW846 6010C
SELENIUM	7.0	ug/L	P	SW846 3010A / SW846 6010C
SILVER	4.0	ug/L	P	SW846 3010A / SW846 6010C

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** M

Instrument Name: TELEDYNE M7600 **Date:** 05/11/2022

Analyte	LOD	Units	M	EPA Prep./Anal. Method
MERCURY	0.10	ug/L	CV	SW846 7470A / SW846 7470A

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 01/19/2011

Analyte	MDL	Units	M	EPA Prep./Anal. Method
ARSENIC	2.5	ug/L	P	SW846 3010A / SW846 6010C
BARIUM	1.5	ug/L	P	SW846 3010A / SW846 6010C
CADMIUM	1.5	ug/L	P	SW846 3010A / SW846 6010C
CHROMIUM	2.0	ug/L	P	SW846 3010A / SW846 6010C
LEAD	2.0	ug/L	P	SW846 3010A / SW846 6010C
SELENIUM	3.5	ug/L	P	SW846 3010A / SW846 6010C
SILVER	2.0	ug/L	P	SW846 3010A / SW846 6010C

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** M

Instrument Name: TELEDYNE M7600 **Date:** 05/03/2022

Analyte	MDL	Units	M	EPA Prep./Anal. Method
MERCURY	0.050	ug/L	CV	SW846 7470A / SW846 7470A

FORM X - IN

ICP INTERELEMENT CORRECTION FACTORS

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Instrument Name: THERMO ICAP 6500 **Instrument ID:** I **Date:** 03/10/2021

	Wavelength	Interelement Correction Factors for:												
Analyte	**(nm)**	**Al**	**Ca**	**Fe**	**Mg**	**As**	**Cr**	**Co**	**Cu**	**Mn**	**Mo**	**Ni**	**Ti**	**V**
ALUMINUM	396.15	0.0	0.0003014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0352212	0.0	0.0	0.0
ANTIMONY	206.83	0.0000152	0.0	0.0000225	0.0	0.0000731	0.0199905	0.0	0.0	0.0	-0.0010086	-0.0007236	0.0	-0.0012893
ARSENIC	189.04	-0.0000134	0.0	-0.0001852	0.0	0.0	0.0007091	0.0	0.0	0.0	0.0026341	0.0	0.0	0.0
BARIUM	455.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	313.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0008597	0.0000632
BORON	208.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0316879	0.0	0.0	0.0
CADMIUM	226.50	0.0	0.0	0.0001016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0001135	0.0000816	0.0
CALCIUM	315.89	0.0	0.0	0.0	0.0	0.0	0.0010244	0.0007850	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	267.72	0.0	0.0	-0.0000069	0.0	0.0	0.0	0.0	0.0	0.0004904	0.0	0.0	0.0	0.0001111
COBALT	228.62	0.0	0.0	0.0000032	0.0	0.0	-0.0001286	0.0	0.0	0.0	0.0	0.0001562	0.0020749	0.0
COPPER	327.40	-0.0000204	0.0	0.0000657	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0006988	0.0000301
IRON	259.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0001161	0.0	0.0	0.0
LEAD	220.35	-0.0000997	0.0	0.0000166	0.0	-0.0000864	-0.0000772	-0.0001650	0.0002467	0.0	-0.0014543	0.0001609	-0.0000220	0.0
LITHIUM	670.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	202.58	0.0	0.0	0.0000337	0.0	0.0	0.0	0.1395100	0.0	0.0	0.0145280	0.0	-0.0003978	0.0
MANGANESE	257.61	-0.0000014	0.0	0.0000075	0.0000011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	202.03	0.0	0.0	0.0	0.0	0.0	0.0000270	0.0	0.0	-0.0000204	0.0	0.0	0.0	-0.0001163
NICKEL	231.60	0.0	0.0	-0.0000126	0.0	0.0	0.0	0.0001405	0.0	0.0	0.0001979	0.0	0.0	0.0
POTASSIUM	766.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	196.09	0.0000183	0.0	0.0000261	0.0	0.0001381	0.0	0.0003459	0.0	0.0007276	0.0	0.0	0.0	0.0005419
SILICON	251.61	0.0	0.0	-0.0000097	0.0	0.0	0.0	0.0	0.0	0.0	0.0021008	0.0	-0.0040432	0.0
SILVER	328.07	0.0	0.0	-0.0001580	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0000484	0.0
SODIUM	589.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	421.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	190.86	0.0000079	0.0	0.0000039	0.0	0.0	0.0	0.0036144	-0.0000467	-0.0025332	-0.0000004	0.0	-0.0012997	-0.0014201
TIN	189.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	334.90	0.0	0.0	0.0	0.0	0.0	0.0001510	0.0	0.0	0.0	-0.0000929	0.0	0.0	0.0
VANADIUM	292.40	0.0	0.0	0.0000080	0.0	0.0	-0.0025467	0.0	0.0	-0.0003454	-0.0089122	0.0	0.0002897	0.0
ZINC	206.20	0.0	0.0	0.0	0.0	0.0	-0.0010444	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FORM XI - IN

ICP LINEAR RANGES

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 08/11/2022

Concentration Units: ug/L

Analyte	Integration Time (sec)	Linear Range	M
ALUMINUM	5.00	500000	P
ARSENIC	45.00	20000	P
BARIUM	5.00	20000	P
CADMIUM	45.00	20000	P
CALCIUM	5.00	500000	P
CHROMIUM	10.00	20000	P
IRON	5.00	250000	P
LEAD	45.00	20000	P
MAGNESIUM	45.00	200000	P
SELENIUM	45.00	20000	P
SILVER	10.00	2000	P

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** QI28HGW1

Matrix: WATER **SDG Name:** SQ5109

Method: CV **Prep Date:** 09/28/2023

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWQI28HGW1	LCSWQI28HGW1	0.025	0.025	
PBT1813A	PBT1813A	0.025	0.025	
PBWQI28HGW1	PBWQI28HGW1	0.025	0.025	
DOW-SWC-01	SQ5109-001	0.025	0.025	
DOW-SWC-01	SQ5109-001N	0.025	0.025	
DOW-SWC-01	SQ5109-001O	0.025	0.025	

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** QI28ICW2

Matrix: WATER **SDG Name:** SQ5109

Method: P **Prep Date:** 09/28/2023

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWQI28ICW2	LCSWQI28ICW2	0.05	0.05	
PBT1813A	PBT1813A	0.01	0.05	
PBWQI28ICW2	PBWQI28ICW2	0.05	0.05	
DOW-SWC-01	SQ5109-001	0.01	0.05	
DOW-SWC-01	SQ5109-001N	0.01	0.05	
DOW-SWC-01	SQ5109-001O	0.01	0.05	

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Instrument ID: THERMO ICAP 6500 **File Name:** IQI29A

Date: 09/29/2023 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements										
Blank		1	10:39	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
Std 1		1	10:43	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
ICV		1	10:48	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
ICB		1	10:52	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
PQL		1	10:56	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
ICSA		1	11:01	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
ICSAB		1	11:05	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
CCV		1	11:09	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
CCB		1	11:13	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
ZZZZZZ		1	11:18											
ZZZZZZ		1	11:23											
CCV		1	11:27	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
CCB		1	11:31	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
ZZZZZZ		1	11:36											
ZZZZZZ		1	11:42											
ZZZZZZ		1	11:47											
ZZZZZZ		1	11:51											
LCSWQI28ICW2		1	11:55		AS	BA	CD		CR		PB		SE	AG
PBWQI28ICW2		1	12:00		AS	BA	CD		CR		PB		SE	AG
ZZZZZZ		1	12:04											
ZZZZZZ		1	12:08											
ZZZZZZ		1	12:12											
ZZZZZZ		1	12:17											
CCV		1	12:21	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
CCB		1	12:25	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
ZZZZZZ		1	12:30											
PBT1813A		1	12:34		AS	BA	CD		CR		PB		SE	AG

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Instrument ID: THERMO ICAP 6500 **File Name:** IQI29A

Date: 09/29/2023 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements												
ZZZZZZ		1	12:38													
ZZZZZZ		1	12:43													
ZZZZZZ		1	12:47													
ZZZZZZ		1	12:52													
ZZZZZZ		5	12:56													
ZZZZZZ		1	13:00													
ZZZZZZ		1	13:04													
ZZZZZZ		1	13:08													
CCV		1	13:13	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		
CCB		1	13:17	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		
ZZZZZZ		1	13:21													
ZZZZZZ		1	13:26													
ZZZZZZ		1	13:30													
ZZZZZZ		1	13:34													
ZZZZZZ		1	13:39													
ZZZZZZ		1	13:43													
SQ5109-001	DOW-SWC-01	1	13:47		AS	BA	CD		CR		PB		SE	AG		
ZZZZZZ		1	13:52													
ZZZZZZ		5	13:56													
SQ5109-001N	DOW-SWC-01N	1	14:00		AS	BA	CD		CR		PB		SE	AG		
CCV		1	14:05	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		
CCB		1	14:09	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		
SQ5109-001O	DOW-SWC-01O	1	14:13		AS	BA	CD		CR		PB		SE	AG		
ZZZZZZ		1	14:18													
ZZZZZZ		1	14:22													
ZZZZZZ		1	14:26													
ZZZZZZ		1	14:31													

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Instrument ID: THERMO ICAP 6500 **File Name:** IQI29A

Date: 09/29/2023 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements											
ZZZZZZ		2	14:35												
ZZZZZZ		10	14:39												
ZZZZZZ		1	14:44												
ZZZZZZ		1	14:48												
ZZZZZZ		1	14:53												
CCV		1	14:57	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG	
CCB		1	15:01	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG	

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Instrument ID: TELEDYNE M7600 **File Name:** MQI28B

Date: 09/28/2023 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
Calibration Blank		1	13:50	Hg
Standard #1 (0.2 ug/		1	13:53	Hg
Standard #2 (0.5ug/L		1	13:55	Hg
Standard #3 (1.0 ug/		1	13:58	Hg
Standard #4 (5.0 ug/		1	14:00	Hg
Standard #5 (10.0 ug		1	14:03	Hg
ICV		1	14:06	HG
ICB		1	14:09	HG
PQL		1	14:11	HG
CCV		1	14:14	HG
CCB		1	14:16	HG
ZZZZZZ		1	14:19	
ZZZZZZ		1	14:22	
ZZZZZZ		1	14:24	
ZZZZZZ		1	14:27	
ZZZZZZ		1	14:29	
ZZZZZZ		1	14:32	
ZZZZZZ		1	14:34	
ZZZZZZ		1	14:37	
ZZZZZZ		1	14:39	
ZZZZZZ		1	14:42	
CCV		1	14:44	HG
CCB		1	14:47	HG
ZZZZZZ		1	14:49	
ZZZZZZ		1	14:52	
ZZZZZZ		1	14:55	
ZZZZZZ		1	14:57	

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Instrument ID: TELEDYNE M7600 **File Name:** MQI28B

Date: 09/28/2023 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
ZZZZZZ		1	15:00	
ZZZZZZ		1	15:02	
ZZZZZZ		1	15:05	
ZZZZZZ		1	15:07	
ZZZZZZ		1	15:10	
ZZZZZZ		1	15:12	
CCV		1	15:15	HG
CCB		1	15:17	HG
ZZZZZZ		1	15:20	
ZZZZZZ		1	15:22	
ZZZZZZ		1	15:25	
LCSWQI28HGW1		1	15:28	HG
PBWQI28HGW1		1	15:30	HG
PBT1813A		1	15:33	HG
ZZZZZZ		1	15:35	
ZZZZZZ		1	15:38	
ZZZZZZ		1	15:40	
ZZZZZZ		1	15:43	
CCV		1	15:45	HG
CCB		1	15:48	HG
ZZZZZZ		1	15:50	
SQ5109-001	DOW-SWC-01	1	15:53	HG
ZZZZZZ		1	15:56	
SQ5109-001N	DOW-SWC-01N	1	15:58	HG
SQ5109-001O	DOW-SWC-01O	1	16:01	HG
ZZZZZZ		1	16:03	
ZZZZZZ		1	16:06	

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5109

Instrument ID: TELEDYNE M7600 **File Name:** MQI28B

Date: 09/28/2023 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
ZZZZZZ		1	16:08	
ZZZZZZ		1	16:11	
ZZZZZZ		1	16:13	
CCV		1	16:16	HG
CCB		1	16:18	HG

Raw Data Section

KATAHDIN ANALYTICAL SERVICES, LLC
METALS ANALYSIS RUN INFORMATION SHEET

INSTR. ID: I (Thermo iCAP 6500) **ANALYST**: TT **ANALYSIS DATE**: 09/29/2023

METHOD: ICP
☑ 200.7
☑ 6010
☑ DOD
☐ _____

FILE NAME: IQI29A

Reviewed By: SA 10/02/23

The pHs of all samples that were tested by direct analysis in this analytical run were checked just prior to analysis and confirmed to be <2. The time of preservation of these samples was checked in the "Measured Turbidity and Preservation of Incoming Samples" logbook to verify that they had been preserved at least 16 hours prior to analysis. These verifications were performed by TT (initials) on 9/27/23 (date).

STANDARDS USED:

Standard Name	Standard ID	Prep Date	Expiration Date	Standard Conc.
Cal. Blk/ICB/CCB	MW21712	08/25/2023	08/25/2024	0 ug/L
Standard 1	MW21750	09/27/2023	12/27/2023	Varies by Element
ICV	MW21753	09/27/2023	12/27/2023	Varies by Element
PQL	MW21752	09/27/2023	12/27/2023	Varies by Element
LRS1	MW21760	09/29/2023	12/29/2023	Varies by Element
LRS2	MW21734	09/12/2023	09/30/2023	Varies by Element
ICSA	MW21693	08/07/2023	11/07/2023	Varies by Element
ICSAB	MW21740	09/15/2023	12/15/2023	Varies by Element
CCV	MW21757	09/28/2023	12/28/2023	Varies by Element
Internal Standard	MW21708	09/27/2023	12/27/2023	5.0 mg/L Yttrium

Additional Comments and Notes:

SA 10/02/23

25x serial diln.: 2.0mL of 5x diluted sample (pipet M37) + 8.0mL of MW21712 (pipet M37)

2x diln.: 4.0 mL of sample (pipet M37) + 4.0 mL of MW21712 (pipet M37)

10x diln.: 1.0 mL of sample (pipet M19) + 9.0 mL of MW21712 (pipet M25)

5x diln.: 1.6 mL of sample (pipet M19) + 6.4 mL of MW21712 (pipet M37)

50x diln.: 0.20 mL of sample (pipet M27) + 9.80 mL of MW21712 (pipet M37)

Post Spike: 4ul MS2399 (pipet M17), 80ul MS2411 (pipet M27), 40ul MS2444 (pipet M27), 40ul MS2401 (pipet M27) to 8.0mL of sample (pipet M31)

INSTRUMENT RUNLOG

Instrument: ICAP 6500

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
Blank	1.000	IQI29A	09/29/2023	10:39	TT
Std 1	1.000	IQI29A	09/29/2023	10:43	TT
ICV	1.000	IQI29A	09/29/2023	10:48	TT
ICB	1.000	IQI29A	09/29/2023	10:52	TT
PQL	1.000	IQI29A	09/29/2023	10:56	TT
ICSA	1.000	IQI29A	09/29/2023	11:01	TT
ICSAB	1.000	IQI29A	09/29/2023	11:05	TT
CCV	1.000	IQI29A	09/29/2023	11:09	TT
CCB	1.000	IQI29A	09/29/2023	11:13	TT
LRS1	1.000	IQI29A	09/29/2023	11:18	TT
LRS2	1.000	IQI29A	09/29/2023	11:23	TT
CCV	1.000	IQI29A	09/29/2023	11:27	TT
CCB	1.000	IQI29A	09/29/2023	11:31	TT
LCSWQI28ICW1	1.000	IQI29A	09/29/2023	11:36	TT
PBWQI28ICW1	1.000	IQI29A	09/29/2023	11:42	TT
LCSWQI25ICW1	1.000	IQI29A	09/29/2023	11:47	TT
PBWQI25ICW1	1.000	IQI29A	09/29/2023	11:51	TT
LCSWQI28ICW2	1.000	IQI29A	09/29/2023	11:55	TT
PBWQI28ICW2	1.000	IQI29A	09/29/2023	12:00	TT
LC2WQI27ICW1	1.000	IQI29A	09/29/2023	12:04	TT
LCSWQI27ICW1	1.000	IQI29A	09/29/2023	12:08	TT
PBWQI27ICW1	1.000	IQI29A	09/29/2023	12:12	TT
LC2WQI25ICW1	1.000	IQI29A	09/29/2023	12:17	TT
CCV	1.000	IQI29A	09/29/2023	12:21	TT
CCB	1.000	IQI29A	09/29/2023	12:25	TT
SQ5008-001	1.000	IQI29A	09/29/2023	12:30	TT
PBT1813A	1.000	IQI29A	09/29/2023	12:34	TT
PBT1814A	1.000	IQI29A	09/29/2023	12:38	TT
RINSE1	1.000	IQI29A	09/29/2023	12:43	TT
SQ5041-001	1.000	IQI29A	09/29/2023	12:47	TT
SQ5080-002	1.000	IQI29A	09/29/2023	12:52	TT
SQ5080-002L	5.000	IQI29A	09/29/2023	12:56	TT
SQ5080-002N	1.000	IQI29A	09/29/2023	13:00	TT
SQ5080-002O	1.000	IQI29A	09/29/2023	13:04	TT
SQ5080-003	1.000	IQI29A	09/29/2023	13:08	TT
CCV	1.000	IQI29A	09/29/2023	13:13	TT
CCB	1.000	IQI29A	09/29/2023	13:17	TT
SQ5102-001	1.000	IQI29A	09/29/2023	13:21	TT
SQ5102-002	1.000	IQI29A	09/29/2023	13:26	TT
SQ5102-003	1.000	IQI29A	09/29/2023	13:30	TT
SQ5102-004	1.000	IQI29A	09/29/2023	13:34	TT
SQ5102-005	1.000	IQI29A	09/29/2023	13:39	TT
SQ5102-006	1.000	IQI29A	09/29/2023	13:43	TT
SQ5102-001	1.000	IQI29A	09/29/2023	13:47	TT

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
SQ5109-001	1.000	IQI29A	09/29/2023	13:52	TT
SQ5109-001L	5.000	IQI29A	09/29/2023	13:56	TT
SQ5109-001N	1.000	IQI29A	09/29/2023	14:00	TT
CCV	1.000	IQI29A	09/29/2023	14:05	TT
CCB	1.000	IQI29A	09/29/2023	14:09	TT
SQ5109-001O	1.000	IQI29A	09/29/2023	14:13	TT
SQ5170-001	1.000	IQI29A	09/29/2023	14:18	TT
SQ5170-002	1.000	IQI29A	09/29/2023	14:22	TT
SQ5170-003	1.000	IQI29A	09/29/2023	14:26	TT
SQ5170-004	1.000	IQI29A	09/29/2023	14:31	TT
SQ4950-001	2.000	IQI29A	09/29/2023	14:35	TT
SQ5078-004	10.00	IQI29A	09/29/2023	14:39	TT
RINSE4	1.000	IQI29A	09/29/2023	14:44	TT
SQ5112-001	1.000	IQI29A	09/29/2023	14:48	TT
SQ5112-002	1.000	IQI29A	09/29/2023	14:53	TT
CCV	1.000	IQI29A	09/29/2023	14:57	TT
CCB	1.000	IQI29A	09/29/2023	15:01	TT
SQ5112-003	1.000	IQI29A	09/29/2023	15:05	TT
SQ5135-001	1.000	IQI29A	09/29/2023	15:10	TT
SQ5151-001	1.000	IQI29A	09/29/2023	15:14	TT
LCSOQI27ICS1	1.000	IQI29A	09/29/2023	15:18	TT
PBSQI27ICS1	1.000	IQI29A	09/29/2023	15:23	TT
SQ5083-001	1.000	IQI29A	09/29/2023	15:27	TT
SQ5083-002	1.000	IQI29A	09/29/2023	15:31	TT
SQ5169-002	1.000	IQI29A	09/29/2023	15:36	TT
SQ5040-001	1.000	IQI29A	09/29/2023	15:40	TT
SQ5077-002	1.000	IQI29A	09/29/2023	15:44	TT
CCV	1.000	IQI29A	09/29/2023	15:49	TT
CCB	1.000	IQI29A	09/29/2023	15:53	TT
SQ5115-001	1.000	IQI29A	09/29/2023	15:57	TT
SQ5115-002	1.000	IQI29A	09/29/2023	16:01	TT
SQ5115-003	1.000	IQI29A	09/29/2023	16:06	TT
SQ5115-005	1.000	IQI29A	09/29/2023	16:10	TT
SQ5115-008	1.000	IQI29A	09/29/2023	16:14	TT
SQ5115-009	1.000	IQI29A	09/29/2023	16:18	TT
SQ5115-010	1.000	IQI29A	09/29/2023	16:23	TT
SQ5115-011	1.000	IQI29A	09/29/2023	16:27	TT
RINSE6	1.000	IQI29A	09/29/2023	16:31	TT
LCSWQI27ICW2	1.000	IQI29A	09/29/2023	16:36	TT
CCV	1.000	IQI29A	09/29/2023	16:40	TT
CCB	1.000	IQI29A	09/29/2023	16:44	TT
PBWQI27ICW2	1.000	IQI29A	09/29/2023	16:48	TT
SQ5131-002	10.00	IQI29A	09/29/2023	16:53	TT
SQ5131-017	10.00	IQI29A	09/29/2023	16:57	TT
SQ5131-019	10.00	IQI29A	09/29/2023	17:02	TT
SQ5131-025	10.00	IQI29A	09/29/2023	17:06	TT
CCV	1.000	IQI29A	09/29/2023	17:10	TT

Intensity Report

Author:

Published: 10/2/2023 9:07:58AM

Notes:

Blank

Method Name: FAST-2022_POP Method Revision: 444

Analyst Name: TT

Acquire Date: 9/29/2023 10:39:31AM Sample Type: Standard

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.00003900	Cts/S	0.00002200	57.24	7.153
Al3961_R		-0.0001250	Cts/S	0.0000	0.3831	-1.160
As1891_A		-0.0004080	Cts/S	0.00003300	8.013	-3.205
B_2089_A		0.0005550	Cts/S	0.000003000	0.4641	4.364
Ba4554_R		0.001800	Cts/S	0.0002500	13.89	16.71
Be3130_R		-0.0001040	Cts/S	0.00004500	43.20	-0.9619
Ca3158_R		-0.003040	Cts/S	0.0001670	5.492	-28.21
Cd2265_A		-0.0003310	Cts/S	0.000002000	0.4554	-2.599
Co2286_A		0.00007400	Cts/S	0.00002400	32.69	0.5835
Cr2677_A		0.000005000	Cts/S	0.000001000	25.36	0.9832
Cu3273_A		0.00008200	Cts/S	0.000009000	10.59	14.97
Fe2599_R		0.00004000	Cts/S	0.000006000	15.47	0.3746
K_7664_R		0.006428	Cts/S	0.0002940	4.571	59.66
Li6707_R		-0.00006200	Cts/S	0.0004860	787.2	-0.5663
Mg2025_A		-0.0008120	Cts/S	0.00003800	4.678	-6.383
Mn2576_R		-0.0001750	Cts/S	0.00002400	13.85	-1.623
Mo2020_A		0.0001730	Cts/S	0.00001900	10.80	1.356
Na5895_R		0.03831	Cts/S	0.001018	2.657	355.5
Ni2316_A		-0.0001840	Cts/S	0.00001400	7.427	-1.446
Pb2203_A		-0.0001440	Cts/S	0.00005500	38.19	-1.134
Sb2068_A		-0.00004100	Cts/S	0.000001000	3.469	-0.3196
Se1960_A		0.0002980	Cts/S	0.000005000	1.634	2.339
Si2516_R		0.001473	Cts/S	0.000006000	0.3947	13.67
Sn1899_A		0.0003110	Cts/S	0.00001500	4.749	2.441
Sr4215_R		-0.003576	Cts/S	0.0001390	3.895	-33.19
Ti3349_A		0.00001500	Cts/S	0.00003400	234.3	2.675
Tl1908_A		-0.0003240	Cts/S	0.0001020	31.52	-2.547
V_2924_A		-0.00004300	Cts/S	0.000006000	13.57	-7.910
Zn2062_A		0.0001820	Cts/S	0.000005000	2.628	1.430
Y_3600_R		9,280.2	Cts/S	28.215	0.30403	9,280.2
Y_2243_A		7,857.4	Cts/S	44.611	0.56776	7,857.4
Y_3600_A		182,400	Cts/S	367.21	0.20132	182,400

Std 1

Method Name: FAST-2022_POP Method Revision: 444

Analyst Name: TT

Acquire Date: 9/29/2023 10:43:54AM Sample Type: Standard

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.1001	Cts/S	0.0001790	0.1788	17,700
Al3961_R		1.535	Cts/S	0.01059	0.6897	14,100
As1891_A		0.04491	Cts/S	0.0002090	0.4654	343.4
B_2089_A		0.2309	Cts/S	0.0003140	0.1362	1,766
Ba4554_R		4.536	Cts/S	0.002659	0.05862	41,660
Be3130_R		5.216	Cts/S	0.04601	0.8821	47,890
Ca3158_R		1.351	Cts/S	0.01093	0.8092	12,410
Cd2265_A		2.257	Cts/S	0.003466	0.1536	17,260
Co2286_A		0.5043	Cts/S	0.0009220	0.1828	3,856
Cr2677_A		0.06705	Cts/S	0.0001990	0.2966	11,860
Cu3273_A		0.1135	Cts/S	0.0003200	0.2818	20,070
Fe2599_R		2.320	Cts/S	0.01991	0.8581	21,300
K_7664_R		1.175	Cts/S	0.002553	0.2173	10,790
Li6707_R		0.9983	Cts/S	0.002597	0.2601	9,166

Std 1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 10:43:54AM
Sample Type: Standard

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Mg2025_A		1.069	Cts/S	0.0005300	0.04955	8,176
Mn2576_R		0.3416	Cts/S	0.002786	0.8154	3,137
Mo2020_A		0.3357	Cts/S	0.001146	0.3414	2,567
Na5895_R		5.075	Cts/S	0.02859	0.5634	46,600
Ni2316_A		0.3581	Cts/S	0.00009100	0.02529	2,738
Pb2203_A		0.1701	Cts/S	0.0003110	0.1831	1,300
Sb2068_A		0.08178	Cts/S	0.0004610	0.5633	625.4
Se1960_A		0.03437	Cts/S	0.00006400	0.1859	262.9
Si2516_R		0.8066	Cts/S	0.002083	0.2583	7,407
Sn1899_A		0.07927	Cts/S	0.000001000	0.001536	606.2
Sr4215_R		5.093	Cts/S	0.0005780	0.01135	46,770
Ti3349_A		0.4108	Cts/S	0.0001190	0.02886	72,660
Tl1908_A		0.06741	Cts/S	0.0001940	0.2880	515.5
V_2924_A		0.07595	Cts/S	0.00004600	0.06021	13,430
Zn2062_A		0.4776	Cts/S	0.001719	0.3599	3,652
Y_3600_R		9,182.4	Cts/S	28.885	0.31457	9,182.4
Y_2243_A		7,647.1	Cts/S	24.079	0.31487	7,647.1
Y_3600_A		176,850	Cts/S	526.19	0.29753	176,850

ICV

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 10:48:01AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		405.3	ug/L	6.003	1.481	7,207
Al3961_R		10,190	ug/L	37.02	0.3632	5,655
As1891_A		397.9	ug/L	0.7563	0.1901	135.6
B_2089_A		405.3	ug/L	0.3257	0.08036	723.4
Ba4554_R		409.2	ug/L	0.7682	0.1877	16,780
Be3130_R		407.6	ug/L	1.112	0.2729	19,210
Ca3158_R		10,120	ug/L	46.90	0.4636	4,923
Cd2265_A		409.3	ug/L	0.6723	0.1643	7,108
Co2286_A		412.2	ug/L	0.8275	0.2007	1,600
Cr2677_A		407.1	ug/L	7.292	1.791	4,847
Cu3273_A		406.8	ug/L	4.148	1.020	8,208
Fe2599_R		10,270	ug/L	25.91	0.2522	8,613
K_7664_R		13,940	ug/L	26.32	0.1888	5,944
Li6707_R		416.8	ug/L	0.1118	0.02681	3,758
Mg2025_A		10,420	ug/L	36.05	0.3459	3,426
Mn2576_R		411.0	ug/L	1.004	0.2442	1,268
Mo2020_A		415.7	ug/L	0.3749	0.09018	1,075
Na5895_R		10,390	ug/L	35.03	0.3370	19,260
Ni2316_A		414.1	ug/L	0.8768	0.2118	1,140
Pb2203_A		416.8	ug/L	0.9185	0.2204	544.9
Sb2068_A		412.9	ug/L	2.482	0.6012	259.6
Se1960_A		402.2	ug/L	2.424	0.6028	107.8
Si2516_R		10,080	ug/L	13.63	0.1353	2,888
Sn1899_A		415.2	ug/L	0.3719	0.08957	254.7
Sr4215_R		411.3	ug/L	0.6175	0.1501	18,910
Ti3349_A		408.8	ug/L	3.371	0.8246	29,820
Tl1908_A		421.2	ug/L	0.1564	0.03713	217.1
V_2924_A		409.3	ug/L	4.671	1.141	5,515
Zn2062_A		412.7	ug/L	1.713	0.4150	1,518
Y_3600_R		9,034.4	Cts/S	52.426	0.58030	9,034.4
Y_2243_A		7,697.0	Cts/S	12.753	0.16569	7,697.0
Y_3600_A		177,580	Cts/S	1,681.1	0.94666	177,580

ICB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 10:52:13AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.1329	ug/L	0.09595	72.22	9.516
Al3961_R		-5.582	ug/L	0.8852	15.86	-4.240
As1891_A		0.8280	ug/L	0.2033	24.55	-2.906
B_2089_A		0.08320	ug/L	0.1131	135.9	4.633
Ba4554_R		0.02010	ug/L	0.09805	487.8	17.33
Be3130_R		-0.008799	ug/L	0.06912	785.5	-1.374
Ca3158_R		-6.767	ug/L	0.2846	4.205	-31.23
Cd2265_A		-0.02422	ug/L	0.07456	307.9	-3.017
Co2286_A		-0.04329	ug/L	0.02192	50.65	0.4123
Cr2677_A		0.06228	ug/L	0.07338	117.8	1.735
Cu3273_A		-0.09295	ug/L	0.1199	129.0	12.99
Fe2599_R		3.859	ug/L	0.7091	18.38	3.652
K_7664_R		0.9199	ug/L	30.38	3,303	59.33
Li6707_R		-0.3997	ug/L	0.5518	138.1	-4.223
Mg2025_A		-1.296	ug/L	2.659	205.1	-6.802
Mn2576_R		-0.04084	ug/L	0.4865	1,191	-1.732
Mo2020_A		2.274	ug/L	0.2448	10.76	7.348
Na5895_R		-21.00	ug/L	5.216	24.84	312.4
Ni2316_A		0.004696	ug/L	0.3101	6,605	-1.431
Pb2203_A		-0.1675	ug/L	0.8967	535.4	-1.362
Sb2068_A		0.6308	ug/L	0.4309	68.31	0.08402
Se1960_A		0.7081	ug/L	2.521	356.1	2.527
Si2516_R		39.82	ug/L	11.58	29.07	25.04
Sn1899_A		-0.2395	ug/L	0.6767	282.6	2.292
Sr4215_R		0.1775	ug/L	0.1271	71.58	-24.49
Ti3349_A		0.07450	ug/L	0.005202	6.983	8.187
Tl1908_A		1.105	ug/L	0.4929	44.59	-1.959
V_2924_A		0.1937	ug/L	0.09891	51.07	-5.448
Zn2062_A		0.02771	ug/L	0.02547	91.91	1.533
Y_3600_R		9,167.6	Cts/S	4.2690	0.046567	9,167.6
Y_2243_A		7,852.9	Cts/S	6.6915	0.085210	7,852.9
Y_3600_A		181,340	Cts/S	380.77	0.20998	181,340

PQL

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 10:56:37AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		9.530	ug/L	0.2018	2.117	181.1
Al3961_R		290.3	ug/L	6.068	2.090	162.5
As1891_A		7.500	ug/L	0.6444	8.592	-0.5240
B_2089_A		49.92	ug/L	0.3159	0.6328	92.02
Ba4554_R		5.279	ug/L	0.2620	4.963	236.2
Be3130_R		4.924	ug/L	0.09652	1.960	234.4
Ca3158_R		98.36	ug/L	5.372	5.461	21.01
Cd2265_A		5.072	ug/L	0.005410	0.1067	86.81
Co2286_A		10.29	ug/L	0.1812	1.761	41.16
Cr2677_A		10.08	ug/L	0.1112	1.103	124.3
Cu3273_A		24.87	ug/L	0.6108	2.456	529.2
Fe2599_R		105.7	ug/L	3.026	2.863	90.40
K_7664_R		996.2	ug/L	4.817	0.4836	486.5
Li6707_R		105.5	ug/L	0.5823	0.5519	966.3
Mg2025_A		105.4	ug/L	1.086	1.030	29.19
Mn2576_R		5.482	ug/L	0.8000	14.59	15.60
Mo2020_A		10.97	ug/L	0.03478	0.3169	30.11
Na5895_R		1,014	ug/L	11.96	1.180	2,227
Ni2316_A		10.54	ug/L	0.1208	1.146	28.07

PQL

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 10:56:37AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		5.660	ug/L	0.2510	4.434	6.372
Sb2068_A		8.152	ug/L	0.1816	2.228	4.269
Se1960_A		8.852	ug/L	2.536	28.65	4.688
Si2516_R		218.6	ug/L	6.066	2.775	76.88
Sn1899_A		103.6	ug/L	0.3868	0.3734	66.33
Sr4215_R		10.24	ug/L	0.2790	2.726	446.1
Ti3349_A		15.02	ug/L	0.2134	1.421	1,129
Tl1908_A		16.40	ug/L	0.006434	0.03924	6.146
V_2924_A		10.15	ug/L	0.05076	0.4999	132.8
Zn2062_A		20.41	ug/L	0.05420	0.2655	77.60
Y_3600_R		9,180.1	Cts/S	27.558	0.30019	9,180.1
Y_2243_A		7,812.3	Cts/S	5.3995	0.069115	7,812.3
Y_3600_A		182,480	Cts/S	1,929.4	1.0573	182,480

ICSA

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:01:00AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.6549	ug/L	0.3293	50.28	-0.5354
Al3961_R		518,800	ug/L	1,672	0.3223	278,400
As1891_A		3.008	ug/L	0.3244	10.78	-15.08
B_2089_A		-0.05953	ug/L	0.4436	745.2	3.659
Ba4554_R		2.482	ug/L	0.08489	3.420	114.2
Be3130_R		0.07809	ug/L	0.02485	31.83	2.428
Ca3158_R		479,100	ug/L	103.8	0.02166	227,000
Cd2265_A		1.448	ug/L	0.04239	2.928	395.7
Co2286_A		-0.2317	ug/L	0.3144	135.7	3.483
Cr2677_A		4.095	ug/L	0.2174	5.308	30.00
Cu3273_A		-3.691	ug/L	0.7174	19.44	-18.69
Fe2599_R		190,300	ug/L	1,249	0.6564	154,400
K_7664_R		231.5	ug/L	20.51	8.860	150.9
Li6707_R		8.772	ug/L	1.473	16.79	76.01
Mg2025_A		452,000	ug/L	573.5	0.1269	132,900
Mn2576_R		-0.7452	ug/L	0.5363	71.96	0.8433
Mo2020_A		-1.836	ug/L	0.1536	8.364	-3.066
Na5895_R		222.0	ug/L	5.399	2.432	726.4
Ni2316_A		1.929	ug/L	0.1092	5.660	-11.54
Pb2203_A		1.623	ug/L	1.201	74.00	-48.84
Sb2068_A		-2.614	ug/L	1.207	46.18	1.579
Se1960_A		-1.703	ug/L	2.535	148.9	6.480
Si2516_R		28.06	ug/L	12.83	45.73	13.93
Sn1899_A		6.824	ug/L	0.7323	10.73	5.874
Sr4215_R		4.442	ug/L	0.2105	4.739	166.8
Ti3349_A		5.708	ug/L	0.05151	0.9025	369.7
Tl1908_A		-2.375	ug/L	0.5326	22.43	-2.568
V_2924_A		-0.2245	ug/L	0.05596	24.93	2.299
Zn2062_A		3.318	ug/L	0.1856	5.594	12.21
Y_3600_R		8,748.1	Cts/S	81.974	0.93705	8,748.1
Y_2243_A		6,914.0	Cts/S	11.292	0.16333	6,914.0
Y_3600_A		156,680	Cts/S	990.59	0.63222	156,680

ICSAB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:05:21AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

ICSAB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:05:21AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		223.8	ug/L	0.4762	0.2128	3,499
Al3961_R		512,400	ug/L	4,823	0.9412	272,600
As1891_A		101.6	ug/L	1.046	1.029	15.99
B_2089_A		497.7	ug/L	5.456	1.096	780.1
Ba4554_R		519.2	ug/L	2.263	0.4358	20,440
Be3130_R		507.9	ug/L	0.1369	0.02695	22,970
Ca3158_R		485,700	ug/L	6,023	1.240	228,100
Cd2265_A		962.9	ug/L	13.25	1.376	15,060
Co2286_A		473.8	ug/L	5.915	1.248	1,624
Cr2677_A		500.1	ug/L	0.2710	0.05419	5,215
Cu3273_A		541.3	ug/L	1.283	0.2371	9,610
Fe2599_R		191,500	ug/L	507.6	0.2651	154,100
K_7664_R		21,960	ug/L	89.04	0.4054	8,960
Li6707_R		562.9	ug/L	1.227	0.2180	4,873
Mg2025_A		459,500	ug/L	4,413	0.9603	132,500
Mn2576_R		488.0	ug/L	3.468	0.7106	1,449
Mo2020_A		480.8	ug/L	6.662	1.386	1,095
Na5895_R		21,570	ug/L	78.51	0.3639	38,020
Ni2316_A		939.0	ug/L	12.70	1.352	2,266
Pb2203_A		45.87	ug/L	0.8671	1.890	3.426
Sb2068_A		635.7	ug/L	7.473	1.175	354.9
Se1960_A		54.38	ug/L	3.596	6.612	19.45
Si2516_R		1,984	ug/L	1.519	0.07656	549.2
Sn1899_A		476.6	ug/L	8.980	1.884	257.2
Sr4215_R		513.5	ug/L	3.486	0.6788	22,670
Ti3349_A		499.0	ug/L	0.6414	0.1286	31,960
Tl1908_A		89.41	ug/L	4.073	4.556	39.24
V_2924_A		502.7	ug/L	1.407	0.2798	5,962
Zn2062_A		954.0	ug/L	16.21	1.699	3,091
Y_3600_R		8,672.8	Cts/S	117.01	1.3492	8,672.8
Y_2243_A		6,779.6	Cts/S	59.247	0.87390	6,779.6
Y_3600_A		155,890	Cts/S	383.67	0.24611	155,890

CCV

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:09:38AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		518.0	ug/L	0.5391	0.1041	9,100
Al3961_R		13,030	ug/L	40.27	0.3091	7,278
As1891_A		510.9	ug/L	0.1249	0.02444	173.2
B_2089_A		516.4	ug/L	0.02396	0.004639	909.9
Ba4554_R		515.5	ug/L	1.263	0.2450	21,270
Be3130_R		519.3	ug/L	1.048	0.2018	24,630
Ca3158_R		12,880	ug/L	36.33	0.2821	6,317
Cd2265_A		516.1	ug/L	0.1401	0.02715	8,866
Co2286_A		522.7	ug/L	0.4592	0.08785	2,007
Cr2677_A		520.3	ug/L	0.9980	0.1918	6,123
Cu3273_A		517.5	ug/L	0.4138	0.07996	10,310
Fe2599_R		12,990	ug/L	25.18	0.1939	10,960
K_7664_R		12,870	ug/L	49.13	0.3816	5,531
Li6707_R		521.0	ug/L	0.9515	0.1826	4,730
Mg2025_A		13,040	ug/L	50.39	0.3863	4,244
Mn2576_R		523.2	ug/L	2.996	0.5727	1,625
Mo2020_A		519.3	ug/L	0.6483	0.1249	1,327
Na5895_R		13,040	ug/L	7.828	0.06004	24,240
Ni2316_A		522.9	ug/L	0.2832	0.05417	1,425

CCV

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:09:38AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		524.2	ug/L	0.3169	0.06046	678.1
Sb2068_A		503.2	ug/L	5.763	1.145	313.2
Se1960_A		507.1	ug/L	2.548	0.5024	133.8
Si2516_R		12,940	ug/L	89.03	0.6883	3,728
Sn1899_A		521.4	ug/L	0.3862	0.07407	315.8
Sr4215_R		515.2	ug/L	1.276	0.2477	23,850
Ti3349_A		518.0	ug/L	0.3290	0.06350	37,350
Tl1908_A	W	530.2	ug/L	3.015	0.5687	271.0
V_2924_A		512.5	ug/L	1.810	0.3532	6,825
Zn2062_A		518.2	ug/L	0.3472	0.06700	1,885
Y_3600_R		9,094.1	Cts/S	52.991	0.58269	9,094.1
Y_2243_A		7,612.5	Cts/S	12.501	0.16422	7,612.5
Y_3600_A		175,480	Cts/S	672.16	0.38304	175,480

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:13:45AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.1668	ug/L	0.2611	156.6	4.070
Al3961_R		-3.727	ug/L	6.777	181.8	-3.191
As1891_A		1.259	ug/L	0.6373	50.61	-2.696
B_2089_A		-0.05134	ug/L	0.1250	243.5	4.324
Ba4554_R		0.1157	ug/L	0.1676	144.8	21.52
Be3130_R		0.05642	ug/L	0.04064	72.03	1.746
Ca3158_R		-9.942	ug/L	2.576	25.91	-33.05
Cd2265_A		-0.007825	ug/L	0.02216	283.2	-2.676
Co2286_A		0.1226	ug/L	0.1844	150.3	1.046
Cr2677_A		-0.1067	ug/L	0.04536	42.50	-0.3146
Cu3273_A		-0.4317	ug/L	0.5036	116.7	5.937
Fe2599_R		2.126	ug/L	0.1643	7.728	2.195
K_7664_R		16.40	ug/L	8.876	54.11	66.48
Li6707_R		-0.8688	ug/L	1.417	163.1	-8.668
Mg2025_A		-0.2631	ug/L	2.226	846.3	-6.317
Mn2576_R		0.06314	ug/L	0.01518	24.05	-1.417
Mo2020_A		2.564	ug/L	0.5780	22.54	7.946
Na5895_R		-29.01	ug/L	12.55	43.27	299.7
Ni2316_A		0.03078	ug/L	0.07262	235.9	-1.330
Pb2203_A		-0.2405	ug/L	0.5099	212.0	-1.433
Sb2068_A	W	5.189	ug/L	0.7772	14.98	2.927
Se1960_A		1.432	ug/L	0.9493	66.31	2.665
Si2516_R		13.93	ug/L	6.772	48.60	17.69
Sn1899_A		0.1647	ug/L	0.1721	104.5	2.491
Sr4215_R		0.07213	ug/L	0.08678	120.3	-29.61
Ti3349_A		0.09517	ug/L	0.07835	82.33	9.674
Tl1908_A		0.1633	ug/L	1.103	675.2	-2.412
V_2924_A		0.2242	ug/L	0.08119	36.22	-5.022
Zn2062_A		0.07355	ug/L	0.1037	141.0	1.671
Y_3600_R		9,236.3	Cts/S	123.03	1.3320	9,236.3
Y_2243_A		7,693.9	Cts/S	15.509	0.20158	7,693.9
Y_3600_A		180,030	Cts/S	1,297.5	0.72070	180,030

LRS1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:18:09AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

LRS1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:18:09AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		2,129	ug/L	4.244	0.1993	35,380
Al3961_R		21.62	ug/L	5.617	25.99	113.5
As1891_A		21,150	ug/L	129.9	0.6140	6,755
B_2089_A		21,700	ug/L	130.5	0.6017	34,310
Ba4554_R		20,080	ug/L	70.25	0.3498	806,600
Be3130_R		20,030	ug/L	461.0	2.302	925,200
Ca3158_R		3.603	ug/L	3.042	84.42	-7.061
Cd2265_A		20,080	ug/L	91.23	0.4543	317,500
Co2286_A		21,300	ug/L	142.0	0.6667	75,470
Cr2677_A		20,590	ug/L	29.31	0.1424	229,400
Cu3273_A		21,180	ug/L	110.7	0.5226	398,700
Fe2599_R		0.3023	ug/L	0.7729	255.7	0.09294
K_7664_R		-3.708	ug/L	7.898	213.0	55.40
Li6707_R		20,830	ug/L	32.46	0.1559	184,100
Mg2025_A		120.8	ug/L	7.130	5.901	933.8
Mn2576_R		20,350	ug/L	44.33	0.2178	61,610
Mo2020_A		5,377	ug/L	32.10	0.5970	12,670
Na5895_R		244.8	ug/L	4.274	1.746	776.1
Ni2316_A		20,980	ug/L	139.7	0.6659	52,850
Pb2203_A		21,760	ug/L	127.2	0.5847	26,090
Sb2068_A		21,630	ug/L	158.7	0.7336	12,430
Se1960_A		21,290	ug/L	144.2	0.6775	5,092
Si2516_R		289.7	ug/L	38.92	13.43	75.16
Sn1899_A		20,980	ug/L	146.3	0.6974	11,650
Sr4215_R		20,450	ug/L	310.7	1.519	923,100
Ti3349_A		19,540	ug/L	28.42	0.1455	1,334,000
Tl1908_A		21,120	ug/L	125.0	0.5918	10,060
V_2924_A		21,090	ug/L	30.06	0.1425	268,000
Zn2062_A		20,740	ug/L	136.5	0.6585	69,570
Y_3600_R		8,857.4	Cts/S	7.8822	0.088990	8,857.4
Y_2243_A		7,027.7	Cts/S	32.671	0.46488	7,027.7
Y_3600_A		166,150	Cts/S	733.03	0.44118	166,150

LRS2

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:23:00AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.6994	ug/L	0.3295	47.11	-0.5041
Al3961_R		498,600	ug/L	1,136	0.2279	274,200
As1891_A		16.53	ug/L	0.7624	4.612	-13.35
B_2089_A		9.561	ug/L	1.603	16.76	19.34
Ba4554_R		0.9423	ug/L	0.01230	1.305	54.44
Be3130_R		1.219	ug/L	0.1580	12.96	55.80
Ca3158_R		461,900	ug/L	1,044	0.2260	224,300
Cd2265_A		1.287	ug/L	0.03261	2.533	476.2
Co2286_A		0.07506	ug/L	0.4001	533.1	5.399
Cr2677_A		0.05701	ug/L	0.05955	104.5	-15.39
Cu3273_A		-6.023	ug/L	0.4164	6.914	-7.903
Fe2599_R		228,900	ug/L	786.8	0.3438	190,400
K_7664_R		301,700	ug/L	1,259	0.4173	126,500
Li6707_R		28.78	ug/L	0.9338	3.244	257.1
Mg2025_A		181,800	ug/L	15.93	0.008763	54,240
Mn2576_R		0.2495	ug/L	1.237	495.7	3.655
Mo2020_A		9.356	ug/L	2.139	22.86	23.24
Na5895_R		197,000	ug/L	1,441	0.7315	356,200
Ni2316_A		1.612	ug/L	0.4677	29.01	-15.59

LRS2

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:23:00AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		7.194	ug/L	0.5513	7.663	-38.84
Sb2068_A		-1.150	ug/L	0.5958	51.82	2.701
Se1960_A		14.54	ug/L	1.619	11.14	10.66
Si2516_R		48,380	ug/L	21.70	0.04486	13,700
Sn1899_A		8.240	ug/L	0.06205	0.7530	6.744
Sr4215_R		6.257	ug/L	0.08029	1.283	253.9
Ti3349_A		7.610	ug/L	0.2522	3.314	498.0
Tl1908_A		1.685	ug/L	1.749	103.8	-0.7413
V_2924_A		0.1895	ug/L	0.007998	4.221	8.687
Zn2062_A		4.844	ug/L	0.09664	1.995	17.52
Y_3600_R		8,965.5	Cts/S	61.701	0.68821	8,965.5
Y_2243_A		7,014.3	Cts/S	20.775	0.29618	7,014.3
Y_3600_A		158,590	Cts/S	786.17	0.49572	158,590

CCV

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:27:27AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		508.3	ug/L	2.779	0.5467	8,979
Al3961_R		12,780	ug/L	34.29	0.2682	7,240
As1891_A		510.3	ug/L	0.2429	0.04760	174.9
B_2089_A		511.8	ug/L	1.058	0.2067	912.0
Ba4554_R		508.1	ug/L	1.253	0.2465	21,260
Be3130_R		509.8	ug/L	0.5992	0.1175	24,520
Ca3158_R		12,750	ug/L	25.07	0.1967	6,339
Cd2265_A		504.9	ug/L	0.4070	0.08061	8,774
Co2286_A		512.3	ug/L	0.7550	0.1474	1,990
Cr2677_A		512.1	ug/L	1.226	0.2394	6,059
Cu3273_A		511.9	ug/L	1.005	0.1962	10,260
Fe2599_R		12,770	ug/L	25.42	0.1991	10,930
K_7664_R		13,050	ug/L	7.942	0.06088	5,683
Li6707_R		514.8	ug/L	1.831	0.3557	4,739
Mg2025_A		12,780	ug/L	35.12	0.2749	4,204
Mn2576_R		509.3	ug/L	7.803	1.532	1,604
Mo2020_A		511.5	ug/L	1.233	0.2412	1,323
Na5895_R		12,910	ug/L	30.74	0.2382	24,330
Ni2316_A		512.6	ug/L	0.2254	0.04398	1,413
Pb2203_A		512.6	ug/L	0.1723	0.03362	670.7
Sb2068_A		494.1	ug/L	4.434	0.8974	311.1
Se1960_A		505.0	ug/L	1.430	0.2832	134.8
Si2516_R		12,810	ug/L	45.97	0.3589	3,743
Sn1899_A		507.5	ug/L	0.3991	0.07864	311.0
Sr4215_R		508.1	ug/L	1.924	0.3788	23,850
Ti3349_A		514.9	ug/L	0.4651	0.09034	37,330
Tl1908_A		518.7	ug/L	1.513	0.2918	268.1
V_2924_A		508.6	ug/L	1.927	0.3789	6,812
Zn2062_A		507.7	ug/L	0.7721	0.1521	1,868
Y_3600_R		9,221.3	Cts/S	99.661	1.0808	9,221.3
Y_2243_A		7,700.6	Cts/S	8.6469	0.11229	7,700.6
Y_3600_A		176,460	Cts/S	99.307	0.056278	176,460

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:31:37AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:31:37AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.1048	ug/L	0.01518	14.48	9.170
Al3961_R		-1.498	ug/L	5.413	361.3	-1.938
As1891_A		3.720	ug/L	1.182	31.77	-1.879
B_2089_A		3.380	ug/L	0.05759	1.704	10.55
Ba4554_R		0.1689	ug/L	0.04460	26.40	23.77
Be3130_R		0.3654	ug/L	0.05423	14.84	16.69
Ca3158_R		-7.918	ug/L	0.1721	2.173	-32.15
Cd2265_A		0.04917	ug/L	0.01871	38.05	-1.728
Co2286_A		0.07921	ug/L	0.0004280	0.5398	0.9012
Cr2677_A		-0.1368	ug/L	0.2961	216.5	-0.7103
Cu3273_A		0.08983	ug/L	0.02076	23.11	17.04
Fe2599_R		3.483	ug/L	0.9202	26.42	3.370
K_7664_R		180.1	ug/L	13.28	7.370	137.6
Li6707_R		3.947	ug/L	0.3283	8.318	35.94
Mg2025_A		0.2751	ug/L	1.380	501.7	-6.285
Mn2576_R		0.2565	ug/L	0.1513	58.97	-0.8096
Mo2020_A		3.969	ug/L	0.5140	12.95	11.86
Na5895_R		1.858	ug/L	5.185	279.1	358.4
Ni2316_A		0.2597	ug/L	0.2834	109.1	-0.7161
Pb2203_A		-0.1620	ug/L	0.1986	122.6	-1.364
Sb2068_A	W	5.343	ug/L	2.198	41.14	3.101
Se1960_A		2.912	ug/L	1.441	49.48	3.125
Si2516_R		12.71	ug/L	12.62	99.33	17.36
Sn1899_A		-0.4886	ug/L	0.3532	72.28	2.145
Sr4215_R		0.09841	ug/L	0.1681	170.8	-28.47
Ti3349_A		0.2638	ug/L	0.007449	2.824	22.67
Tl1908_A		0.6296	ug/L	0.3340	53.05	-2.221
V_2924_A		-0.01290	ug/L	0.01673	129.7	-8.686
Zn2062_A		0.1505	ug/L	0.0005480	0.3644	2.001
Y_3600_R		9,265.9	Cts/S	40.062	0.43236	9,265.9
Y_2243_A		7,880.2	Cts/S	16.869	0.21406	7,880.2
Y_3600_A		184,610	Cts/S	1,489.8	0.80702	184,610

LCSWQI28ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:36:01AM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		53.88	ug/L	0.1148	0.2131	957.2
Al3961_R		2,141	ug/L	13.33	0.6227	1,214
As1891_A		109.7	ug/L	0.4748	0.4330	35.25
B_2089_A		548.2	ug/L	0.9116	0.1663	951.7
Ba4554_R		2,111	ug/L	10.01	0.4740	88,440
Be3130_R		52.45	ug/L	0.2960	0.5644	2,507
Ca3158_R		2,601	ug/L	5.086	0.1955	1,273
Cd2265_A		270.0	ug/L	0.1640	0.06073	4,678
Co2286_A		547.9	ug/L	0.3104	0.05665	2,127
Cr2677_A		221.0	ug/L	0.9757	0.4416	2,617
Cu3273_A		272.7	ug/L	1.282	0.4701	5,461
Fe2599_R		1,053	ug/L	3.775	0.3585	902.6
K_7664_R		10,700	ug/L	60.83	0.5684	4,679
Li6707_R		530.6	ug/L	1.605	0.3026	4,892
Mg2025_A		5,606	ug/L	9.396	0.1676	1,855
Mn2576_R		523.9	ug/L	3.322	0.6340	1,652
Mo2020_A		94.03	ug/L	2.469	2.626	244.1
Na5895_R		7,962	ug/L	9.931	0.1247	15,170
Ni2316_A		553.6	ug/L	0.7320	0.1322	1,526

LCSWQI28ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:36:01AM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		110.7	ug/L	0.6550	0.5920	143.9
Sb2068_A		107.4	ug/L	0.3069	0.2858	65.36
Se1960_A		103.4	ug/L	0.4425	0.4277	29.63
Si2516_R		1,085	ug/L	7.848	0.7236	329.4
Sn1899_A		535.3	ug/L	1.351	0.2523	327.9
Sr4215_R		530.3	ug/L	2.820	0.5318	24,930
Ti3349_A		535.0	ug/L	1.919	0.3587	38,770
Tl1908_A	F	115.7	ug/L	0.4801	0.4148	57.50
V_2924_A		548.2	ug/L	4.084	0.7449	7,407
Zn2062_A		549.5	ug/L	0.7931	0.1443	2,023
Y_3600_R		9,235.7	Cts/S	14.953	0.16190	9,235.7
Y_2243_A		7,699.5	Cts/S	7.5259	0.097746	7,699.5
Y_3600_A		176,390	Cts/S	18.459	0.010465	176,390

PBWQI28ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:42:51AM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.008526	ug/L	0.04501	528.0	7.292
Al3961_R		-2.225	ug/L	8.006	359.8	-2.414
As1891_A	W	4.001	ug/L	1.579	39.46	-1.768
B_2089_A		1.188	ug/L	0.01546	1.301	6.533
Ba4554_R		-0.01202	ug/L	0.04602	382.8	16.25
Be3130_R		0.1867	ug/L	0.06996	37.47	8.103
Ca3158_R		-12.89	ug/L	0.8593	6.669	-34.82
Cd2265_A		-0.003646	ug/L	0.006256	171.6	-2.647
Co2286_A		0.2613	ug/L	0.1179	45.13	1.609
Cr2677_A		0.08021	ug/L	0.3706	462.0	1.948
Cu3273_A		-0.1427	ug/L	0.07463	52.30	12.02
Fe2599_R		3.322	ug/L	1.257	37.85	3.251
K_7664_R		28.98	ug/L	7.237	24.97	72.51
Li6707_R		0.7977	ug/L	0.7977	100.00	6.818
Mg2025_A		9.141	ug/L	0.4183	4.576	-3.293
Mn2576_R		0.1099	ug/L	0.3892	354.2	-1.276
Mo2020_A		1.959	ug/L	0.1381	7.049	6.497
Na5895_R		-55.46	ug/L	0.5318	0.9588	252.8
Ni2316_A		0.2501	ug/L	0.1530	61.19	-0.7394
Pb2203_A		-0.1931	ug/L	0.2336	121.0	-1.392
Sb2068_A		-0.6979	ug/L	0.4058	58.15	-0.7651
Se1960_A		-0.8764	ug/L	0.5649	64.46	2.098
Si2516_R		15.27	ug/L	7.062	46.26	18.22
Sn1899_A		0.2790	ug/L	0.007758	2.781	2.605
Sr4215_R		0.05157	ug/L	0.05793	112.3	-30.85
Ti3349_A		-0.02291	ug/L	0.04769	208.1	0.9485
Tl1908_A		1.852	ug/L	0.04608	2.487	-1.556
V_2924_A		0.3237	ug/L	0.02383	7.362	-3.617
Zn2062_A		-0.1363	ug/L	0.05887	43.18	0.9137
Y_3600_R		9,316.0	Cts/S	64.272	0.68991	9,316.0
Y_2243_A		7,828.1	Cts/S	31.584	0.40347	7,828.1
Y_3600_A		182,150	Cts/S	1,111.6	0.61029	182,150

LCSWQI25ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:47:13AM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

LCSWQI25ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:47:13AM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		53.04	ug/L	0.2999	0.5654	952.1
Al3961_R		2,098	ug/L	35.77	1.704	1,209
As1891_A		106.8	ug/L	0.04220	0.03950	34.58
B_2089_A		540.9	ug/L	0.2780	0.05140	948.1
Ba4554_R		2,058	ug/L	11.48	0.5579	87,640
Be3130_R		51.82	ug/L	0.6019	1.162	2,519
Ca3158_R		2,557	ug/L	5.342	0.2090	1,272
Cd2265_A		264.8	ug/L	0.1489	0.05622	4,631
Co2286_A		536.3	ug/L	0.2279	0.04250	2,102
Cr2677_A		214.0	ug/L	1.013	0.4733	2,561
Cu3273_A		266.4	ug/L	2.044	0.7672	5,390
Fe2599_R		1,040	ug/L	13.25	1.274	906.5
K_7664_R		10,400	ug/L	39.98	0.3843	4,627
Li6707_R		523.0	ug/L	2.767	0.5291	4,903
Mg2025_A		5,543	ug/L	2.933	0.05293	1,851
Mn2576_R		520.0	ug/L	4.375	0.8413	1,667
Mo2020_A		91.76	ug/L	3.125	3.406	240.5
Na5895_R		7,852	ug/L	43.47	0.5536	15,220
Ni2316_A		541.3	ug/L	0.9549	0.1764	1,507
Pb2203_A		110.0	ug/L	0.05671	0.05154	144.5
Sb2068_A		105.6	ug/L	0.5909	0.5598	64.83
Se1960_A		100.7	ug/L	2.073	2.058	29.19
Si2516_R		1,042	ug/L	10.46	1.004	322.2
Sn1899_A		526.6	ug/L	1.716	0.3259	325.6
Sr4215_R		516.6	ug/L	2.531	0.4899	24,690
Ti3349_A		525.1	ug/L	2.165	0.4123	38,450
Tl1908_A		115.1	ug/L	0.4012	0.3486	57.72
V_2924_A		525.0	ug/L	3.004	0.5721	7,165
Zn2062_A		532.8	ug/L	0.1602	0.03007	1,980
Y_3600_R		9,390.4	Cts/S	16.743	0.17830	9,390.4
Y_2243_A		7,772.8	Cts/S	4.2432	0.054591	7,772.8
Y_3600_A		178,210	Cts/S	695.53	0.39028	178,210

PBWQI25ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:51:28AM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.1137	ug/L	0.2153	189.3	4.970
Al3961_R		4.601	ug/L	7.953	172.9	1.487
As1891_A	W	4.126	ug/L	0.1618	3.922	-1.697
B_2089_A		0.6324	ug/L	0.2089	33.03	5.558
Ba4554_R		0.08337	ug/L	0.2412	289.3	19.96
Be3130_R		0.1199	ug/L	0.01607	13.40	4.774
Ca3158_R		-14.36	ug/L	0.9273	6.457	-34.93
Cd2265_A		0.05322	ug/L	0.01480	27.82	-1.619
Co2286_A		0.2704	ug/L	0.09973	36.88	1.620
Cr2677_A		-0.1533	ug/L	0.03787	24.71	-0.8707
Cu3273_A		0.04786	ug/L	0.2595	542.2	15.61
Fe2599_R		2.922	ug/L	0.1316	4.503	2.850
K_7664_R		22.02	ug/L	9.452	42.93	68.23
Li6707_R		1.047	ug/L	0.4066	38.84	9.008
Mg2025_A		7.710	ug/L	0.4599	5.964	-3.709
Mn2576_R		-0.5768	ug/L	0.2337	40.52	-3.401
Mo2020_A		3.466	ug/L	0.4361	12.58	10.30
Na5895_R		-67.94	ug/L	5.485	8.072	225.2
Ni2316_A		0.02342	ug/L	0.006333	27.04	-1.352

PBWQI25ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:51:28AM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		-0.3251	ug/L	0.4075	125.4	-1.547
Sb2068_A		-0.5092	ug/L	0.6399	125.7	-0.6403
Se1960_A		1.170	ug/L	1.275	109.0	2.602
Si2516_R		7.540	ug/L	5.714	75.79	15.66
Sn1899_A		0.8470	ug/L	0.9676	114.2	2.912
Sr4215_R		0.02306	ug/L	0.1634	708.6	-31.66
Ti3349_A		0.1563	ug/L	0.08393	53.69	14.00
Tl1908_A		1.519	ug/L	0.3250	21.40	-1.705
V_2924_A		0.2488	ug/L	0.3526	141.7	-4.717
Zn2062_A	W	14.38	ug/L	0.1424	0.9900	54.38
Y_3600_R		9,147.1	Cts/S	68.102	0.74452	9,147.1
Y_2243_A		7,706.6	Cts/S	53.499	0.69419	7,706.6
Y_3600_A		178,150	Cts/S	1,263.7	0.70936	178,150

LCSWQI28ICW2

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:55:53AM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		51.27	ug/L	0.4824	0.9409	910.9
Al3961_R		2,130	ug/L	3.701	0.1737	1,192
As1891_A		102.6	ug/L	0.2447	0.2385	32.79
B_2089_A		502.5	ug/L	2.599	0.5171	874.0
Ba4554_R		2,116	ug/L	7.377	0.3486	87,510
Be3130_R		53.10	ug/L	0.06848	0.1290	2,507
Ca3158_R		2,557	ug/L	19.32	0.7557	1,235
Cd2265_A		256.1	ug/L	0.4143	0.1618	4,437
Co2286_A		530.4	ug/L	1.199	0.2261	2,060
Cr2677_A		213.6	ug/L	1.688	0.7903	2,528
Cu3273_A		265.9	ug/L	2.687	1.011	5,323
Fe2599_R		1,072	ug/L	3.416	0.3188	906.9
K_7664_R		10,380	ug/L	75.96	0.7317	4,482
Li6707_R		523.9	ug/L	1.214	0.2317	4,768
Mg2025_A		5,144	ug/L	25.27	0.4913	1,703
Mn2576_R		527.5	ug/L	0.5539	0.1050	1,642
Mo2020_A		104.2	ug/L	0.4089	0.3923	270.4
Na5895_R		7,883	ug/L	5.547	0.07037	14,830
Ni2316_A		532.7	ug/L	1.714	0.3217	1,469
Pb2203_A		104.4	ug/L	0.01714	0.01641	135.8
Sb2068_A		102.3	ug/L	1.127	1.101	62.27
Se1960_A		100.3	ug/L	1.218	1.215	28.81
Si2516_R		1,032	ug/L	11.98	1.161	309.9
Sn1899_A		516.5	ug/L	3.279	0.6348	316.5
Sr4215_R		516.9	ug/L	1.960	0.3792	23,990
Ti3349_A		516.4	ug/L	4.954	0.9593	37,410
Tl1908_A		105.5	ug/L	2.051	1.943	52.18
V_2924_A		528.9	ug/L	6.153	1.163	7,141
Zn2062_A		522.2	ug/L	0.2105	0.04032	1,923
Y_3600_R		9,116.9	Cts/S	51.660	0.56663	9,116.9
Y_2243_A		7,701.5	Cts/S	37.712	0.48967	7,701.5
Y_3600_A		176,330	Cts/S	1,628.6	0.92359	176,330

PBWQI28ICW2

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:00:07PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

PBWQI28ICW2

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:00:07PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.09997	ug/L	0.1915	191.6	5.100
Al3961_R		-4.002	ug/L	4.594	114.8	-3.281
As1891_A		1.738	ug/L	2.326	133.8	-2.514
B_2089_A		1.775	ug/L	0.1443	8.129	7.369
Ba4554_R		0.1803	ug/L	0.04704	26.09	23.31
Be3130_R		0.07987	ug/L	0.03249	40.68	2.775
Ca3158_R		-1.213	ug/L	3.547	292.5	-27.66
Cd2265_A		-0.007893	ug/L	0.009653	122.3	-2.661
Co2286_A		-0.05780	ug/L	0.02026	35.05	0.3469
Cr2677_A		0.08671	ug/L	0.1790	206.5	1.959
Cu3273_A		0.06751	ug/L	0.09506	140.8	15.68
Fe2599_R		2.854	ug/L	2.870	100.5	2.709
K_7664_R		22.19	ug/L	17.91	80.71	66.47
Li6707_R		1.354	ug/L	1.201	88.68	11.54
Mg2025_A		0.4833	ug/L	0.7557	156.4	-6.054
Mn2576_R		0.3157	ug/L	0.3206	101.6	-0.5931
Mo2020_A		1.581	ug/L	0.09410	5.952	5.381
Na5895_R		-45.87	ug/L	3.345	7.292	259.0
Ni2316_A		0.1850	ug/L	0.2763	149.4	-0.8993
Pb2203_A		-0.3664	ug/L	1.036	282.7	-1.584
Sb2068_A		0.1721	ug/L	0.6692	388.9	-0.2126
Se1960_A		1.071	ug/L	1.721	160.7	2.556
Si2516_R		5.004	ug/L	5.876	117.4	14.53
Sn1899_A		1.144	ug/L	0.2287	19.99	3.070
Sr4215_R		0.06579	ug/L	0.07438	113.0	-28.85
Ti3349_A		0.2056	ug/L	0.06759	32.88	17.30
Tl1908_A		-0.7023	ug/L	0.03470	4.941	-2.848
V_2924_A		0.08448	ug/L	0.02314	27.39	-6.635
Zn2062_A		0.004933	ug/L	0.05683	1,152	1.410
Y_3600_R		8,908.6	Cts/S	77.275	0.86742	8,908.6
Y_2243_A		7,652.6	Cts/S	29.805	0.38947	7,652.6
Y_3600_A		174,690	Cts/S	37.642	0.021548	174,690

LC2WQI27ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:04:29PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		52.68	ug/L	0.1186	0.2251	927.8
Al3961_R		2,155	ug/L	19.47	0.9037	1,201
As1891_A		106.0	ug/L	0.7388	0.6972	33.86
B_2089_A		531.3	ug/L	1.061	0.1998	920.7
Ba4554_R		2,147	ug/L	12.58	0.5856	88,400
Be3130_R		54.15	ug/L	0.3163	0.5841	2,544
Ca3158_R		2,684	ug/L	29.27	1.091	1,292
Cd2265_A		269.2	ug/L	1.322	0.4912	4,649
Co2286_A		545.3	ug/L	2.979	0.5464	2,111
Cr2677_A		221.9	ug/L	2.082	0.9384	2,605
Cu3273_A		273.8	ug/L	1.949	0.7119	5,434
Fe2599_R		1,081	ug/L	4.337	0.4012	910.9
K_7664_R		10,830	ug/L	118.3	1.092	4,654
Li6707_R		544.5	ug/L	0.3722	0.06836	4,934
Mg2025_A		5,376	ug/L	4.333	0.08061	1,774
Mn2576_R		535.7	ug/L	4.129	0.7709	1,660
Mo2020_A		109.0	ug/L	0.8262	0.7580	281.9
Na5895_R		8,140	ug/L	0.1055	0.001296	15,230
Ni2316_A		548.3	ug/L	2.400	0.4378	1,507

LC2WQI27ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:04:29PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		109.6	ug/L	0.6281	0.5730	142.1
Sb2068_A		106.4	ug/L	0.6443	0.6052	64.50
Se1960_A		103.5	ug/L	1.077	1.040	29.56
Si2516_R		1,079	ug/L	23.88	2.214	322.0
Sn1899_A		547.3	ug/L	1.636	0.2989	334.1
Sr4215_R		542.8	ug/L	4.320	0.7958	25,080
Ti3349_A		547.5	ug/L	4.699	0.8583	39,330
Tl1908_A		110.7	ug/L	2.180	1.968	54.69
V_2924_A		551.0	ug/L	3.826	0.6944	7,378
Zn2062_A		540.8	ug/L	4.204	0.7773	1,985
Y_3600_R		9,076.6	Cts/S	22.615	0.24916	9,076.6
Y_2243_A		7,676.0	Cts/S	6.9775	0.090900	7,676.0
Y_3600_A		174,860	Cts/S	646.80	0.36991	174,860

LCSWQI27ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:08:43PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		52.92	ug/L	1.026	1.938	924.4
Al3961_R		2,153	ug/L	35.83	1.664	1,181
As1891_A		105.4	ug/L	1.069	1.014	33.37
B_2089_A		532.3	ug/L	0.7418	0.1394	914.5
Ba4554_R		2,147	ug/L	0.3565	0.01661	87,060
Be3130_R		53.96	ug/L	0.02637	0.04888	2,497
Ca3158_R		2,684	ug/L	1.134	0.04225	1,273
Cd2265_A		270.6	ug/L	0.2599	0.09605	4,633
Co2286_A		547.8	ug/L	0.01861	0.003397	2,102
Cr2677_A		222.2	ug/L	1.146	0.5159	2,588
Cu3273_A		273.7	ug/L	2.979	1.089	5,388
Fe2599_R		1,090	ug/L	2.266	0.2079	904.8
K_7664_R		10,880	ug/L	68.82	0.6327	4,603
Li6707_R		541.2	ug/L	0.7708	0.1424	4,830
Mg2025_A		5,374	ug/L	2.332	0.04339	1,758
Mn2576_R		537.2	ug/L	3.370	0.6273	1,640
Mo2020_A		109.5	ug/L	0.1984	0.1812	280.6
Na5895_R		8,136	ug/L	5.362	0.06591	15,000
Ni2316_A		550.4	ug/L	0.1875	0.03407	1,500
Pb2203_A		111.0	ug/L	0.5728	0.5161	142.7
Sb2068_A		105.3	ug/L	0.4549	0.4319	63.23
Se1960_A		103.6	ug/L	2.064	1.992	29.34
Si2516_R		1,106	ug/L	11.12	1.006	324.8
Sn1899_A		551.5	ug/L	0.8321	0.1509	333.8
Sr4215_R		539.9	ug/L	0.7407	0.1372	24,570
Ti3349_A		545.5	ug/L	3.888	0.7127	38,870
Tl1908_A		111.3	ug/L	0.6505	0.5843	54.53
V_2924_A		550.3	ug/L	2.003	0.3640	7,308
Zn2062_A		544.3	ug/L	1.637	0.3006	1,980
Y_3600_R		8,940.2	Cts/S	82.937	0.92768	8,940.2
Y_2243_A		7,609.9	Cts/S	6.7795	0.089088	7,609.9
Y_3600_A		173,450	Cts/S	775.12	0.44689	173,450

PBWQI27ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:12:59PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

PBWQI27ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:12:59PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.1664	ug/L	0.03371	20.25	4.041
Al3961_R		-4.014	ug/L	8.041	200.3	-3.325
As1891_A		0.6609	ug/L	0.2063	31.22	-2.944
B_2089_A		1.572	ug/L	0.05141	3.271	7.118
Ba4554_R		0.1279	ug/L	0.1280	100.1	21.78
Be3130_R		0.1023	ug/L	0.02311	22.59	3.964
Ca3158_R		1.321	ug/L	0.1043	7.894	-27.26
Cd2265_A		-0.01446	ug/L	0.04800	331.9	-2.809
Co2286_A		0.1122	ug/L	0.04943	44.07	1.019
Cr2677_A		-0.1152	ug/L	0.03680	31.94	-0.4187
Cu3273_A		0.2297	ug/L	0.2047	89.13	19.40
Fe2599_R		10.05	ug/L	2.319	23.08	8.902
K_7664_R		30.08	ug/L	8.575	28.51	71.88
Li6707_R		1.723	ug/L	0.3253	18.88	15.18
Mg2025_A		-0.4726	ug/L	1.154	244.1	-6.475
Mn2576_R		-0.1197	ug/L	0.6779	566.3	-2.011
Mo2020_A		1.038	ug/L	0.1750	16.86	4.058
Na5895_R		-44.30	ug/L	2.661	6.007	269.7
Ni2316_A		0.3220	ug/L	0.1057	32.84	-0.5354
Pb2203_A		0.09070	ug/L	0.8326	918.0	-1.006
Sb2068_A		-0.3857	ug/L	0.6236	161.7	-0.6099
Se1960_A		1.158	ug/L	0.1843	15.92	2.627
Si2516_R		10.67	ug/L	5.899	55.29	16.60
Sn1899_A		6.921	ug/L	0.2419	3.496	6.679
Sr4215_R		0.01443	ug/L	0.0006260	4.337	-32.16
Ti3349_A		0.08169	ug/L	0.03772	46.18	8.624
Tl1908_A		-0.3567	ug/L	0.1584	44.41	-2.716
V_2924_A		0.003899	ug/L	0.05237	1,343	-7.842
Zn2062_A		0.06926	ug/L	0.07836	113.1	1.676
Y_3600_R		9,181.5	Cts/S	249.43	2.7166	9,181.5
Y_2243_A		7,791.4	Cts/S	3.3501	0.042998	7,791.4
Y_3600_A		179,210	Cts/S	375.99	0.20980	179,210

LC2WQI25ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:17:25PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		54.42	ug/L	0.08635	0.1587	970.3
Al3961_R		2,178	ug/L	16.70	0.7666	1,224
As1891_A		106.3	ug/L	0.5169	0.4863	34.10
B_2089_A		546.3	ug/L	1.296	0.2372	949.5
Ba4554_R		2,129	ug/L	21.48	1.009	88,410
Be3130_R		53.37	ug/L	0.8272	1.550	2,530
Ca3158_R		2,614	ug/L	52.49	2.008	1,269
Cd2265_A		268.8	ug/L	0.7231	0.2691	4,661
Co2286_A		545.1	ug/L	1.415	0.2596	2,119
Cr2677_A		217.5	ug/L	0.5021	0.2308	2,586
Cu3273_A		270.0	ug/L	0.02538	0.009401	5,427
Fe2599_R		1,081	ug/L	10.79	0.9982	919.0
K_7664_R		10,660	ug/L	29.01	0.2722	4,622
Li6707_R		540.9	ug/L	7.373	1.363	4,945
Mg2025_A		5,586	ug/L	11.71	0.2096	1,850
Mn2576_R		535.5	ug/L	5.906	1.103	1,675
Mo2020_A		92.10	ug/L	2.899	3.148	239.3
Na5895_R		8,077	ug/L	70.58	0.8738	15,250
Ni2316_A		549.9	ug/L	1.365	0.2483	1,518

LC2WQI25ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:17:25PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		110.8	ug/L	0.4853	0.4382	144.2
Sb2068_A		107.5	ug/L	0.9246	0.8601	65.48
Se1960_A		100.1	ug/L	2.787	2.785	28.78
Si2516_R		1,060	ug/L	30.12	2.841	319.4
Sn1899_A		534.6	ug/L	2.965	0.5545	327.8
Sr4215_R		533.7	ug/L	6.491	1.216	24,880
Ti3349_A		530.3	ug/L	0.3111	0.05868	38,570
Tl1908_A	F	115.6	ug/L	0.9999	0.8653	57.46
V_2924_A		536.0	ug/L	0.9252	0.1726	7,267
Zn2062_A		544.0	ug/L	1.269	0.2334	2,004
Y_3600_R		9,158.7	Cts/S	70.311	0.76770	9,158.7
Y_2243_A		7,707.9	Cts/S	56.193	0.72903	7,707.9
Y_3600_A		177,040	Cts/S	499.13	0.28193	177,040

CCV

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:21:41PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		516.0	ug/L	2.564	0.4970	8,980
Al3961_R		12,900	ug/L	57.62	0.4466	7,251
As1891_A		510.2	ug/L	1.523	0.2985	172.7
B_2089_A		513.6	ug/L	0.5177	0.1008	904.1
Ba4554_R		512.2	ug/L	1.239	0.2418	21,270
Be3130_R		511.3	ug/L	4.362	0.8531	24,400
Ca3158_R		12,650	ug/L	118.2	0.9340	6,243
Cd2265_A		513.9	ug/L	2.124	0.4134	8,818
Co2286_A		519.6	ug/L	2.295	0.4417	1,993
Cr2677_A		518.8	ug/L	1.320	0.2544	6,049
Cu3273_A		515.2	ug/L	2.539	0.4928	10,170
Fe2599_R		12,820	ug/L	77.47	0.6043	10,890
K_7664_R		12,690	ug/L	79.18	0.6238	5,489
Li6707_R		516.4	ug/L	1.281	0.2481	4,717
Mg2025_A		12,940	ug/L	36.33	0.2807	4,207
Mn2576_R		513.7	ug/L	2.966	0.5773	1,605
Mo2020_A		518.3	ug/L	1.771	0.3417	1,324
Na5895_R		12,880	ug/L	13.34	0.1036	24,100
Ni2316_A		521.4	ug/L	1.493	0.2863	1,419
Pb2203_A		522.1	ug/L	3.139	0.6013	674.7
Sb2068_A		499.6	ug/L	4.932	0.9872	310.6
Se1960_A		509.5	ug/L	1.733	0.3402	134.3
Si2516_R		12,740	ug/L	161.5	1.268	3,694
Sn1899_A		521.7	ug/L	0.7757	0.1487	315.6
Sr4215_R		511.6	ug/L	1.457	0.2849	23,830
Ti3349_A		516.9	ug/L	1.867	0.3613	36,930
Tl1908_A		525.9	ug/L	1.417	0.2695	268.4
V_2924_A		510.8	ug/L	1.337	0.2618	6,741
Zn2062_A		516.4	ug/L	2.322	0.4497	1,876
Y_3600_R		9,151.1	Cts/S	78.699	0.86000	9,151.1
Y_2243_A		7,604.7	Cts/S	4.7982	0.063095	7,604.7
Y_3600_A		173,870	Cts/S	285.90	0.16443	173,870

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:25:50PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:25:50PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.3105	ug/L	0.08961	28.86	1.454
Al3961_R		-9.211	ug/L	5.936	64.44	-6.128
As1891_A		1.592	ug/L	1.181	74.19	-2.566
B_2089_A		0.8845	ug/L	0.01752	1.981	5.929
Ba4554_R		0.1971	ug/L	0.01302	6.605	24.19
Be3130_R		0.1311	ug/L	0.06140	46.82	5.213
Ca3158_R		-4.484	ug/L	7.470	166.6	-29.48
Cd2265_A		0.06490	ug/L	0.02279	35.12	-1.404
Co2286_A		0.1334	ug/L	0.1419	106.4	1.085
Cr2677_A		0.3236	ug/L	0.09296	28.73	4.804
Cu3273_A		-0.2223	ug/L	0.08818	39.67	10.10
Fe2599_R		4.769	ug/L	2.012	42.19	4.331
K_7664_R		-23.55	ug/L	0.7982	3.389	47.84
Li6707_R		1.546	ug/L	1.140	73.76	13.34
Mg2025_A		-1.492	ug/L	1.835	123.0	-6.685
Mn2576_R		0.4608	ug/L	0.04351	9.442	-0.1562
Mo2020_A		3.030	ug/L	0.7175	23.68	9.111
Na5895_R		-71.98	ug/L	0.3710	0.5154	213.8
Ni2316_A		0.1031	ug/L	0.3590	348.3	-1.124
Pb2203_A		-0.2922	ug/L	0.3481	119.2	-1.492
Sb2068_A	W	5.609	ug/L	0.2223	3.964	3.174
Se1960_A		3.572	ug/L	1.185	33.17	3.208
Si2516_R		9.399	ug/L	0.1108	1.179	15.90
Sn1899_A		0.9311	ug/L	0.1083	11.63	2.942
Sr4215_R		0.08948	ug/L	0.08465	94.60	-28.01
Ti3349_A		0.3081	ug/L	0.1054	34.21	25.10
Tl1908_A		0.4857	ug/L	0.3856	79.38	-2.232
V_2924_A		0.1139	ug/L	0.05474	48.04	-6.530
Zn2062_A		0.1683	ug/L	0.06201	36.85	2.008
Y_3600_R		8,980.9	Cts/S	54.206	0.60357	8,980.9
Y_2243_A		7,657.3	Cts/S	29.127	0.38038	7,657.3
Y_3600_A		177,560	Cts/S	2,106.6	1.1865	177,560

SQ5008-001

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:30:15PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.8510	ug/L	0.1162	13.66	21.07
Al3961_R		3,031	ug/L	7.811	0.2577	1,727
As1891_A		2.503	ug/L	0.5511	22.02	-2.270
B_2089_A		87.12	ug/L	0.3398	0.3900	146.4
Ba4554_R		61.17	ug/L	0.2591	0.4235	2,593
Be3130_R		0.1860	ug/L	0.05448	29.29	6.059
Ca3158_R		4,813	ug/L	30.02	0.6238	2,393
Cd2265_A		5.015	ug/L	0.03478	0.6934	84.08
Co2286_A		2.124	ug/L	0.1087	5.118	8.734
Cr2677_A		9.335	ug/L	0.02384	0.2553	106.9
Cu3273_A		82.98	ug/L	2.545	3.068	1,606
Fe2599_R		2,126	ug/L	5.675	0.2670	1,832
K_7664_R		6,851	ug/L	14.98	0.2186	3,034
Li6707_R		35.12	ug/L	0.2249	0.6405	325.1
Mg2025_A		1,031	ug/L	2.616	0.2538	313.0
Mn2576_R		54.53	ug/L	0.5910	1.084	171.5
Mo2020_A		17.54	ug/L	0.5333	3.041	44.05
Na5895_R	W	142,700	ug/L	354.7	0.2486	267,400
Ni2316_A		32.28	ug/L	0.3383	1.048	82.64

SQ5008-001

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:30:15PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		11.17	ug/L	0.0003220	0.002882	12.55
Sb2068_A		42.63	ug/L	0.4623	1.084	24.96
Se1960_A		0.2560	ug/L	0.5976	233.4	2.279
Si2516_R		3,195	ug/L	7.062	0.2210	950.8
Sn1899_A		9.483	ug/L	0.3515	3.707	7.705
Sr4215_R		24.48	ug/L	0.1296	0.5293	1,126
Ti3349_A		48.26	ug/L	0.7553	1.565	3,356
Tl1908_A		2.105	ug/L	0.4968	23.60	-1.417
V_2924_A		3.687	ug/L	0.02094	0.5678	38.35
Zn2062_A		494.6	ug/L	0.1292	0.02613	1,720
Y_3600_R		9,288.7	Cts/S	27.703	0.29824	9,288.7
Y_2243_A		7,272.7	Cts/S	22.326	0.30698	7,272.7
Y_3600_A		169,210	Cts/S	4,279.0	2.5289	169,210

PBT1813A

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:34:28PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.2527	ug/L	0.2085	82.48	2.246
Al3961_R		-0.8717	ug/L	6.202	711.5	-1.543
As1891_A		-1.014	ug/L	1.490	147.0	-3.266
B_2089_A		4.800	ug/L	0.1412	2.941	11.79
Ba4554_R		11.49	ug/L	0.04569	0.3978	478.5
Be3130_R		0.2341	ug/L	0.006410	2.739	9.922
Ca3158_R		75.69	ug/L	4.275	5.648	9.408
Cd2265_A		-0.02518	ug/L	0.001972	7.831	-2.768
Co2286_A		-0.1852	ug/L	0.1600	86.39	-0.1354
Cr2677_A		0.1932	ug/L	0.1236	63.98	2.969
Cu3273_A		3.065	ug/L	0.02879	0.9394	69.28
Fe2599_R		11.35	ug/L	0.3327	2.931	9.714
K_7664_R		218.9	ug/L	1.285	0.5869	147.9
Li6707_R		3.912	ug/L	0.2289	5.850	34.13
Mg2025_A		4.996	ug/L	0.5550	11.11	-4.322
Mn2576_R		2.516	ug/L	0.8134	32.33	6.081
Mo2020_A		1.475	ug/L	0.1918	13.00	4.805
Na5895_R	F	330,800	ug/L	3,482	1.053	592,000
Ni2316_A		1.315	ug/L	0.1360	10.34	2.067
Pb2203_A		-0.2942	ug/L	0.6709	228.0	-1.403
Sb2068_A		1.782	ug/L	0.4729	26.55	0.7430
Se1960_A		1.474	ug/L	0.4661	31.63	2.504
Si2516_R		11.29	ug/L	5.831	51.67	16.25
Sn1899_A		1.176	ug/L	0.2517	21.41	2.905
Sr4215_R		0.8870	ug/L	0.06387	7.200	8.393
Ti3349_A		0.1129	ug/L	0.07013	62.10	9.836
Tl1908_A		-1.100	ug/L	0.8462	76.96	-2.876
V_2924_A		-0.1305	ug/L	0.03784	29.00	-8.790
Zn2062_A		10.78	ug/L	0.02187	0.2030	38.38
Y_3600_R		8,879.4	Cts/S	6.7081	0.075546	8,879.4
Y_2243_A		7,198.5	Cts/S	10.618	0.14750	7,198.5
Y_3600_A		161,260	Cts/S	190.41	0.11807	161,260

PBT1814A

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:38:52PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

PBT1814A

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:38:52PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.003293	ug/L	0.1582	4,803	7.149
Al3961_R		6.323	ug/L	5.088	80.46	2.408
As1891_A		-1.835	ug/L	0.4190	22.83	-3.832
B_2089_A		4.655	ug/L	0.08010	1.721	12.48
Ba4554_R		0.1727	ug/L	0.07277	42.13	23.63
Be3130_R		0.06940	ug/L	0.04455	64.19	2.369
Ca3158_R		20.66	ug/L	3.244	15.71	-17.60
Cd2265_A		-0.02074	ug/L	0.02128	102.6	-2.920
Co2286_A		0.08917	ug/L	0.1051	117.8	0.9299
Cr2677_A		0.1483	ug/L	0.04931	33.24	2.779
Cu3273_A		0.2499	ug/L	0.1944	77.79	20.05
Fe2599_R		11.32	ug/L	0.01105	0.09763	9.982
K_7664_R		54.17	ug/L	12.50	23.08	82.04
Li6707_R		2.544	ug/L	1.090	42.86	22.63
Mg2025_A		9.492	ug/L	0.7693	8.105	-3.181
Mn2576_R		0.5975	ug/L	0.2755	46.10	0.2640
Mo2020_A		0.6603	ug/L	0.1133	17.17	3.075
Na5895_R		494.6	ug/L	10.66	2.156	1,263
Ni2316_A		0.1308	ug/L	0.007180	5.487	-1.071
Pb2203_A		0.05783	ug/L	0.06346	109.7	-1.051
Sb2068_A		0.4731	ug/L	0.5186	109.6	-0.02010
Se1960_A		0.7574	ug/L	2.328	307.3	2.523
Si2516_R		2.740	ug/L	2.087	76.16	14.28
Sn1899_A		0.6908	ug/L	0.3460	50.09	2.850
Sr4215_R		0.2821	ug/L	0.07339	26.02	-19.59
Ti3349_A		0.1881	ug/L	0.01975	10.50	16.66
Tl1908_A		-1.001	ug/L	1.006	100.5	-3.063
V_2924_A		0.06467	ug/L	0.008750	13.53	-7.050
Zn2062_A		1.208	ug/L	0.1493	12.35	5.925
Y_3600_R		9,153.1	Cts/S	86.512	0.94516	9,153.1
Y_2243_A		7,801.7	Cts/S	27.480	0.35223	7,801.7
Y_3600_A		181,260	Cts/S	1,900.3	1.0484	181,260

RINSE1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:43:17PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.02786	ug/L	0.2775	996.0	7.737
Al3961_R		-6.458	ug/L	3.488	54.02	-4.831
As1891_A		0.3767	ug/L	0.6547	173.8	-3.062
B_2089_A		0.4350	ug/L	0.1637	37.64	5.141
Ba4554_R		0.1167	ug/L	0.1354	116.0	21.65
Be3130_R		0.1395	ug/L	0.05358	38.42	5.819
Ca3158_R		-4.430	ug/L	5.401	121.9	-30.51
Cd2265_A		-0.02529	ug/L	0.05162	204.1	-3.029
Co2286_A		0.02757	ug/L	0.01626	58.98	0.6902
Cr2677_A		0.08776	ug/L	0.1808	206.1	2.058
Cu3273_A		-0.1641	ug/L	0.01665	10.15	11.67
Fe2599_R		2.430	ug/L	0.1975	8.129	2.473
K_7664_R		-22.78	ug/L	14.95	65.63	49.92
Li6707_R		1.224	ug/L	0.6030	49.26	10.81
Mg2025_A		-0.3189	ug/L	0.6341	198.8	-6.467
Mn2576_R		-0.6224	ug/L	0.08299	13.33	-3.608
Mo2020_A		0.5389	ug/L	0.08120	15.07	2.768
Na5895_R		-0.7412	ug/L	7.297	984.4	355.0
Ni2316_A		0.1598	ug/L	0.05081	31.80	-0.9940

RINSE1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:43:17PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		-0.6838	ug/L	0.2731	39.93	-2.045
Sb2068_A		0.05480	ug/L	0.1663	303.6	-0.2788
Se1960_A		0.1252	ug/L	1.135	906.9	2.365
Si2516_R		-15.50	ug/L	0.3506	2.262	9.152
Sn1899_A		-0.5990	ug/L	0.07493	12.51	2.064
Sr4215_R		0.08837	ug/L	0.001331	1.506	-29.08
Ti3349_A		-0.01680	ug/L	0.02187	130.2	1.425
Tl1908_A		-0.008992	ug/L	0.07559	840.6	-2.546
V_2924_A		0.2137	ug/L	0.1108	51.86	-5.026
Zn2062_A		-0.01694	ug/L	0.07121	420.5	1.363
Y_3600_R		9,303.9	Cts/S	63.180	0.67907	9,303.9
Y_2243_A		7,834.8	Cts/S	65.388	0.83458	7,834.8
Y_3600_A		183,750	Cts/S	1,597.5	0.86935	183,750

SQ5041-001

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:47:42PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.2649	ug/L	0.09653	36.45	9.009
Al3961_R		1,368	ug/L	1.470	0.1075	695.8
As1891_A		-1.664	ug/L	1.545	92.85	-3.104
B_2089_A	W	2,148	ug/L	1.270	0.05910	2,980
Ba4554_R		38.29	ug/L	0.3428	0.8954	1,418
Be3130_R		0.2523	ug/L	0.09401	37.26	8.449
Ca3158_R	W	125,100	ug/L	370.9	0.2965	54,740
Cd2265_A		0.3844	ug/L	0.03221	8.378	6.893
Co2286_A		2.548	ug/L	0.07681	3.015	8.697
Cr2677_A		9.061	ug/L	0.2023	2.233	88.55
Cu3273_A		8.242	ug/L	0.2712	3.290	140.4
Fe2599_R		2,005	ug/L	7.158	0.3570	1,504
K_7664_R	W	55,820	ug/L	252.1	0.4516	21,150
Li6707_R		41.72	ug/L	2.477	5.937	336.2
Mg2025_A	W	158,400	ug/L	298.5	0.1884	41,800
Mn2576_R	W	1,053	ug/L	0.7998	0.07593	2,909
Mo2020_A		9.577	ug/L	0.2511	2.621	20.96
Na5895_R	F	2,120,000	ug/L	3,553	0.1676	3,453,000
Ni2316_A		9.480	ug/L	0.06581	0.6942	19.80
Pb2203_A		0.3894	ug/L	0.6119	157.2	-0.5550
Sb2068_A		1.169	ug/L	0.6236	53.35	0.4175
Se1960_A		3.879	ug/L	0.2649	6.831	2.851
Si2516_R		14,150	ug/L	75.88	0.5364	3,623
Sn1899_A		2.424	ug/L	0.5770	23.81	3.116
Sr4215_R	W	1,392	ug/L	6.114	0.4393	57,310
Ti3349_A		38.41	ug/L	1.205	3.138	2,163
Tl1908_A		-0.2152	ug/L	0.7894	366.9	-3.254
V_2924_A		16.64	ug/L	0.1824	1.097	164.5
Zn2062_A		51.55	ug/L	0.2416	0.4686	153.9
Y_3600_R		8,083.3	Cts/S	34.010	0.42075	8,083.3
Y_2243_A		6,204.2	Cts/S	21.146	0.34084	6,204.2
Y_3600_A		136,990	Cts/S	621.67	0.45382	136,990

SQ5080-002

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:52:02PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

SQ5080-002

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:52:02PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.2666	ug/L	0.3551	133.2	10.37
Al3961_R		-42.46	ug/L	1.411	3.324	44.99
As1891_A		-2.705	ug/L	1.063	39.29	-3.653
B_2089_A		258.8	ug/L	1.524	0.5889	403.4
Ba4554_R		166.6	ug/L	0.1462	0.08772	6,538
Be3130_R		0.09177	ug/L	0.03096	33.73	3.045
Ca3158_R	W	428,200	ug/L	1,567	0.3660	200,200
Cd2265_A		-0.02603	ug/L	0.007970	30.62	-2.667
Co2286_A		-0.1833	ug/L	0.1131	61.70	-0.09074
Cr2677_A		7.079	ug/L	0.2364	3.339	75.52
Cu3273_A		0.3014	ug/L	0.1022	33.92	18.26
Fe2599_R		7.602	ug/L	3.605	47.42	6.439
K_7664_R	W	214,400	ug/L	560.8	0.2615	86,570
Li6707_R		43.08	ug/L	1.439	3.339	370.7
Mg2025_A		17,610	ug/L	87.49	0.4969	5,166
Mn2576_R		1.279	ug/L	0.09648	7.542	2.321
Mo2020_A		11.87	ug/L	0.02951	0.2486	28.70
Na5895_R	W	25,560	ug/L	93.98	0.3678	44,780
Ni2316_A		-0.01207	ug/L	0.2057	1,704	-1.297
Pb2203_A		0.3544	ug/L	1.331	375.7	-0.5930
Sb2068_A		-1.208	ug/L	0.4180	34.61	-0.8942
Se1960_A		4.067	ug/L	1.789	43.99	3.011
Si2516_R		2,201	ug/L	21.55	0.9795	612.6
Sn1899_A		1.241	ug/L	0.1011	8.151	2.823
Sr4215_R	W	1,364	ug/L	3.765	0.2761	59,970
Ti3349_A		5.186	ug/L	0.01380	0.2661	337.6
Tl1908_A		-0.1560	ug/L	0.05057	32.42	-2.320
V_2924_A		1.730	ug/L	0.09263	5.354	12.62
Zn2062_A		0.4976	ug/L	0.03714	7.464	2.875
Y_3600_R		8,632.5	Cts/S	11.784	0.13651	8,632.5
Y_2243_A		6,905.8	Cts/S	23.112	0.33468	6,905.8
Y_3600_A		157,390	Cts/S	238.34	0.15143	157,390

SQ5080-002L

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:56:17PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.7957	ug/L	1.397	175.5	9.401
Al3961_R		-49.58	ug/L	32.65	65.85	7.817
As1891_A		2.144	ug/L	3.061	142.8	-2.830
B_2089_A		269.9	ug/L	0.5018	0.1859	92.08
Ba4554_R		164.7	ug/L	0.1868	0.1134	1,377
Be3130_R		-0.02087	ug/L	0.1632	782.1	-1.255
Ca3158_R	W	428,700	ug/L	2,426	0.5657	42,290
Cd2265_A		-0.2359	ug/L	0.2349	99.55	-3.172
Co2286_A		0.1442	ug/L	0.8097	561.3	0.6665
Cr2677_A		10.24	ug/L	0.2714	2.650	24.36
Cu3273_A		0.1314	ug/L	0.3101	236.0	14.50
Fe2599_R		24.06	ug/L	10.11	42.01	4.436
K_7664_R	W	211,300	ug/L	1,017	0.4813	18,060
Li6707_R		63.76	ug/L	5.444	8.539	115.4
Mg2025_A		18,880	ug/L	7.252	0.03842	1,165
Mn2576_R		1.039	ug/L	2.404	231.4	-0.9349
Mo2020_A		13.43	ug/L	0.2778	2.069	7.831
Na5895_R		26,390	ug/L	142.2	0.5387	10,040
Ni2316_A		-0.6039	ug/L	0.4767	78.94	-1.657

SQ5080-002L

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:56:17PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		-3.498	ug/L	2.771	79.22	-1.928
Sb2068_A		-2.771	ug/L	4.067	146.8	-0.6026
Se1960_A		9.204	ug/L	1.356	14.74	2.627
Si2516_R		2,145	ug/L	59.97	2.796	136.9
Sn1899_A		0.2463	ug/L	3.389	1,376	2.294
Sr4215_R		1,352	ug/L	6.584	0.4868	12,530
Ti3349_A		13.62	ug/L	0.6412	4.707	193.7
Tl1908_A		2.081	ug/L	3.336	160.3	-2.162
V_2924_A		1.475	ug/L	1.424	96.53	-3.900
Zn2062_A		2.215	ug/L	0.5022	22.68	2.863
Y_3600_R		9,112.2	Cts/S	10.832	0.11888	9,112.2
Y_2243_A		7,292.0	Cts/S	3.9351	0.053965	7,292.0
Y_3600_A		170,820	Cts/S	817.27	0.47845	170,820

SQ5080-002N

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:00:36PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		18.17	ug/L	0.4860	2.674	296.1
Al3961_R		677.8	ug/L	17.92	2.645	426.3
As1891_A		37.03	ug/L	1.484	4.008	8.580
B_2089_A		402.8	ug/L	0.8955	0.2223	609.9
Ba4554_R		821.8	ug/L	15.27	1.858	33,440
Be3130_R		17.32	ug/L	0.3114	1.798	803.0
Ca3158_R	W	324,100	ug/L	5,519	1.703	157,400
Cd2265_A		91.82	ug/L	0.02079	0.02264	1,386
Co2286_A		185.3	ug/L	0.01835	0.009905	627.9
Cr2677_A		76.53	ug/L	1.261	1.648	820.3
Cu3273_A		92.86	ug/L	2.003	2.157	1,691
Fe2599_R		356.3	ug/L	9.986	2.802	296.9
K_7664_R	W	165,700	ug/L	2,961	1.787	69,520
Li6707_R		208.5	ug/L	2.534	1.215	1,867
Mg2025_A		16,220	ug/L	12.38	0.07630	4,636
Mn2576_R		171.3	ug/L	2.479	1.447	523.8
Mo2020_A		46.89	ug/L	0.3920	0.8360	106.8
Na5895_R		21,630	ug/L	387.3	1.791	39,430
Ni2316_A		185.0	ug/L	0.04587	0.02479	444.2
Pb2203_A		36.21	ug/L	0.4985	1.377	40.41
Sb2068_A		39.09	ug/L	0.4488	1.148	20.60
Se1960_A		41.70	ug/L	4.721	11.32	11.59
Si2516_R		1,994	ug/L	30.31	1.520	577.8
Sn1899_A		185.9	ug/L	0.08152	0.04385	100.7
Sr4215_R	W	1,208	ug/L	23.10	1.912	55,220
Ti3349_A		182.3	ug/L	3.980	2.183	11,950
Tl1908_A		33.50	ug/L	0.7713	2.302	12.96
V_2924_A		181.5	ug/L	4.088	2.253	2,211
Zn2062_A		187.0	ug/L	0.1848	0.09882	601.2
Y_3600_R		8,971.3	Cts/S	145.32	1.6198	8,971.3
Y_2243_A		6,715.6	Cts/S	1.0122	0.015073	6,715.6
Y_3600_A		159,590	Cts/S	3,145.3	1.9709	159,590

SQ5080-002O

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:04:47PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

SQ5080-002O

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:04:47PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		22.07	ug/L	0.4316	1.956	354.5
Al3961_R		842.1	ug/L	2.283	0.2711	510.7
As1891_A		42.93	ug/L	0.5586	1.301	10.77
B_2089_A		454.3	ug/L	3.582	0.7885	713.2
Ba4554_R	W	1,032	ug/L	2.461	0.2385	40,430
Be3130_R		21.66	ug/L	0.1216	0.5614	967.4
Ca3158_R	W	406,000	ug/L	488.9	0.1204	189,900
Cd2265_A		103.4	ug/L	0.7482	0.7234	1,620
Co2286_A		208.3	ug/L	1.198	0.5749	732.4
Cr2677_A		92.35	ug/L	0.7421	0.8036	979.1
Cu3273_A		112.0	ug/L	0.6876	0.6137	2,015
Fe2599_R		433.9	ug/L	2.621	0.6041	348.1
K_7664_R	W	208,200	ug/L	287.3	0.1380	84,120
Li6707_R		258.7	ug/L	1.105	0.4271	2,230
Mg2025_A		18,220	ug/L	195.8	1.075	5,403
Mn2576_R		213.5	ug/L	1.347	0.6309	628.8
Mo2020_A		53.19	ug/L	0.4527	0.8511	125.5
Na5895_R	W	26,790	ug/L	143.2	0.5344	46,950
Ni2316_A		208.2	ug/L	1.265	0.6076	518.6
Pb2203_A		40.50	ug/L	0.3870	0.9557	47.00
Sb2068_A		43.26	ug/L	0.1814	0.4193	23.74
Se1960_A		46.02	ug/L	2.479	5.387	13.07
Si2516_R		2,536	ug/L	12.38	0.4881	704.1
Sn1899_A		207.7	ug/L	2.120	1.021	116.4
Sr4215_R	W	1,520	ug/L	3.540	0.2329	66,890
Ti3349_A		219.2	ug/L	0.7065	0.3223	14,220
Tl1908_A		38.66	ug/L	0.2264	0.5857	15.82
V_2924_A		219.9	ug/L	1.872	0.8514	2,652
Zn2062_A		211.2	ug/L	1.045	0.4950	704.1
Y_3600_R		8,636.5	Cts/S	83.149	0.96277	8,636.5
Y_2243_A		6,967.6	Cts/S	42.101	0.60425	6,967.6
Y_3600_A		157,850	Cts/S	878.05	0.55627	157,850

SQ5080-003

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:08:57PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.3398	ug/L	0.06881	20.25	12.03
Al3961_R		199.4	ug/L	26.26	13.17	180.3
As1891_A		1.687	ug/L	1.449	85.88	-2.347
B_2089_A		348.0	ug/L	0.5470	0.1572	554.9
Ba4554_R		933.6	ug/L	11.55	1.237	37,930
Be3130_R		0.05264	ug/L	0.08232	156.4	1.367
Ca3158_R	W	434,600	ug/L	11,650	2.681	210,800
Cd2265_A		0.2056	ug/L	0.004495	2.186	0.9240
Co2286_A		1.632	ug/L	0.08167	5.006	6.397
Cr2677_A		5.598	ug/L	0.1240	2.215	82.48
Cu3273_A		3.788	ug/L	0.03359	0.8866	84.03
Fe2599_R		16.87	ug/L	0.002238	0.01327	14.38
K_7664_R	W	25,830	ug/L	295.5	1.144	10,870
Li6707_R		25.04	ug/L	0.1238	0.4943	223.3
Mg2025_A	W	26,420	ug/L	45.70	0.1730	7,961
Mn2576_R	W	3,679	ug/L	48.79	1.326	11,260
Mo2020_A		1.429	ug/L	0.06696	4.685	4.443
Na5895_R		9,474	ug/L	105.9	1.118	17,440
Ni2316_A		28.27	ug/L	0.01046	0.03701	70.53

SQ5080-003

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:08:57PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		3.097	ug/L	0.2915	9.413	2.704
Sb2068_A		-0.5000	ug/L	0.6506	130.1	-0.5343
Se1960_A		1.746	ug/L	0.2144	12.28	3.178
Si2516_R	W	31,250	ug/L	291.4	0.9326	8,850
Sn1899_A		1.064	ug/L	0.3830	35.98	2.799
Sr4215_R	W	1,718	ug/L	18.32	1.066	78,400
Ti3349_A		5.139	ug/L	0.08853	1.723	349.7
Tl1908_A		1.217	ug/L	0.8766	72.06	-6.202
V_2924_A		6.052	ug/L	0.2033	3.360	52.99
Zn2062_A		27.40	ug/L	0.1987	0.7251	94.10
Y_3600_R		8,955.4	Cts/S	112.17	1.2526	8,955.4
Y_2243_A		7,089.4	Cts/S	4.8145	0.067911	7,089.4
Y_3600_A		164,490	Cts/S	61.845	0.037598	164,490

CCV

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:13:13PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A	W	538.7	ug/L	2.155	0.4001	9,189
Al3961_R	W	13,520	ug/L	23.52	0.1740	7,342
As1891_A	W	535.7	ug/L	3.606	0.6732	176.7
B_2089_A	W	538.0	ug/L	0.7088	0.1317	921.8
Ba4554_R	W	536.1	ug/L	1.770	0.3302	21,510
Be3130_R	W	541.1	ug/L	0.8717	0.1611	24,950
Ca3158_R	W	13,420	ug/L	37.25	0.2776	6,402
Cd2265_A	W	539.6	ug/L	0.3508	0.06500	9,016
Co2286_A	W	546.0	ug/L	0.3947	0.07229	2,039
Cr2677_A	W	542.1	ug/L	3.209	0.5920	6,194
Cu3273_A	W	537.9	ug/L	2.522	0.4688	10,410
Fe2599_R	W	13,480	ug/L	6.433	0.04771	11,060
K_7664_R	W	13,620	ug/L	39.51	0.2902	5,685
Li6707_R	W	542.7	ug/L	1.147	0.2114	4,791
Mg2025_A	W	13,590	ug/L	28.45	0.2093	4,301
Mn2576_R	W	538.3	ug/L	3.419	0.6351	1,625
Mo2020_A	W	539.3	ug/L	1.263	0.2343	1,341
Na5895_R	W	13,610	ug/L	19.83	0.1457	24,580
Ni2316_A	W	546.5	ug/L	0.1639	0.02999	1,448
Pb2203_A	W	548.6	ug/L	0.6316	0.1151	690.3
Sb2068_A		521.3	ug/L	4.550	0.8727	315.6
Se1960_A	W	531.5	ug/L	0.4510	0.08486	136.3
Si2516_R	W	13,490	ug/L	98.33	0.7287	3,781
Sn1899_A	W	545.1	ug/L	0.6231	0.1143	321.0
Sr4215_R	W	535.9	ug/L	1.170	0.2183	24,120
Ti3349_A	W	541.2	ug/L	1.623	0.2999	37,890
Tl1908_A	F	552.4	ug/L	0.6779	0.1227	274.7
V_2924_A	W	534.1	ug/L	3.159	0.5914	6,908
Zn2062_A	W	542.9	ug/L	1.465	0.2698	1,921
Y_3600_R		8,842.5	Cts/S	52.652	0.59545	8,842.5
Y_2243_A		7,404.4	Cts/S	28.280	0.38194	7,404.4
Y_3600_A		170,410	Cts/S	409.07	0.24005	170,410

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:17:19PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:17:19PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.1517	ug/L	0.1350	89.02	9.624
Al3961_R		0.3907	ug/L	10.68	2,734	-0.8512
As1891_A		1.860	ug/L	0.6816	36.64	-2.472
B_2089_A		0.5295	ug/L	0.09510	17.96	5.257
Ba4554_R		0.1740	ug/L	0.04476	25.72	23.06
Be3130_R		0.1940	ug/L	0.03648	18.81	8.089
Ca3158_R		-6.068	ug/L	2.172	35.80	-30.01
Cd2265_A		0.07170	ug/L	0.006364	8.876	-1.293
Co2286_A		0.2186	ug/L	0.1325	60.59	1.410
Cr2677_A		0.1414	ug/L	0.08468	59.89	2.631
Cu3273_A		-0.2378	ug/L	0.2537	106.7	9.762
Fe2599_R		1.609	ug/L	2.006	124.7	1.686
K_7664_R		219.9	ug/L	9.839	4.475	148.8
Li6707_R		2.832	ug/L	0.02096	0.7400	24.64
Mg2025_A		-0.1919	ug/L	2.420	1,261	-6.257
Mn2576_R		-0.1587	ug/L	0.4729	297.9	-2.039
Mo2020_A		1.934	ug/L	0.3543	18.32	6.284
Na5895_R		55.34	ug/L	5.468	9.881	440.6
Ni2316_A		0.2722	ug/L	0.05202	19.11	-0.6608
Pb2203_A		0.06885	ug/L	0.04363	63.37	-1.019
Sb2068_A	W	5.131	ug/L	0.9527	18.57	2.881
Se1960_A		0.6345	ug/L	0.7955	125.4	2.442
Si2516_R		13.54	ug/L	7.473	55.20	16.93
Sn1899_A		-0.3449	ug/L	0.4935	143.1	2.169
Sr4215_R		0.1201	ug/L	0.05418	45.13	-26.41
Ti3349_A		0.1026	ug/L	0.02319	22.62	10.04
Tl1908_A		0.8290	ug/L	0.5222	63.00	-2.051
V_2924_A		0.2726	ug/L	0.1467	53.80	-4.206
Zn2062_A		0.1400	ug/L	0.04014	28.67	1.903
Y_3600_R		8,908.9	Cts/S	39.534	0.44376	8,908.9
Y_2243_A		7,648.8	Cts/S	7.9261	0.10363	7,648.8
Y_3600_A		177,050	Cts/S	192.79	0.10889	177,050

SQ5102-001

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:21:43PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.1953	ug/L	0.1516	77.61	9.799
Al3961_R		1,363	ug/L	4.627	0.3395	764.3
As1891_A		0.7628	ug/L	0.1393	18.26	-2.866
B_2089_A		122.4	ug/L	0.7753	0.6337	207.1
Ba4554_R		63.09	ug/L	0.2008	0.3183	2,611
Be3130_R		0.2056	ug/L	0.05211	25.34	8.686
Ca3158_R	W	40,810	ug/L	192.7	0.4722	20,020
Cd2265_A		0.02050	ug/L	0.04322	210.9	1.755
Co2286_A		8.917	ug/L	0.1454	1.630	33.77
Cr2677_A		2.209	ug/L	0.08652	3.917	27.39
Cu3273_A		0.2612	ug/L	0.02548	9.751	20.30
Fe2599_R		1,839	ug/L	4.020	0.2186	1,548
K_7664_R		1,951	ug/L	7.698	0.3945	885.7
Li6707_R		8.157	ug/L	0.9060	11.11	73.26
Mg2025_A		2,066	ug/L	23.65	1.145	643.7
Mn2576_R		370.7	ug/L	1.141	0.3077	1,148
Mo2020_A		20.12	ug/L	0.1071	0.5321	51.16
Na5895_R	F	282,900	ug/L	4,832	1.708	517,200
Ni2316_A		14.39	ug/L	0.3804	2.643	36.63

SQ5102-001

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:21:43PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		15.07	ug/L	0.3543	2.351	17.83
Sb2068_A		5.489	ug/L	0.1076	1.961	3.039
Se1960_A		2.538	ug/L	0.7569	29.83	2.932
Si2516_R		794.5	ug/L	21.71	2.733	240.9
Sn1899_A		1.217	ug/L	0.7418	60.96	3.009
Sr4215_R		174.2	ug/L	0.6573	0.3774	8,020
Ti3349_A		2.395	ug/L	0.09944	4.152	165.9
Tl1908_A		-0.7619	ug/L	0.04906	6.439	-3.236
V_2924_A		1.272	ug/L	0.06549	5.147	5.177
Zn2062_A		945.6	ug/L	4.135	0.4373	3,342
Y_3600_R		9,070.5	Cts/S	110.33	1.2164	9,070.5
Y_2243_A		7,391.3	Cts/S	63.957	0.86531	7,391.3
Y_3600_A		166,260	Cts/S	54.754	0.032934	166,260

SQ5102-002

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:26:03PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.2153	ug/L	0.04852	22.53	9.969
Al3961_R		1,340	ug/L	3.555	0.2652	747.9
As1891_A		-1.824	ug/L	1.222	67.03	-3.738
B_2089_A		140.9	ug/L	1.096	0.7776	234.3
Ba4554_R		74.56	ug/L	0.05336	0.07157	3,068
Be3130_R		0.1132	ug/L	0.05244	46.35	4.293
Ca3158_R	W	40,570	ug/L	164.8	0.4061	19,810
Cd2265_A		-0.03547	ug/L	0.02111	59.53	2.631
Co2286_A		10.06	ug/L	0.08147	0.8095	37.50
Cr2677_A		2.758	ug/L	0.02977	1.079	33.05
Cu3273_A		1.636	ug/L	0.6225	38.04	46.46
Fe2599_R		2,717	ug/L	2.996	0.1103	2,276
K_7664_R		2,100	ug/L	33.88	1.613	943.9
Li6707_R		11.37	ug/L	0.3253	2.862	101.9
Mg2025_A		2,147	ug/L	19.55	0.9109	659.4
Mn2576_R		408.1	ug/L	3.284	0.8046	1,257
Mo2020_A		20.80	ug/L	0.2212	1.063	52.07
Na5895_R	F	297,300	ug/L	1,907	0.6414	540,900
Ni2316_A		16.72	ug/L	0.2344	1.402	42.09
Pb2203_A		10.85	ug/L	0.3657	3.370	12.37
Sb2068_A		5.253	ug/L	0.01578	0.3005	2.864
Se1960_A		2.731	ug/L	1.041	38.13	2.953
Si2516_R		799.8	ug/L	0.2747	0.03434	241.2
Sn1899_A		1.967	ug/L	0.04350	2.212	3.395
Sr4215_R		206.7	ug/L	0.1349	0.06528	9,475
Ti3349_A		2.451	ug/L	0.007654	0.3123	166.7
Tl1908_A		-0.9690	ug/L	0.1901	19.61	-3.337
V_2924_A		1.812	ug/L	0.05685	3.138	11.65
Zn2062_A		976.0	ug/L	5.568	0.5705	3,399
Y_3600_R		9,025.7	Cts/S	54.417	0.60292	9,025.7
Y_2243_A		7,283.9	Cts/S	54.339	0.74601	7,283.9
Y_3600_A		163,290	Cts/S	77.832	0.047665	163,290

SQ5102-003

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:30:22PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

SQ5102-003

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:30:22PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.06886	ug/L	0.04978	72.29	5.386
Al3961_R		1,240	ug/L	16.20	1.306	696.3
As1891_A		0.5184	ug/L	1.053	203.0	-2.985
B_2089_A		126.3	ug/L	0.8824	0.6986	212.2
Ba4554_R		88.64	ug/L	0.9412	1.062	3,660
Be3130_R		0.2370	ug/L	0.1798	75.85	10.23
Ca3158_R	W	45,820	ug/L	163.7	0.3571	22,470
Cd2265_A		0.05055	ug/L	0.03069	60.71	4.034
Co2286_A		9.813	ug/L	0.02906	0.2962	36.88
Cr2677_A		1.710	ug/L	0.06697	3.916	22.71
Cu3273_A		1.035	ug/L	0.05906	5.705	35.75
Fe2599_R		2,700	ug/L	2.271	0.08410	2,272
K_7664_R		2,156	ug/L	18.44	0.8552	972.2
Li6707_R		16.59	ug/L	0.5968	3.597	149.6
Mg2025_A		2,351	ug/L	17.48	0.7435	728.7
Mn2576_R		569.9	ug/L	1.661	0.2914	1,764
Mo2020_A		19.30	ug/L	0.1318	0.6832	48.78
Na5895_R	F	306,300	ug/L	3,815	1.245	559,900
Ni2316_A		18.20	ug/L	0.06283	0.3452	46.35
Pb2203_A		15.31	ug/L	0.2572	1.680	18.08
Sb2068_A		4.463	ug/L	0.6790	15.21	2.411
Se1960_A		3.093	ug/L	0.1672	5.407	3.095
Si2516_R		952.1	ug/L	16.93	1.778	285.8
Sn1899_A		0.7021	ug/L	1.203	171.3	2.688
Sr4215_R		216.9	ug/L	2.311	1.065	9,990
Ti3349_A		2.380	ug/L	0.1500	6.304	163.7
Tl1908_A		-0.7874	ug/L	0.6686	84.91	-3.478
V_2924_A		1.181	ug/L	0.008681	0.7352	3.272
Zn2062_A		964.6	ug/L	6.029	0.6250	3,387
Y_3600_R		9,065.3	Cts/S	104.91	1.1573	9,065.3
Y_2243_A		7,343.7	Cts/S	27.752	0.37790	7,343.7
Y_3600_A		165,130	Cts/S	413.84	0.25062	165,130

SQ5102-004

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:34:41PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.08352	ug/L	0.2439	292.0	5.053
Al3961_R		1,268	ug/L	14.28	1.126	688.7
As1891_A		0.04522	ug/L	0.1900	420.2	-3.122
B_2089_A		139.9	ug/L	0.8796	0.6286	228.6
Ba4554_R		77.12	ug/L	0.7053	0.9145	3,084
Be3130_R		0.2546	ug/L	0.01357	5.328	10.66
Ca3158_R	W	43,030	ug/L	59.99	0.1394	20,420
Cd2265_A		-0.04369	ug/L	0.01466	33.55	4.301
Co2286_A		11.64	ug/L	0.2001	1.719	42.55
Cr2677_A		1.627	ug/L	0.1079	6.630	20.42
Cu3273_A		0.7707	ug/L	0.01175	1.524	31.20
Fe2599_R		3,624	ug/L	0.3793	0.01047	2,950
K_7664_R		2,067	ug/L	10.50	0.5080	904.0
Li6707_R		12.28	ug/L	0.9801	7.984	107.0
Mg2025_A		2,214	ug/L	6.384	0.2884	668.4
Mn2576_R		420.2	ug/L	0.9408	0.2239	1,258
Mo2020_A		21.37	ug/L	0.04348	0.2034	52.54
Na5895_R	F	313,200	ug/L	1,349	0.4309	553,900
Ni2316_A		18.18	ug/L	0.08669	0.4769	45.03

SQ5102-004

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:34:41PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		12.67	ug/L	0.5579	4.404	14.43
Sb2068_A		4.382	ug/L	0.1231	2.808	2.310
Se1960_A		2.680	ug/L	0.4446	16.59	2.898
Si2516_R		739.8	ug/L	4.689	0.6338	217.8
Sn1899_A		1.159	ug/L	0.2519	21.73	2.880
Sr4215_R		223.3	ug/L	2.483	1.112	9,954
Ti3349_A		2.370	ug/L	0.1260	5.318	159.4
Tl1908_A		-0.6081	ug/L	0.1202	19.77	-3.117
V_2924_A		1.531	ug/L	0.2487	16.25	8.020
Zn2062_A	W	1,054	ug/L	1.824	0.1731	3,606
Y_3600_R		8,773.3	Cts/S	14.976	0.17070	8,773.3
Y_2243_A		7,157.2	Cts/S	36.575	0.51103	7,157.2
Y_3600_A		161,390	Cts/S	550.33	0.34099	161,390

SQ5102-005

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:39:01PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.2015	ug/L	0.3716	184.4	3.155
Al3961_R		1,568	ug/L	2.752	0.1755	854.3
As1891_A		1.633	ug/L	0.3924	24.03	-2.558
B_2089_A		139.7	ug/L	0.6835	0.4894	228.9
Ba4554_R		81.44	ug/L	0.4475	0.5495	3,269
Be3130_R		0.1928	ug/L	0.01275	6.612	7.864
Ca3158_R	W	47,500	ug/L	287.0	0.6041	22,640
Cd2265_A		-0.005165	ug/L	0.0001160	2.238	3.396
Co2286_A		12.30	ug/L	0.1107	0.9007	44.97
Cr2677_A		1.711	ug/L	0.08400	4.909	21.70
Cu3273_A		0.6967	ug/L	0.1800	25.84	28.93
Fe2599_R		2,875	ug/L	19.63	0.6828	2,350
K_7664_R		2,179	ug/L	33.53	1.539	953.8
Li6707_R		11.42	ug/L	0.09572	0.8380	99.92
Mg2025_A		2,382	ug/L	3.239	0.1360	721.0
Mn2576_R		464.8	ug/L	0.8759	0.1884	1,398
Mo2020_A		26.65	ug/L	0.03108	0.1166	65.32
Na5895_R	F	329,400	ug/L	2,683	0.8145	585,100
Ni2316_A		19.10	ug/L	0.06067	0.3176	47.55
Pb2203_A		13.27	ug/L	0.2632	1.983	15.11
Sb2068_A		4.753	ug/L	0.3169	6.668	2.523
Se1960_A		0.7537	ug/L	0.6855	90.95	2.438
Si2516_R		871.8	ug/L	2.149	0.2465	255.4
Sn1899_A		0.6354	ug/L	0.2747	43.23	2.588
Sr4215_R		227.0	ug/L	1.335	0.5879	10,160
Ti3349_A		2.361	ug/L	0.04781	2.025	159.3
Tl1908_A		-1.313	ug/L	0.4353	33.15	-3.518
V_2924_A		2.001	ug/L	0.2557	12.78	13.06
Zn2062_A	W	1,050	ug/L	0.4920	0.04686	3,599
Y_3600_R		8,809.9	Cts/S	17.365	0.19711	8,809.9
Y_2243_A		7,169.3	Cts/S	6.5195	0.090936	7,169.3
Y_3600_A		161,940	Cts/S	961.20	0.59354	161,940

SQ5102-006

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:43:20PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

SQ5102-006

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:43:20PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.05070	ug/L	0.06049	119.3	5.757
Al3961_R		1,402	ug/L	10.53	0.7512	785.4
As1891_A		0.3722	ug/L	1.286	345.5	-3.026
B_2089_A		132.4	ug/L	0.1342	0.1014	221.1
Ba4554_R		71.11	ug/L	0.5284	0.7431	2,938
Be3130_R		0.2154	ug/L	0.07077	32.86	9.143
Ca3158_R	W	42,220	ug/L	414.4	0.9817	20,690
Cd2265_A		-0.0002760	ug/L	0.004476	1,622	3.557
Co2286_A		11.03	ug/L	0.1674	1.517	41.17
Cr2677_A		1.527	ug/L	0.04821	3.157	20.03
Cu3273_A		0.8755	ug/L	0.2141	24.46	33.31
Fe2599_R		2,881	ug/L	13.05	0.4531	2,423
K_7664_R		2,003	ug/L	17.13	0.8555	906.5
Li6707_R		11.64	ug/L	0.5987	5.143	104.8
Mg2025_A		2,203	ug/L	18.45	0.8374	678.6
Mn2576_R		412.0	ug/L	1.528	0.3710	1,274
Mo2020_A		23.46	ug/L	0.1321	0.5632	58.72
Na5895_R	F	302,800	ug/L	1,687	0.5573	553,000
Ni2316_A		17.19	ug/L	0.05159	0.3001	43.42
Pb2203_A		16.07	ug/L	0.3827	2.382	18.90
Sb2068_A		4.677	ug/L	0.2851	6.095	2.524
Se1960_A		0.8410	ug/L	0.1936	23.03	2.494
Si2516_R		776.8	ug/L	5.217	0.6716	235.5
Sn1899_A		0.6627	ug/L	0.2729	41.18	2.651
Sr4215_R		201.3	ug/L	1.622	0.8054	9,266
Ti3349_A		2.321	ug/L	0.05651	2.435	161.5
Tl1908_A		-1.169	ug/L	0.5124	43.85	-3.449
V_2924_A		1.650	ug/L	0.2090	12.67	9.570
Zn2062_A		974.9	ug/L	4.291	0.4401	3,404
Y_3600_R		9,061.0	Cts/S	69.021	0.76174	9,061.0
Y_2243_A		7,302.6	Cts/S	33.790	0.46271	7,302.6
Y_3600_A		167,030	Cts/S	264.96	0.15863	167,030

SQ5103-001

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:47:40PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.04606	ug/L	0.4312	936.2	5.616
Al3961_R		47.27	ug/L	3.114	6.588	26.66
As1891_A		-1.703	ug/L	0.1975	11.59	-3.445
B_2089_A		3.092	ug/L	0.03983	1.288	8.860
Ba4554_R		19.82	ug/L	0.1279	0.6456	825.0
Be3130_R		0.08605	ug/L	0.1684	195.7	3.067
Ca3158_R		10,170	ug/L	25.19	0.2477	4,929
Cd2265_A		0.1001	ug/L	0.001708	1.707	-0.7342
Co2286_A		4.239	ug/L	0.1852	4.370	15.67
Cr2677_A		0.5317	ug/L	0.1050	19.75	9.741
Cu3273_A		1.411	ug/L	0.1565	11.09	39.36
Fe2599_R		12.69	ug/L	0.8334	6.568	10.96
K_7664_R		1,310	ug/L	22.26	1.699	609.0
Li6707_R		11.12	ug/L	0.1561	1.404	99.37
Mg2025_A		2,040	ug/L	8.792	0.4309	610.5
Mn2576_R		573.3	ug/L	0.6090	0.1062	1,762
Mo2020_A		0.3479	ug/L	0.01195	3.436	2.026
Na5895_R	F	353,200	ug/L	3,722	1.054	640,800
Ni2316_A		6.150	ug/L	0.08412	1.368	14.34

SQ5109-001 10/2/23

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:47:40PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		0.4881	ug/L	0.8235	168.7	-0.4374
Sb2068_A		-0.1343	ug/L	1.039	774.0	-0.3646
Se1960_A		2.097	ug/L	0.6448	30.76	2.720
Si2516_R		781.9	ug/L	5.825	0.7450	235.5
Sn1899_A		0.1819	ug/L	0.3353	184.3	2.308
Sr4215_R		72.49	ug/L	0.04787	0.06604	3,293
Ti3349_A		0.9740	ug/L	0.1020	10.47	67.47
Tl1908_A		-0.7953	ug/L	0.8922	112.2	-3.378
V_2924_A		0.2781	ug/L	0.3557	127.9	-6.100
Zn2062_A		5.082	ug/L	0.1825	3.591	18.53
Y_3600_R		8,999.6	Cts/S	8.2319	0.091469	8,999.6
Y_2243_A		7,098.3	Cts/S	19.564	0.27562	7,098.3
Y_3600_A		162,690	Cts/S	493.59	0.30340	162,690

SQ5109-001 10/2/23

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:52:05PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.3198	ug/L	0.2203	68.87	1.275
Al3961_R		28.33	ug/L	14.16	49.97	18.58
As1891_A		-1.513	ug/L	0.7227	47.76	-3.667
B_2089_A		31.11	ug/L	0.2799	0.8997	60.38
Ba4554_R		57.66	ug/L	0.1109	0.1924	2,435
Be3130_R		-0.01393	ug/L	0.04495	322.8	-1.682
Ca3158_R		17,120	ug/L	26.85	0.1568	8,547
Cd2265_A		-0.02950	ug/L	0.06088	206.4	-3.060
Co2286_A		-0.1145	ug/L	0.07245	63.27	0.1387
Cr2677_A		4.788	ug/L	0.09558	1.996	58.64
Cu3273_A		0.9125	ug/L	0.1096	12.01	33.32
Fe2599_R		10.82	ug/L	0.002995	0.02767	9.658
K_7664_R		5,477	ug/L	20.06	0.3663	2,427
Li6707_R		8.577	ug/L	0.2467	2.876	78.62
Mg2025_A		11.57	ug/L	0.06187	0.5348	-2.322
Mn2576_R		0.2726	ug/L	0.7304	267.9	-0.7605
Mo2020_A		38.18	ug/L	0.1117	0.2925	100.9
Na5895_R		8,994	ug/L	13.41	0.1491	17,110
Ni2316_A		0.09949	ug/L	0.03522	35.40	-1.133
Pb2203_A		-0.02270	ug/L	0.2629	1,158	-1.229
Sb2068_A		-0.1983	ug/L	0.3051	153.8	-0.4076
Se1960_A		-0.3371	ug/L	1.354	401.6	2.225
Si2516_R		1,103	ug/L	2.319	0.2102	335.8
Sn1899_A		0.2501	ug/L	0.08512	34.03	2.568
Sr4215_R		75.47	ug/L	0.2648	0.3509	3,524
Ti3349_A		1.484	ug/L	0.01520	1.024	112.0
Tl1908_A		0.4907	ug/L	0.3169	64.58	-2.265
V_2924_A		2.147	ug/L	0.2296	10.69	17.01
Zn2062_A		37.10	ug/L	0.2360	0.6362	139.1
Y_3600_R		9,248.3	Cts/S	35.885	0.38802	9,248.3
Y_2243_A		7,769.2	Cts/S	2.3889	0.030749	7,769.2
Y_3600_A		179,740	Cts/S	1,717.1	0.95533	179,740

SQ5109-001L 10/2/23

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:56:29PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

SQ5109-001L

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:56:29PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-1.183	ug/L	0.5683	48.03	2.729
Al3961_R		-14.59	ug/L	11.72	80.31	-1.976
As1891_A		4.261	ug/L	7.997	187.7	-2.816
B_2089_A		32.50	ug/L	0.8040	2.474	15.79
Ba4554_R		60.51	ug/L	1.233	2.037	508.0
Be3130_R		0.3143	ug/L	0.2257	71.81	2.003
Ca3158_R		17,880	ug/L	116.0	0.6488	1,708
Cd2265_A		-0.05193	ug/L	0.05062	97.49	-2.699
Co2286_A		0.2902	ug/L	0.3059	105.4	0.7930
Cr2677_A		4.110	ug/L	0.4513	10.98	10.62
Cu3273_A		-0.8519	ug/L	0.8983	105.4	11.01
Fe2599_R		24.17	ug/L	8.486	35.10	4.379
K_7664_R		5,855	ug/L	65.64	1.121	548.2
Li6707_R		11.66	ug/L	1.940	16.64	20.31
Mg2025_A		10.77	ug/L	8.720	80.94	-5.474
Mn2576_R		3.219	ug/L	2.230	69.28	0.4066
Mo2020_A		40.92	ug/L	0.4924	1.203	22.32
Na5895_R		9,946	ug/L	110.9	1.115	3,935
Ni2316_A		0.8731	ug/L	0.2603	29.81	-0.9252
Pb2203_A		-2.440	ug/L	0.8557	35.07	-1.757
Sb2068_A		-1.142	ug/L	1.177	103.1	-0.4473
Se1960_A		-2.793	ug/L	0.07023	2.515	2.133
Si2516_R		1,144	ug/L	48.44	4.234	77.97
Sn1899_A		-0.7153	ug/L	3.806	532.0	2.290
Sr4215_R		79.08	ug/L	1.124	1.421	690.4
Ti3349_A		1.576	ug/L	0.1060	6.724	25.23
Tl1908_A		-1.211	ug/L	2.597	214.4	-2.609
V_2924_A		1.272	ug/L	0.7214	56.72	-5.188
Zn2062_A		39.76	ug/L	0.3282	0.8254	30.47
Y_3600_R		8,962.0	Cts/S	33.552	0.37438	8,962.0
Y_2243_A		7,650.0	Cts/S	16.712	0.21846	7,650.0
Y_3600_A		175,480	Cts/S	909.53	0.51831	175,480

SQ5109-001N

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:00:52PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		21.47	ug/L	0.2811	1.309	356.4
Al3961_R		903.7	ug/L	6.532	0.7228	495.5
As1891_A		41.94	ug/L	1.090	2.599	10.66
B_2089_A		215.0	ug/L	4.243	1.974	347.5
Ba4554_R		851.6	ug/L	7.492	0.8797	34,450
Be3130_R		21.46	ug/L	0.03597	0.1676	990.1
Ca3158_R		10,240	ug/L	28.92	0.2823	4,920
Cd2265_A		107.2	ug/L	2.345	2.187	1,714
Co2286_A		218.7	ug/L	4.646	2.124	784.9
Cr2677_A		87.39	ug/L	0.2050	0.2346	959.7
Cu3273_A		108.7	ug/L	0.6923	0.6370	2,019
Fe2599_R		429.9	ug/L	0.3037	0.07064	356.1
K_7664_R		5,207	ug/L	51.56	0.9902	2,228
Li6707_R		213.5	ug/L	1.456	0.6819	1,900
Mg2025_A		3,797	ug/L	79.08	2.083	1,152
Mn2576_R		720.4	ug/L	1.276	0.1771	2,194
Mo2020_A		42.76	ug/L	0.8262	1.932	103.2
Na5895_R	F	322,400	ug/L	5,047	1.565	579,600
Ni2316_A		220.6	ug/L	4.926	2.233	561.1

SQ5109-001N

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:00:52PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		42.28	ug/L	0.5233	1.238	50.16
Sb2068_A		42.83	ug/L	0.8688	2.029	23.90
Se1960_A		43.63	ug/L	0.1773	0.4063	12.86
Si2516_R		1,138	ug/L	5.592	0.4915	333.3
Sn1899_A		212.1	ug/L	4.921	2.320	121.3
Sr4215_R		271.4	ug/L	1.554	0.5725	12,300
Ti3349_A		210.5	ug/L	0.1080	0.05133	14,100
Tl1908_A		39.84	ug/L	0.6727	1.688	16.13
V_2924_A		218.1	ug/L	0.4416	0.2024	2,716
Zn2062_A		228.3	ug/L	4.381	1.919	777.1
Y_3600_R		8,916.9	Cts/S	8.5149	0.095492	8,916.9
Y_2243_A		7,113.9	Cts/S	117.51	1.6519	7,113.9
Y_3600_A		163,010	Cts/S	1,145.0	0.70239	163,010

CCV

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:05:10PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A	W	527.6	ug/L	0.8184	0.1551	9,115
Al3961_R	W	13,330	ug/L	44.94	0.3371	7,225
As1891_A		517.7	ug/L	0.8123	0.1569	172.3
B_2089_A		524.2	ug/L	0.09821	0.01873	907.0
Ba4554_R		525.5	ug/L	0.4134	0.07867	21,040
Be3130_R	W	529.7	ug/L	2.193	0.4141	24,380
Ca3158_R		13,140	ug/L	18.72	0.1425	6,253
Cd2265_A		524.8	ug/L	1.841	0.3509	8,853
Co2286_A	W	531.0	ug/L	1.026	0.1933	2,002
Cr2677_A	W	530.6	ug/L	0.3064	0.05774	6,141
Cu3273_A		526.0	ug/L	2.421	0.4602	10,310
Fe2599_R	W	13,260	ug/L	16.46	0.1241	10,850
K_7664_R		13,170	ug/L	34.36	0.2609	5,489
Li6707_R	W	534.8	ug/L	1.681	0.3144	4,711
Mg2025_A	W	13,240	ug/L	6.165	0.04657	4,230
Mn2576_R	W	532.6	ug/L	4.660	0.8748	1,605
Mo2020_A		526.2	ug/L	1.155	0.2196	1,321
Na5895_R	W	13,500	ug/L	14.69	0.1088	24,350
Ni2316_A	W	531.1	ug/L	1.015	0.1911	1,421
Pb2203_A	W	532.7	ug/L	1.769	0.3322	676.7
Sb2068_A		514.8	ug/L	2.091	0.4062	314.7
Se1960_A		514.7	ug/L	2.913	0.5659	133.3
Si2516_R		13,240	ug/L	16.76	0.1266	3,701
Sn1899_A	W	529.6	ug/L	1.974	0.3727	314.9
Sr4215_R		525.6	ug/L	0.1830	0.03481	23,610
Ti3349_A	W	528.1	ug/L	0.8395	0.1590	37,440
Tl1908_A	W	537.2	ug/L	0.3567	0.06640	269.6
V_2924_A		523.3	ug/L	1.229	0.2349	6,854
Zn2062_A		526.3	ug/L	3.712	0.7053	1,880
Y_3600_R		8,824.4	Cts/S	7.7551	0.087883	8,824.4
Y_2243_A		7,476.1	Cts/S	30.791	0.41185	7,476.1
Y_3600_A		172,580	Cts/S	352.37	0.20418	172,580

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:09:19PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:09:19PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.2559	ug/L	0.06746	26.37	2.429
Al3961_R		-8.068	ug/L	1.886	23.37	-5.460
As1891_A		0.5679	ug/L	1.170	206.0	-2.894
B_2089_A		0.4695	ug/L	0.2139	45.57	5.099
Ba4554_R		0.1082	ug/L	0.2297	212.2	20.25
Be3130_R		0.09114	ug/L	0.07133	78.26	3.278
Ca3158_R		-3.197	ug/L	0.1301	4.071	-28.46
Cd2265_A		0.02924	ug/L	0.04129	141.2	-1.997
Co2286_A		0.09818	ug/L	0.05280	53.78	0.9378
Cr2677_A		-0.05071	ug/L	0.01025	20.22	0.3583
Cu3273_A		0.06590	ug/L	0.01123	17.04	16.00
Fe2599_R		5.430	ug/L	1.549	28.53	4.815
K_7664_R		27.40	ug/L	41.24	150.5	68.35
Li6707_R		1.905	ug/L	3.129	164.2	16.19
Mg2025_A		0.3774	ug/L	0.1714	45.42	-6.021
Mn2576_R		0.4135	ug/L	0.1101	26.63	-0.2964
Mo2020_A		1.799	ug/L	0.4267	23.72	5.882
Na5895_R		116.1	ug/L	7.136	6.148	546.5
Ni2316_A		0.1519	ug/L	0.1194	78.61	-0.9821
Pb2203_A		-0.06810	ug/L	0.8296	1,218	-1.184
Sb2068_A		2.079	ug/L	0.7953	38.26	0.9737
Se1960_A		1.347	ug/L	1.149	85.32	2.603
Si2516_R		18.44	ug/L	10.21	55.38	18.22
Sn1899_A		-0.6683	ug/L	0.2458	36.78	1.955
Sr4215_R		-0.01543	ug/L	0.2517	1,631	-32.42
Ti3349_A		0.1093	ug/L	0.01937	17.72	10.61
Tl1908_A		0.7631	ug/L	0.09907	12.98	-2.067
V_2924_A		0.3059	ug/L	0.1395	45.61	-3.765
Zn2062_A		0.04731	ug/L	0.03492	73.83	1.551
Y_3600_R		8,857.8	Cts/S	71.331	0.80529	8,857.8
Y_2243_A		7,577.9	Cts/S	12.100	0.15968	7,577.9
Y_3600_A		178,510	Cts/S	243.43	0.13637	178,510

SQ5109-001O

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:13:43PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		21.71	ug/L	0.2557	1.178	360.9
Al3961_R		872.7	ug/L	14.85	1.701	485.5
As1891_A		40.69	ug/L	0.1577	0.3876	10.33
B_2089_A		213.2	ug/L	0.5496	0.2577	346.9
Ba4554_R		839.0	ug/L	5.927	0.7064	34,440
Be3130_R		21.04	ug/L	0.1838	0.8736	984.7
Ca3158_R		10,040	ug/L	104.8	1.044	4,893
Cd2265_A		105.9	ug/L	0.1701	0.1606	1,704
Co2286_A		216.5	ug/L	0.2234	0.1032	781.6
Cr2677_A		86.66	ug/L	1.426	1.645	953.4
Cu3273_A		107.7	ug/L	0.4950	0.4594	2,006
Fe2599_R		430.9	ug/L	5.646	1.310	362.1
K_7664_R		5,113	ug/L	76.03	1.487	2,220
Li6707_R		211.1	ug/L	1.020	0.4834	1,906
Mg2025_A		3,759	ug/L	14.09	0.3749	1,148
Mn2576_R		708.0	ug/L	4.045	0.5714	2,188
Mo2020_A		42.81	ug/L	0.2185	0.5104	104.0
Na5895_R	F	320,000	ug/L	5,955	1.861	583,600
Ni2316_A		218.9	ug/L	0.6959	0.3180	560.1

SQ5109-001O

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:13:43PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		42.01	ug/L	0.6691	1.593	50.14
Sb2068_A		43.15	ug/L	0.4809	1.114	24.25
Se1960_A		44.70	ug/L	0.3009	0.6732	13.19
Si2516_R		1,128	ug/L	14.41	1.278	335.2
Sn1899_A		209.6	ug/L	0.5847	0.2789	120.7
Sr4215_R		268.1	ug/L	2.324	0.8668	12,330
Ti3349_A		209.6	ug/L	1.703	0.8125	14,060
Tl1908_A		39.16	ug/L	0.2051	0.5237	15.91
V_2924_A		215.3	ug/L	2.385	1.108	2,686
Zn2062_A		226.0	ug/L	0.7122	0.3152	773.9
Y_3600_R		9,046.9	Cts/S	47.630	0.52648	9,046.9
Y_2243_A		7,156.9	Cts/S	13.664	0.19092	7,156.9
Y_3600_A		163,320	Cts/S	1,280.9	0.78426	163,320

SQ5170-001

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:18:00PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.1148	ug/L	0.1903	165.8	4.749
Al3961_R		8.369	ug/L	1.118	13.36	15.65
As1891_A		-0.4564	ug/L	0.8347	182.9	-3.227
B_2089_A		35.91	ug/L	0.3100	0.8633	64.61
Ba4554_R		7.542	ug/L	0.09461	1.254	325.5
Be3130_R		0.03947	ug/L	0.01239	31.38	0.8231
Ca3158_R	W	72,520	ug/L	324.1	0.4470	35,490
Cd2265_A		-0.01780	ug/L	0.02030	114.1	-2.777
Co2286_A		-0.01061	ug/L	0.002723	25.66	0.5394
Cr2677_A		0.7828	ug/L	0.07320	9.351	9.970
Cu3273_A		0.08560	ug/L	0.1633	190.7	15.77
Fe2599_R		7.720	ug/L	0.2898	3.754	6.842
K_7664_R		2,232	ug/L	34.97	1.567	1,001
Li6707_R		4.538	ug/L	0.4646	10.24	40.40
Mg2025_A		2,142	ug/L	5.225	0.2440	679.9
Mn2576_R		0.9318	ug/L	0.7398	79.40	1.306
Mo2020_A		0.8364	ug/L	0.1371	16.39	3.414
Na5895_R		10,150	ug/L	18.51	0.1823	18,840
Ni2316_A		2.025	ug/L	0.2115	10.44	4.081
Pb2203_A		-0.1507	ug/L	0.5839	387.5	-1.283
Sb2068_A		0.6465	ug/L	0.7718	119.4	0.09995
Se1960_A		1.254	ug/L	0.3328	26.53	2.563
Si2516_R		6,580	ug/L	22.28	0.3386	1,892
Sn1899_A		-0.2757	ug/L	0.3460	125.5	2.177
Sr4215_R		181.6	ug/L	0.3466	0.1909	8,338
Ti3349_A		2.524	ug/L	0.05231	2.073	181.2
Tl1908_A		-0.2564	ug/L	0.4485	174.9	-2.577
V_2924_A		0.03666	ug/L	0.03916	106.8	-7.114
Zn2062_A		0.6902	ug/L	0.03738	5.415	3.852
Y_3600_R		9,042.1	Cts/S	8.4314	0.093246	9,042.1
Y_2243_A		7,531.4	Cts/S	21.099	0.28014	7,531.4
Y_3600_A		172,370	Cts/S	2,734.3	1.5864	172,370

SQ5170-002

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:22:19PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

SQ5170-002

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:22:19PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.3614	ug/L	0.1414	39.13	0.5291
Al3961_R		-3.803	ug/L	1.134	29.82	8.719
As1891_A		0.03226	ug/L	1.318	4,086	-3.082
B_2089_A		36.14	ug/L	0.2892	0.8000	64.60
Ba4554_R		10.54	ug/L	0.1016	0.9644	444.9
Be3130_R		0.003852	ug/L	0.03717	964.8	-0.8487
Ca3158_R	W	71,910	ug/L	488.1	0.6788	34,920
Cd2265_A		-0.03138	ug/L	0.01951	62.17	-1.709
Co2286_A		-0.1349	ug/L	0.09601	71.15	0.08041
Cr2677_A		0.5594	ug/L	0.1121	20.04	7.537
Cu3273_A		7.741	ug/L	0.1018	1.315	167.7
Fe2599_R		605.4	ug/L	5.267	0.8700	504.4
K_7664_R		2,274	ug/L	3.954	0.1739	1,011
Li6707_R		5.396	ug/L	1.235	22.89	47.80
Mg2025_A		2,124	ug/L	13.47	0.6345	670.2
Mn2576_R		22.94	ug/L	0.2821	1.230	68.78
Mo2020_A		0.3330	ug/L	0.1838	55.19	2.129
Na5895_R		9,241	ug/L	35.58	0.3850	17,050
Ni2316_A		-0.02072	ug/L	0.08703	420.1	-1.486
Pb2203_A		0.5630	ug/L	0.3406	60.51	-0.3295
Sb2068_A		-0.3230	ug/L	0.6112	189.2	-0.4926
Se1960_A		0.7214	ug/L	1.197	165.9	2.423
Si2516_R		6,804	ug/L	7.644	0.1123	1,941
Sn1899_A		0.5727	ug/L	0.2923	51.04	2.665
Sr4215_R		183.0	ug/L	0.07661	0.04186	8,337
Ti3349_A		2.529	ug/L	0.03824	1.512	183.3
Tl1908_A		-0.5513	ug/L	1.386	251.5	-2.743
V_2924_A		0.08996	ug/L	0.2770	307.9	-6.441
Zn2062_A		2.803	ug/L	0.02239	0.7989	11.39
Y_3600_R		8,972.7	Cts/S	31.441	0.35041	8,972.7
Y_2243_A		7,487.2	Cts/S	35.055	0.46820	7,487.2
Y_3600_A		173,980	Cts/S	1,484.9	0.85351	173,980

SQ5170-003

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:26:42PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.06067	ug/L	0.008719	14.37	5.737
Al3961_R		35.65	ug/L	1.006	2.821	32.26
As1891_A		0.3423	ug/L	0.4698	137.2	-2.948
B_2089_A		21.99	ug/L	0.5097	2.318	40.27
Ba4554_R		16.30	ug/L	0.08805	0.5402	686.4
Be3130_R		0.01724	ug/L	0.05249	304.6	-0.2246
Ca3158_R	W	80,960	ug/L	1,002	1.238	39,730
Cd2265_A		-0.02242	ug/L	0.02505	111.7	-0.9101
Co2286_A		1.259	ug/L	0.3895	30.94	5.249
Cr2677_A		0.7613	ug/L	0.1133	14.88	9.914
Cu3273_A		3.811	ug/L	0.05858	1.537	89.89
Fe2599_R		904.4	ug/L	3.370	0.3726	761.3
K_7664_R		1,321	ug/L	9.375	0.7099	617.9
Li6707_R		3.421	ug/L	1.256	36.72	30.42
Mg2025_A		2,224	ug/L	7.742	0.3481	690.8
Mn2576_R		43.20	ug/L	0.001254	0.002903	132.3
Mo2020_A		0.4513	ug/L	0.1600	35.45	2.385
Na5895_R		7,393	ug/L	3.132	0.04237	13,850
Ni2316_A		3.342	ug/L	0.01997	0.5977	7.390

SQ5170-003

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:26:42PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		1.035	ug/L	0.2106	20.34	0.2766
Sb2068_A		-0.2043	ug/L	0.8085	395.8	-0.4091
Se1960_A		1.464	ug/L	0.3240	22.13	2.576
Si2516_R		5,336	ug/L	33.56	0.6290	1,541
Sn1899_A		0.6599	ug/L	0.005096	0.7723	2.672
Sr4215_R		194.6	ug/L	0.3941	0.2025	8,961
Ti3349_A		2.548	ug/L	0.1572	6.171	183.2
Tl1908_A		-0.7332	ug/L	0.05203	7.096	-2.811
V_2924_A		0.1567	ug/L	0.1770	112.9	-5.615
Zn2062_A		42.76	ug/L	0.3077	0.7195	151.9
Y_3600_R		9,066.2	Cts/S	23.816	0.26269	9,066.2
Y_2243_A		7,364.8	Cts/S	25.657	0.34838	7,364.8
Y_3600_A		172,670	Cts/S	101.17	0.058592	172,670

SQ5170-004

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:31:04PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.1677	ug/L	0.4107	244.9	3.908
Al3961_R		-2.925	ug/L	8.814	301.3	9.281
As1891_A		0.1282	ug/L	0.4864	379.5	-3.016
B_2089_A		34.16	ug/L	0.1398	0.4092	60.90
Ba4554_R		11.02	ug/L	0.1025	0.9298	466.8
Be3130_R		-0.0002490	ug/L	0.005131	2,063	-1.045
Ca3158_R	W	72,040	ug/L	596.6	0.8282	35,150
Cd2265_A		-0.05574	ug/L	0.01629	29.23	-2.577
Co2286_A		-0.01047	ug/L	0.1019	972.5	0.5428
Cr2677_A		0.6529	ug/L	0.01429	2.189	8.695
Cu3273_A		0.2370	ug/L	0.2109	88.98	19.51
Fe2599_R		384.9	ug/L	3.317	0.8618	322.4
K_7664_R		2,115	ug/L	49.94	2.362	949.3
Li6707_R		3.579	ug/L	0.06351	1.775	31.66
Mg2025_A		2,150	ug/L	25.34	1.179	674.6
Mn2576_R		22.96	ug/L	0.4333	1.887	69.19
Mo2020_A		0.2668	ug/L	0.1209	45.32	1.948
Na5895_R		9,785	ug/L	11.64	0.1189	18,120
Ni2316_A		0.6626	ug/L	0.1612	24.33	0.3621
Pb2203_A		0.5952	ug/L	0.2149	36.10	-0.3024
Sb2068_A		-1.058	ug/L	1.174	111.0	-0.9278
Se1960_A		0.4208	ug/L	0.4325	102.8	2.331
Si2516_R		6,448	ug/L	20.94	0.3248	1,849
Sn1899_A		0.1918	ug/L	0.5618	292.9	2.423
Sr4215_R		182.2	ug/L	0.6326	0.3473	8,339
Ti3349_A		2.469	ug/L	0.01057	0.4282	179.9
Tl1908_A		0.01619	ug/L	0.5608	3,464	-2.436
V_2924_A		0.3596	ug/L	0.1546	43.01	-2.881
Zn2062_A		6.605	ug/L	0.08167	1.236	24.84
Y_3600_R		9,015.8	Cts/S	52.123	0.57813	9,015.8
Y_2243_A		7,442.2	Cts/S	96.106	1.2914	7,442.2
Y_3600_A		174,850	Cts/S	857.30	0.49031	174,850

SQ4950-001

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:35:28PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

SQ4950-001

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:35:28PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-2.576	ug/L	1.337	51.89	-20.58
Al3961_R	W	166,100	ug/L	680.7	0.4097	47,840
As1891_A		76.85	ug/L	1.308	1.702	-0.1291
B_2089_A		20.52	ug/L	0.8654	4.218	21.50
Ba4554_R		662.6	ug/L	5.001	0.7548	14,120
Be3130_R		5.377	ug/L	0.2103	3.911	-261.1
Ca3158_R	W	60,640	ug/L	173.2	0.2856	15,390
Cd2265_A		1.945	ug/L	0.2001	10.29	345.5
Co2286_A		164.4	ug/L	0.01849	0.01125	389.1
Cr2677_A		342.3	ug/L	2.096	0.6123	2,031
Cu3273_A		328.1	ug/L	1.008	0.3072	3,324
Fe2599_R	W	296,200	ug/L	460.6	0.1555	129,100
K_7664_R		30,850	ug/L	213.7	0.6926	6,832
Li6707_R		289.6	ug/L	0.04233	0.01461	1,357
Mg2025_A	W	106,700	ug/L	24.15	0.02263	17,120
Mn2576_R	W	6,582	ug/L	8.106	0.1232	10,560
Mo2020_A		1.140	ug/L	0.03838	3.367	2.499
Na5895_R		3,959	ug/L	9.334	0.2357	4,105
Ni2316_A		307.4	ug/L	0.4883	0.1588	401.5
Pb2203_A		74.57	ug/L	0.7480	1.003	43.78
Sb2068_A		1.640	ug/L	0.8843	53.94	3.658
Se1960_A		-0.8673	ug/L	4.790	552.3	4.765
Si2516_R		1,868	ug/L	52.03	2.785	274.0
Sn1899_A		54.28	ug/L	0.3038	0.5597	18.51
Sr4215_R		171.1	ug/L	1.102	0.6440	4,060
Ti3349_A	W	18,650	ug/L	68.96	0.3698	675,300
Tl1908_A		4.771	ug/L	2.896	60.69	-11.73
V_2924_A		598.9	ug/L	2.631	0.4393	4,076
Zn2062_A		657.2	ug/L	2.151	0.3273	1,185
Y_3600_R		9,390.3	Cts/S	12.577	0.13394	9,390.3
Y_2243_A		7,543.3	Cts/S	7.0772	0.093821	7,543.3
Y_3600_A		176,310	Cts/S	652.03	0.36981	176,310

SQ5078-004

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:39:51PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-1.201	ug/L	2.160	179.9	3.998
Al3961_R		-69.05	ug/L	0.5310	0.7691	1.382
As1891_A		-7.357	ug/L	1.413	19.20	-2.912
B_2089_A		4,473	ug/L	4.487	0.1003	662.9
Ba4554_R		7.547	ug/L	2.354	31.19	43.97
Be3130_R		0.8914	ug/L	0.4240	47.56	2.941
Ca3158_R	W	384,500	ug/L	440.3	0.1145	17,520
Cd2265_A		-0.1976	ug/L	0.3065	155.1	-2.463
Co2286_A		2.212	ug/L	0.4213	19.05	1.242
Cr2677_A		2.011	ug/L	2.311	115.0	2.779
Cu3273_A		-1.998	ug/L	4.197	210.1	8.753
Fe2599_R		65.14	ug/L	51.28	78.73	5.417
K_7664_R	W	396,500	ug/L	824.6	0.2080	15,670
Li6707_R		260.7	ug/L	0.04114	0.01578	218.8
Mg2025_A	W	1,183,000	ug/L	311.9	0.02637	33,200
Mn2576_R		7.470	ug/L	6.676	89.37	1.041
Mo2020_A		8.063	ug/L	1.286	15.95	2.925
Na5895_R	F	9,649,000	ug/L	6,834	0.07082	1,639,000
Ni2316_A		6.077	ug/L	2.642	43.47	0.2229

SQ5078-004

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:39:51PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		-10.48	ug/L	0.2240	2.138	-2.134
Sb2068_A		3.143	ug/L	5.756	183.1	-0.09940
Se1960_A		0.1363	ug/L	27.39	20,090	1.969
Si2516_R		178.8	ug/L	41.33	23.12	17.18
Sn1899_A		2.167	ug/L	0.1064	4.910	2.164
Sr4215_R		7,325	ug/L	27.40	0.3741	31,430
Ti3349_A		25.89	ug/L	0.3299	1.274	158.9
Tl1908_A		17.66	ug/L	7.724	43.73	-1.352
V_2924_A		-1.511	ug/L	3.390	224.4	-8.191
Zn2062_A		4.161	ug/L	0.9465	22.75	2.513
Y_3600_R		8,427.4	Cts/S	69.500	0.82469	8,427.4
Y_2243_A		6,600.8	Cts/S	6.0212	0.091219	6,600.8
Y_3600_A		147,350	Cts/S	552.87	0.37520	147,350

RINSE4

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:44:15PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.07721	ug/L	0.2565	332.2	8.102
Al3961_R		-0.6306	ug/L	1.934	306.6	-1.439
As1891_A		-0.4760	ug/L	0.1008	21.17	-3.211
B_2089_A		0.01676	ug/L	0.2085	1,244	4.178
Ba4554_R		0.1416	ug/L	0.2544	179.7	21.45
Be3130_R		0.01852	ug/L	0.02150	116.0	-0.06268
Ca3158_R		-7.022	ug/L	6.302	89.76	-30.08
Cd2265_A		-0.01544	ug/L	0.01666	107.9	-2.729
Co2286_A		0.1103	ug/L	0.08793	79.74	0.9705
Cr2677_A		-0.1908	ug/L	0.2068	108.4	-1.279
Cu3273_A		-0.3107	ug/L	0.3678	118.4	8.100
Fe2599_R		1.692	ug/L	1.580	93.38	1.740
K_7664_R		153.4	ug/L	21.30	13.88	119.7
Li6707_R		3.151	ug/L	1.589	50.42	27.17
Mg2025_A		-1.304	ug/L	0.8739	67.02	-6.483
Mn2576_R		0.01317	ug/L	0.3841	2,918	-1.496
Mo2020_A		-0.04162	ug/L	0.01978	47.54	1.186
Na5895_R		583.2	ug/L	29.96	5.136	1,371
Ni2316_A		0.06949	ug/L	0.02064	29.70	-1.190
Pb2203_A		-0.1251	ug/L	0.1264	101.1	-1.240
Sb2068_A		-0.3219	ug/L	0.6261	194.5	-0.4978
Se1960_A		0.6588	ug/L	0.3522	53.46	2.393
Si2516_R		-11.09	ug/L	0.2606	2.350	9.879
Sn1899_A		-0.6592	ug/L	0.6686	101.4	1.934
Sr4215_R		0.1009	ug/L	0.06524	64.66	-26.93
Ti3349_A		0.1005	ug/L	0.03981	39.62	9.643
Tl1908_A		0.009088	ug/L	0.4915	5,408	-2.421
V_2924_A		0.1699	ug/L	0.1738	102.3	-5.222
Zn2062_A		0.07204	ug/L	0.004388	6.091	1.619
Y_3600_R		8,797.3	Cts/S	47.139	0.53584	8,797.3
Y_2243_A		7,476.7	Cts/S	4.4276	0.059219	7,476.7
Y_3600_A		172,580	Cts/S	393.05	0.22775	172,580

SQ5112-001

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:48:38PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

SQ5112-001

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:48:38PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.4078	ug/L	0.4133	101.3	-0.2416
Al3961_R		10.63	ug/L	5.495	51.69	5.699
As1891_A		1.860	ug/L	0.2746	14.77	-2.450
B_2089_A		6.106	ug/L	0.05658	0.9266	14.52
Ba4554_R		1.795	ug/L	0.02778	1.548	92.18
Be3130_R		-0.02755	ug/L	0.07037	255.4	-2.315
Ca3158_R		4,885	ug/L	30.67	0.6279	2,426
Cd2265_A		0.05551	ug/L	0.02624	47.28	-1.512
Co2286_A		0.1261	ug/L	0.1392	110.4	1.050
Cr2677_A		1.230	ug/L	0.06860	5.575	15.60
Cu3273_A		-0.1097	ug/L	0.3229	294.4	12.31
Fe2599_R		21.58	ug/L	1.700	7.880	18.96
K_7664_R		1,358	ug/L	38.89	2.863	648.5
Li6707_R		2.132	ug/L	0.08087	3.793	19.17
Mg2025_A		473.8	ug/L	3.835	0.8096	146.5
Mn2576_R		7.668	ug/L	0.5820	7.591	22.70
Mo2020_A		-0.2706	ug/L	0.1018	37.61	0.6193
Na5895_R	W	50,950	ug/L	431.8	0.8475	95,550
Ni2316_A		0.5127	ug/L	0.04985	9.723	-0.004426
Pb2203_A		0.3929	ug/L	0.07762	19.75	-0.5862
Sb2068_A		-0.6017	ug/L	0.1244	20.67	-0.6542
Se1960_A		-1.968	ug/L	1.169	59.41	1.750
Si2516_R		5,365	ug/L	62.91	1.173	1,585
Sn1899_A		-1.352	ug/L	0.8855	65.48	1.545
Sr4215_R		66.79	ug/L	0.5285	0.7912	3,124
Ti3349_A		0.9804	ug/L	0.0006390	0.06520	73.93
Tl1908_A		2.837	ug/L	0.6879	24.25	-1.010
V_2924_A		0.2664	ug/L	0.07471	28.04	-4.089
Zn2062_A		0.6849	ug/L	0.03629	5.298	3.852
Y_3600_R		9,275.0	Cts/S	115.83	1.2489	9,275.0
Y_2243_A		7,572.6	Cts/S	3.0136	0.039796	7,572.6
Y_3600_A		177,090	Cts/S	2,020.2	1.1408	177,090

SQ5112-002

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:53:01PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.2000	ug/L	0.1633	81.65	3.433
Al3961_R		83.47	ug/L	4.178	5.005	47.99
As1891_A		2.543	ug/L	0.01622	0.6377	-2.256
B_2089_A		7.938	ug/L	0.2805	3.534	17.90
Ba4554_R		1.852	ug/L	0.01958	1.057	94.01
Be3130_R		0.04681	ug/L	0.09197	196.5	1.090
Ca3158_R		11,520	ug/L	79.51	0.6904	5,722
Cd2265_A		0.02722	ug/L	0.01316	48.34	-1.880
Co2286_A		0.2832	ug/L	0.06201	21.89	1.705
Cr2677_A		2.333	ug/L	0.005430	0.2328	28.98
Cu3273_A		0.09369	ug/L	0.2224	237.4	16.62
Fe2599_R		86.23	ug/L	1.977	2.293	74.15
K_7664_R		2,084	ug/L	0.2462	0.01182	957.3
Li6707_R		0.4813	ug/L	0.6053	125.8	3.837
Mg2025_A		2,728	ug/L	4.848	0.1777	886.6
Mn2576_R		2.933	ug/L	0.6384	21.76	7.632
Mo2020_A		-0.2171	ug/L	0.008472	3.903	0.7680
Na5895_R	W	26,120	ug/L	63.83	0.2444	48,870
Ni2316_A		0.5675	ug/L	0.01636	2.883	0.1412

SQ5112-002

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:53:01PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		0.7344	ug/L	0.2626	35.76	-0.1534
Sb2068_A		-0.6905	ug/L	0.04971	7.199	-0.7077
Se1960_A		-3.280	ug/L	0.5917	18.04	1.436
Si2516_R		8,494	ug/L	12.84	0.1512	2,487
Sn1899_A		-1.049	ug/L	0.2295	21.88	1.754
Sr4215_R		116.7	ug/L	0.2937	0.2517	5,450
Ti3349_A		4.573	ug/L	0.05364	1.173	339.2
Tl1908_A		1.714	ug/L	0.1977	11.53	-1.608
V_2924_A		0.3718	ug/L	0.04494	12.09	-2.695
Zn2062_A		0.8274	ug/L	0.1167	14.10	4.435
Y_3600_R		9,219.5	Cts/S	78.467	0.85110	9,219.5
Y_2243_A		7,695.7	Cts/S	5.8474	0.075983	7,695.7
Y_3600_A		179,140	Cts/S	227.24	0.12685	179,140

CCV

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:57:23PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		520.9	ug/L	0.9419	0.1808	9,029
Al3961_R		13,060	ug/L	8.048	0.06162	7,206
As1891_A		516.6	ug/L	1.049	0.2030	171.8
B_2089_A		520.1	ug/L	1.628	0.3130	898.9
Ba4554_R		517.7	ug/L	0.1693	0.03271	21,110
Be3130_R		517.9	ug/L	2.782	0.5372	24,270
Ca3158_R		12,770	ug/L	18.12	0.1419	6,186
Cd2265_A		520.3	ug/L	0.2724	0.05235	8,769
Co2286_A	W	527.0	ug/L	0.4088	0.07757	1,985
Cr2677_A		521.8	ug/L	3.303	0.6330	6,059
Cu3273_A		520.1	ug/L	0.7771	0.1494	10,230
Fe2599_R		12,930	ug/L	31.57	0.2441	10,780
K_7664_R		12,820	ug/L	54.97	0.4287	5,442
Li6707_R		523.7	ug/L	1.669	0.3188	4,697
Mg2025_A		13,140	ug/L	3.876	0.02951	4,193
Mn2576_R		519.5	ug/L	1.328	0.2557	1,594
Mo2020_A		521.0	ug/L	1.911	0.3669	1,307
Na5895_R		13,160	ug/L	6.201	0.04711	24,170
Ni2316_A	W	527.9	ug/L	0.1822	0.03451	1,411
Pb2203_A	W	528.9	ug/L	1.080	0.2041	671.2
Sb2068_A		513.8	ug/L	1.660	0.3231	313.7
Se1960_A		513.9	ug/L	0.6219	0.1210	133.0
Si2516_R		12,820	ug/L	21.31	0.1662	3,651
Sn1899_A		525.7	ug/L	2.754	0.5239	312.4
Sr4215_R		517.7	ug/L	0.8446	0.1632	23,670
Ti3349_A		520.6	ug/L	1.708	0.3281	37,030
Tl1908_A	W	533.6	ug/L	1.677	0.3144	267.5
V_2924_A		513.7	ug/L	2.997	0.5833	6,751
Zn2062_A		520.8	ug/L	0.5658	0.1086	1,858
Y_3600_R		8,984.4	Cts/S	44.660	0.49708	8,984.4
Y_2243_A		7,468.6	Cts/S	10.119	0.13548	7,468.6
Y_3600_A		173,160	Cts/S	545.27	0.31489	173,160

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 3:01:32PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 3:01:32PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.1703	ug/L	0.2605	152.9	3.945
Al3961_R		1.610	ug/L	0.1121	6.965	-0.1974
As1891_A		1.153	ug/L	1.071	92.90	-2.698
B_2089_A		-0.01069	ug/L	0.05330	498.6	4.311
Ba4554_R		0.05129	ug/L	0.04709	91.82	18.33
Be3130_R		0.08079	ug/L	0.03134	38.80	2.868
Ca3158_R		-6.768	ug/L	1.570	23.20	-30.72
Cd2265_A		0.1019	ug/L	0.02333	22.89	-0.7630
Co2286_A		0.1808	ug/L	0.06923	38.29	1.254
Cr2677_A		-0.06218	ug/L	0.1364	219.3	0.2178
Cu3273_A		-0.4822	ug/L	0.2007	41.63	4.898
Fe2599_R		3.448	ug/L	0.9676	28.06	3.252
K_7664_R		-21.28	ug/L	31.60	148.5	49.04
Li6707_R		1.555	ug/L	1.091	70.15	13.47
Mg2025_A		2.281	ug/L	2.020	88.56	-5.413
Mn2576_R		0.2232	ug/L	0.2513	112.6	-0.8875
Mo2020_A		2.116	ug/L	0.5615	26.54	6.702
Na5895_R		37.35	ug/L	7.532	20.17	413.4
Ni2316_A		0.3063	ug/L	0.1866	60.93	-0.5641
Pb2203_A		-0.4981	ug/L	0.1306	26.23	-1.746
Sb2068_A		2.025	ug/L	0.3171	15.66	0.9429
Se1960_A		1.680	ug/L	1.382	82.27	2.694
Si2516_R		13.75	ug/L	6.424	46.72	17.20
Sn1899_A		-0.7177	ug/L	0.1168	16.27	1.929
Sr4215_R		0.1456	ug/L	0.09640	66.22	-25.57
Ti3349_A		0.1105	ug/L	0.09530	86.22	10.69
Tl1908_A		-0.06174	ug/L	0.2479	401.5	-2.494
V_2924_A		0.2049	ug/L	0.2090	102.0	-5.184
Zn2062_A		0.1594	ug/L	0.08563	53.72	1.960
Y_3600_R		9,018.7	Cts/S	49.703	0.55112	9,018.7
Y_2243_A		7,590.8	Cts/S	30.456	0.40123	7,590.8
Y_3600_A		178,270	Cts/S	406.30	0.22791	178,270

SQ5112-003

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 3:05:53PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.1705	ug/L	0.3663	214.8	9.887
Al3961_R		3,436	ug/L	6.067	0.1766	1,946
As1891_A		4.425	ug/L	0.6665	15.06	-1.845
B_2089_A		14.65	ug/L	0.05779	0.3945	29.53
Ba4554_R		23.04	ug/L	0.04465	0.1938	979.3
Be3130_R		0.1903	ug/L	0.08899	46.76	0.9988
Ca3158_R	W	34,170	ug/L	14.40	0.04214	17,030
Cd2265_A		0.05890	ug/L	0.01944	33.00	6.536
Co2286_A		3.610	ug/L	0.06338	1.755	16.04
Cr2677_A		14.51	ug/L	0.05542	0.3821	173.5
Cu3273_A		5.633	ug/L	0.1236	2.194	128.6
Fe2599_R		3,565	ug/L	6.433	0.1805	3,049
K_7664_R		5,308	ug/L	29.08	0.5480	2,346
Li6707_R		14.96	ug/L	1.166	7.797	137.1
Mg2025_A		9,327	ug/L	4.845	0.05195	3,050
Mn2576_R		86.64	ug/L	0.09659	0.1115	271.4
Mo2020_A		1.109	ug/L	0.1688	15.22	4.192
Na5895_R		8,594	ug/L	38.34	0.4461	16,310
Ni2316_A		11.33	ug/L	0.1620	1.430	29.55

KATAHDIN ANALYTICAL SERVICES, LLC
METALS ANALYSIS RUN INFORMATION SHEET

INSTR. ID: Teledyne M7600 (M) **ANALYST**: CD **ANALYSIS DATE**: 09/28/2023

FILE NAME: MQI28B

Reviewed By: 09/29/23

METHOD: **CVAA**

Analyte: Mercury

$SnCl_2$ Lot: MR3765

- ☑ 245.1
- ☑ 7470
- ☐ 7471
- ☑ DoD
- ☐ _____

STANDARDS USED:

Standard Name	Prep. Date	Expiration Date	Standard Conc.
Cal. Blank / ICB / CCB	09/28/2023	09/28/2023	0.00 ug/L
Standard #1 / PQL	09/28/2023	09/28/2023	0.20 ug/L
Standard #2	09/28/2023	09/28/2023	0.50 ug/L
Standard #3	09/28/2023	09/28/2023	1.00 ug/L
Standard #4 / CCV	09/28/2023	09/28/2023	5.00 ug/L
Standard #5	09/28/2023	09/28/2023	10.00 ug/L
ICV	09/28/2023	09/28/2023	6.00 ug/L

Additional Comments and Notes:

RPD Value(s):

09/29/23

Dilutions/Spiking:

INSTRUMENT RUNLOG

Instrument: TELEDYNE M7600

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
Calibration Blank	1	MQI28B	09/28/2023	13:50	CD
Standard #1 (0.2 ug/L)	1	MQI28B	09/28/2023	13:53	CD
Standard #2 (0.5ug/L)	1	MQI28B	09/28/2023	13:55	CD
Standard #3 (1.0 ug/L)	1	MQI28B	09/28/2023	13:58	CD
Standard #4 (5.0 ug/L)	1	MQI28B	09/28/2023	14:00	CD
Standard #5 (10.0 ug/L)	1	MQI28B	09/28/2023	14:03	CD
ICV	1	MQI28B	09/28/2023	14:06	CD
ICB	1	MQI28B	09/28/2023	14:09	CD
PQL	1	MQI28B	09/28/2023	14:11	CD
CCV	1	MQI28B	09/28/2023	14:14	CD
CCB	1	MQI28B	09/28/2023	14:16	CD
LCSWQI26HGW1	1	MQI28B	09/28/2023	14:19	CD
LCSWQI26HGW2	1	MQI28B	09/28/2023	14:22	CD
LC2WQI26HGW1	1	MQI28B	09/28/2023	14:24	CD
LC2WQI26HGW2	1	MQI28B	09/28/2023	14:27	CD
PBWQI26HGW1	1	MQI28B	09/28/2023	14:29	CD
PBWQI26HGW2	1	MQI28B	09/28/2023	14:32	CD
SQ4965-001	1	MQI28B	09/28/2023	14:34	CD
SQ4965-001N	1	MQI28B	09/28/2023	14:37	CD
SQ4965-001O	1	MQI28B	09/28/2023	14:39	CD
SQ4965-002	1	MQI28B	09/28/2023	14:42	CD
CCV	1	MQI28B	09/28/2023	14:44	CD
CCB	1	MQI28B	09/28/2023	14:47	CD
SQ4965-003	1	MQI28B	09/28/2023	14:49	CD
SQ4965-004	1	MQI28B	09/28/2023	14:52	CD
SQ5008-001	1	MQI28B	09/28/2023	14:55	CD
SQ5040-001	1	MQI28B	09/28/2023	14:57	CD
SQ5041-001	1	MQI28B	09/28/2023	15:00	CD
SQ5115-001	1	MQI28B	09/28/2023	15:02	CD
SQ5115-002	1	MQI28B	09/28/2023	15:05	CD
SQ5115-003	1	MQI28B	09/28/2023	15:07	CD
SQ5115-005	1	MQI28B	09/28/2023	15:10	CD
SQ5115-008	1	MQI28B	09/28/2023	15:12	CD
CCV	1	MQI28B	09/28/2023	15:15	CD
CCB	1	MQI28B	09/28/2023	15:17	CD
SQ5115-009	1	MQI28B	09/28/2023	15:20	CD
SQ5115-010	1	MQI28B	09/28/2023	15:22	CD
SQ5115-011	1	MQI28B	09/28/2023	15:25	CD
LCSWQI28HGW1	1	MQI28B	09/28/2023	15:28	CD
PBWQI28HGW1	1	MQI28B	09/28/2023	15:30	CD
PBT1813A	1	MQI28B	09/28/2023	15:33	CD
PBT1814A	1	MQI28B	09/28/2023	15:35	CD
SQ5080-002	1	MQI28B	09/28/2023	15:38	CD
SQ5080-002N	1	MQI28B	09/28/2023	15:40	CD

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
SQ5080-002O	1	MQI28B	09/28/2023	15:43	CD
CCV	1	MQI28B	09/28/2023	15:45	CD
CCB	1	MQI28B	09/28/2023	15:48	CD
SQ5080-003	1	MQI28B	09/28/2023	15:50	CD
SQ5108-001	1	MQI28B	09/28/2023	15:53	CD
SQ5109-001	1	MQI28B	09/28/2023	15:56	CD
SQ5109-001N	1	MQI28B	09/28/2023	15:58	CD
SQ5109-001O	1	MQI28B	09/28/2023	16:01	CD
SQ5102-001	1	MQI28B	09/28/2023	16:03	CD
SQ5102-002	1	MQI28B	09/28/2023	16:06	CD
SQ5102-003	1	MQI28B	09/28/2023	16:08	CD
SQ5102-004	1	MQI28B	09/28/2023	16:11	CD
SQ5102-005	1	MQI28B	09/28/2023	16:13	CD
CCV	1	MQI28B	09/28/2023	16:16	CD
CCB	1	MQI28B	09/28/2023	16:18	CD
SQ5102-006	1	MQI28B	09/28/2023	16:21	CD
CCV	1	MQI28B	09/28/2023	16:23	CD
CCB	1	MQI28B	09/28/2023	16:26	CD

Katahdin Analytical Services

Report Generated By Teledyne Leeman QuickTrace

Analyst: M-7600

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\MQI28B.wszf

Creation Date: 9/28/2023 1:47:52 PM

Comment:

Results

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual Flags	DF	% Recovery
Calibration Blank				STD	09/28/23 01:50:40 pm	0.000	-43	14.75		1.00	N/A
Replicates	-35.3	-42.6	-42.2	-50.7							
Standard #1 (0.2 ug/L)				STD	09/28/23 01:53:12 pm	0.200	1351	0.71	4.64%	1.00	N/A
Replicates	1364.0	1347.9	1350.3	1340.9							
Standard #2 (0.5ug/L)				STD	09/28/23 01:55:44 pm	0.500	3374	0.91	2.61%	1.00	N/A
Replicates	3384.2	3404.0	3375.2	3331.1							
Standard #3 (1.0 ug/L)				STD	09/28/23 01:58:17 pm	1.000	6552	0.73	-0.97%	1.00	N/A
Replicates	6489.5	6579.4	6597.9	6539.7							
Standard #4 (5.0 ug/L)				STD	09/28/23 02:00:49 pm	5.000	33245	0.52	-0.02%	1.00	N/A
Replicates	33204.8	33406.7	33346.2	33020.8							
Standard #5 (10.0 ug/L)				STD	09/28/23 02:03:22 pm	10.000	66550	0.77	0.01%	1.00	N/A
Replicates	66782.0	66948.7	66663.3	65804.4							

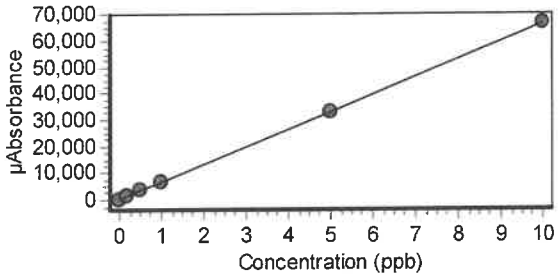
Calibration

Equation: Abs = 6658.813x + -42.738

R2: 0.99999 RSE: 3.12%

SEE: 72.0979

Flags:



ICV				ICV	09/28/23 02:06:48 pm	6.090	40477	0.78		1.00	101.42
Replicates	40581.5	40749.7	40554.3	40022.1							
ICB				ICB	09/28/23 02:09:19 pm	0.005	-8	49.44		1.00	N/A
Replicates	-1.8	14.2	-21.9	-21.3							
PQL				CRDL	09/28/23 02:11:52 pm	0.214	1379	1.74		1.00	106.76
Replicates	1395.8	1393.8	1384.0	1342.7							
CCV				CCV	09/28/23 02:14:24 pm	5.090	33837	1.04		1.00	101.76
Replicates	34107.3	34090.5	33796.7	33351.9							
CCB				CCB	09/28/23 02:16:56 pm	0.005	-10	29.55		1.00	N/A
Replicates	-18.6	-3.3	0.8	-17.3							
LCSWQI26HGW1				LCS	09/28/23 02:19:28 pm	5.010	33342	0.59		1.00	100.27
Replicates	33378.3	33514.1	33416.8	33057.5							

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags	DF	% Recovery
LCSWQI26HGW2					LCS	09/28/23 02:22:00 pm	5.000	33230	0.50			1.00	99.94
Replicates	33175.9	33394.7	33327.9	33021.1									
LC2WQI26HGW1					LCS	09/28/23 02:24:31 pm	5.150	34241	0.60			1.00	102.97
Replicates	34234.2	34438.6	34330.7	33958.8									
LC2WQI26HGW2					LCS	09/28/23 02:27:04 pm	5.150	34257	0.77			1.00	103.02
Replicates	34384.5	34458.6	34314.9	33869.5									
PBWQI26HGW1					PBK	09/28/23 02:29:36 pm	0.029	149	8.82			1.00	N/A
Replicates	138.9	164.5	131.1	163.2									
PBWQI26HGW2					PBK	09/28/23 02:32:08 pm	0.037	202	1.86			1.00	N/A
Replicates	207.8	203.0	197.2	199.7									
SQ4965-001					UNK	09/28/23 02:34:41 pm	0.035	190	3.80			1.00	N/A
Replicates	179.3	188.9	200.9	190.5									
SQ4965-001N					UNK	09/28/23 02:37:14 pm	1.640	10910	0.50			1.00	N/A
Replicates	10881.2	10933.9	10975.2	10851.5									
SQ4965-001O					UNK	09/28/23 02:39:47 pm	1.660	11029	0.46			1.00	N/A
Replicates	10976.5	11069.1	11077.5	10994.1									
SQ4965-002					UNK	09/28/23 02:42:20 pm	0.030	159	1.63			1.00	N/A
Replicates	162.3	157.9	161.1	155.0									
CCV					CCV	09/28/23 02:44:52 pm	4.990	33213	0.51			1.00	99.88
Replicates	33098.4	33356.0	33359.7	33037.1									
CCB					CCB	09/28/23 02:47:24 pm	0.009	18	15.24			1.00	N/A
Replicates	16.4	6.5	19.0	28.9									
SQ4965-003					UNK	09/28/23 02:49:57 pm	0.034	182	6.50			1.00	N/A
Replicates	196.2	175.6	190.8	164.1									
SQ4965-004					UNK	09/28/23 02:52:30 pm	0.035	190	3.54			1.00	N/A
Replicates	184.3	197.1	180.7	195.9									
SQ5008-001					UNK	09/28/23 02:55:02 pm	0.051	294	0.61			1.00	N/A
Replicates	291.9	296.7	293.6	293.1									
SQ5040-001					UNK	09/28/23 02:57:34 pm	0.025	126	3.95			1.00	N/A
Replicates	132.3	126.2	116.6	128.1									
SQ5041-001					UNK	09/28/23 03:00:08 pm	0.033	174	6.39			1.00	N/A
Replicates	171.3	156.5	189.7	177.9									
SQ5115-001					UNK	09/28/23 03:02:40 pm	0.034	183	2.23			1.00	N/A
Replicates	189.4	182.1	177.2	183.2									
SQ5115-002					UNK	09/28/23 03:05:12 pm	0.033	179	3.00			1.00	N/A
Replicates	180.0	180.9	185.0	169.4									
SQ5115-003					UNK	09/28/23 03:07:44 pm	0.033	177	9.55			1.00	N/A
Replicates	152.3	195.9	166.2	192.3									

Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual Flags	DF	% Recovery
SQ5115-005		UNK	09/28/23 03:10:17 pm	0.039	217	1.75		1.00	N/A
Replicates	217.9	210.9	221.1	219.8					
SQ5115-008		UNK	09/28/23 03:12:49 pm	0.044	254	2.38		1.00	N/A
Replicates	262.6	246.4	250.3	256.2					
CCV		CCV	09/28/23 03:15:22 pm	5.020	33366	0.57		1.00	100.34
Replicates	33364.9	33538.5	33458.0	33102.1					
CCB		CCB	09/28/23 03:17:54 pm	0.006	-5	5.56		1.00	N/A
Replicates	-3.9	-4.9	-2.5	-7.5					
SQ5115-009		UNK	09/28/23 03:20:27 pm	0.038	208	4.47		1.00	N/A
Replicates	206.0	208.6	223.1	195.9					
SQ5115-010		UNK	09/28/23 03:22:59 pm	0.037	203	3.74		1.00	N/A
Replicates	213.0	202.3	190.8	205.4					
SQ5115-011		UNK	09/28/23 03:25:32 pm	0.034	180	4.66		1.00	N/A
Replicates	187.8	190.2	172.5	169.9					
LCSWQI28HGW1		LCS	09/28/23 03:28:06 pm	5.110	34001	0.72		1.00	102.25
Replicates	34081.4	34176.4	34104.9	33640.2					
PBWQI28HGW1		PBK	09/28/23 03:30:37 pm	0.008	13	23.55		1.00	N/A
Replicates	2.3	24.7	25.1	1.7					
PBT1813A		UNK	09/28/23 03:33:10 pm	0.010	23	20.70		1.00	N/A
Replicates	11.4	25.1	14.0	41.3					
PBT1814A		UNK	09/28/23 03:35:41 pm	0.012	35	7.99		1.00	N/A
Replicates	41.9	38.7	29.9	29.7					
SQ5080-002		UNK	09/28/23 03:38:13 pm	0.014	50	9.53		1.00	N/A
Replicates	58.9	46.0	39.1	54.5					
SQ5080-002N		UNK	09/28/23 03:40:46 pm	1.860	12364	0.47		1.00	N/A
Replicates	12292.6	12411.8	12413.2	12339.4					
SQ5080-002O		UNK	09/28/23 03:43:18 pm	1.830	12156	0.45		1.00	N/A
Replicates	12087.5	12187.1	12210.6	12137.9					
CCV		CCV	09/28/23 03:45:51 pm	5.020	33354	0.62		1.00	100.31
Replicates	33350.9	33549.4	33446.8	33067.3					
CCB		CCB	09/28/23 03:48:22 pm	0.003	-26	35.73		1.00	N/A
Replicates	-24.8	-33.7	-19.1	-26.1					
SQ5080-003		UNK	09/28/23 03:50:55 pm	0.014	52	5.07		1.00	N/A
Replicates	47.6	48.4	53.1	58.0					
SQ5109-001		UNK	09/28/23 03:53:27 pm	0.012	39	10.02		1.00	N/A
Replicates	32.1	48.1	31.6	42.9					
SQ5109-001		UNK	09/28/23 03:56:00 pm	0.012	37	16.61		1.00	N/A
Replicates	27.7	43.3	24.6	52.7					

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual Flags	DF	% Recovery
SQ5102-001N	UNK	09/28/23 03:58:33 pm	1.920	12754	0.46		1.00	N/A
Replicates	12693.1	12781.8	12822.4	12717.4				
SQ5102-001O	UNK	09/28/23 04:01:06 pm	1.880	12469	0.44		1.00	N/A
Replicates	12397.3	12476.9	12530.5	12472.8				
SQ5102-001	UNK	09/28/23 04:03:39 pm	0.009	15	31.08		1.00	N/A
Replicates	15.3	-8.4	19.6	35.3				
SQ5102-002	UNK	09/28/23 04:06:11 pm	0.013	42	10.93		1.00	N/A
Replicates	48.4	31.3	37.7	51.2				
SQ5102-003	UNK	09/28/23 04:08:43 pm	0.014	48	11.29		1.00	N/A
Replicates	54.8	36.2	58.6	43.7				
SQ5102-004	UNK	09/28/23 04:11:15 pm	0.012	37	7.90		1.00	N/A
Replicates	36.8	27.7	41.9	39.8				
SQ5102-005	UNK	09/28/23 04:13:47 pm	0.012	35	12.95		1.00	N/A
Replicates	33.4	34.0	23.7	48.1				
CCV	CCV	09/28/23 04:16:19 pm	4.970	33061	0.56		1.00	99.43
Replicates	32885.4	33215.6	33227.3	32917.2				
CCB	CCB	09/28/23 04:18:51 pm	0.003	-20	31.32		1.00	N/A
Replicates	-20.0	-11.7	-19.3	-29.1				
SQ5102-006	UNK	09/28/23 04:21:23 pm	0.014	49	9.78		1.00	N/A
Replicates	42.8	41.7	50.3	61.2				
CCV	CCV	09/28/23 04:23:55 pm	4.960	32960	0.49		1.00	99.13
Replicates	32874.5	33106.7	33084.4	32776.1				
CCB	CCB	09/28/23 04:26:27 pm	0.002	-32	159.49		1.00	N/A
Replicates	-15.0	-28.3	-29.6	-55.6				

Logbooks and Supporting Documents

Katahdin Analytical Services, Inc. | **Metals Preparation Benchsheet**

Reagents and Consumables Information: | **Method:** 7470

HNO3: MSR300 H2SO4: MSR305 Digestion Vessles: MP8520

KMNO4: MR37162 K2S2O8: MR36079 NH2OH-HCl: MR3752

Standards/Spiking Information:

1ppm A : MW21726

Pipet 1ppm B : MW21727

M33 LCSW = 125uL of 1ppm A to 25mL

D Spike(S/P) = 25uL of 1ppm A to 25mL

M35 ICV = 600uL of 1ppm B to 100 mL

D S10.0 = 1000uL of 1ppm A to 100 mL

Heat Source ID : D

Start Time: 12:27 /Temp. 95 °C

End Time: 14:27 /Temp. 98 °C

Thermometer ID/Pos: AIC44 / 4,4

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Bottle	pH <2
LCSWQI28HGW1	QI28HGW1	0.025	L	0.025	L	AQ	HG	CD	09/28/2023	VA	✓
PBT1813A	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
PBT1814A	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
PBWQI28HGW1	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5080-002	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5080-002N	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5080-002O	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5080-003	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5102-001	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5102-002	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5102-003	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5102-004	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5102-005	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5102-006	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5108-001	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5109-001	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5109-001N	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5109-001O	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		

EC 092923

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EC 092923
KATAHDIN ANALYTICAL
METALS SECTION

Katahdin Analytical Services, Inc.

Reagents and Consumables Information:

Metals Preparation Benchsheet

Method: 3010

HNO3: MB2327 HCL: MB2389 Digestion Vessels: MCD0030000147

1:1 HNO3: MB3758 1:1 HCL: MB3764

Pipet **LCS/Spiking Information:**

M35 CLPP-SPK-1 (ID/Vol): MS2479 / 0.05 mL

M35 CLPP-SPK-INT1 (ID/Vol): MW21719 / 0.5 mL

M35 CLPP-SPK-INT2 (ID/Vol): MW2120 / 0.5 mL

- - Spike (ID/Vol): - / - mL

Heat Source ID : B

Start Time: 1003 /Temp. 92 °C

End Time: 1555 /Temp. 90 °C

Thermometer ID/Pos: IR1C44 / 2,7

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Bottle	pH <2
LCSWQI28ICW2	QI28ICW2	0.05	L	0.05	L	AQ	IC	CD	09/28/2023	-	✓
PBT1813A	QI28ICW2	0.01	L		L	AQ	IC	CD	09/28/2023	-	
PBT1814A	QI28ICW2	〃	L		L	AQ	IC	CD	09/28/2023	-	
PBWQI28ICW2	QI28ICW2	0.05	L		L	AQ	IC	CD	09/28/2023	-	
SQ5041-001	QI28ICW2	〃	L		L	AQ	IC	CD	09/28/2023	D	
SQ5080-002	QI28ICW2	0.01	L		L	AQ	IC	CD	09/28/2023	V/A	
SQ5080-002N	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5080-002O	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5080-003	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5102-001	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5102-002	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5102-003	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5102-004	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5102-005	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5102-006	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5108-001	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5109-001	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5109-001N	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5109-001O	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5170-001	QI28ICW2	0.05	L		L	AQ	IC	CD	09/28/2023	D	
SQ5170-002	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5170-003	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5170-004	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		

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KATAHDIN ANALYTICAL METALS SECTION

KATAHDIN ANALYTICAL SERVICES, LLC. Non-Volatile TCLP/SPLP Extraction Log

I. EXTRACTION CONDITIONS

Extraction Method:	SW846 1311 (TCLP) ☑		Balance ID: BAL-~~00~~ 22 CD9-27	Rotary Extractor ID: 2		
	SW846 1312 (SPLP) ☐		pH Probe ID: pH 5	pH Meter ID: Fisher AB315 S/N A11928		
Solid pH Determination:	Date: 9-25-23	Analyst: MB/TT	Room Thermometer ID: DIG 113	(Room Temp Criteria. 23(±2)°C)		
Rotary Extraction Started:	Date: 9-26-23	Time: 16:18	Analyst: CD	RoomTemp(°C):	Start: 21.0	End: 23
Rotary Extraction Completed:	Date: 9-27-23	Time: 8:54	Analyst: CD	Room Temp (°C):	Min. 21	Max. 23
Extraction Filtered:	Date: 9-27-23	Time: 12:00	Analyst: CD	Filter Lot #: 115066-3003-T / 0000191992		
Elapsed Extraction Time (HH:MM): 16:36		5% HNO_3 ID (used to wash filters): MR3749		HNO_3 Lot # (used to preserve extracts): MOR327		
Fluid 1 pH (Day of use): 4.94		Fluid 1 Expiration Date: 9-25-24		Rotary Extractor Rotation Rate Checked? YES		
Fluid 2 pH (Day of use): 2.91		Fluid 2 Expiration Date: 9-25-24		Criteria. 30 ± 2 RPM		

II. EXTRACTION SETUP TCLP Fluid pH: #1 - 4.93 ± 0.05 #2 - 2.88 ± 0.05 SPLP Fluid pH: #1 - 4.20 ± 0.05 #2 - 5.00 ± 0.05

Katahdin Sample No. (include bottle ID)	Matrix	Check One: 100% Wet Solids- waste will yield no liquid upon filtration	Check One: < 100% Wet Solids (Perform Solids Determination below)	SPLP FLUID # (1 for east and 2 for west of Mississippi River)	TCLP pH Determination and Fluid Selection (date & init. above): Initial pH of solid phase: (if <5, use Fluid #1; if >5 add 3.5 mL of 1 N HCl)	TCLP pH Determination and Fluid Selection (date & init. above): pH after 1 N HCL addition (if <5, use Fluid #1; if >5, use Fluid #2	Extraction Setup: Volume of Extraction Fluid (mL)	Extraction Setup: Fluid # used	Extraction Setup: Associated Extraction Blank ID:	Extraction Setup: Weight of Waste (g)	pH of extract after extraction:	Extract to be analyzed for: Metals (M), SVOA (S), PEST (P), HERB (H), Cyanide (C)	Extraction Bottle ID (if applicable)
SQ5102-1A	SL	✓	—	—	6.66	1.98	2000	1	PBT1813A	100.01	4.91	M	N/A
SQ5102-2A	↓	↓	—	↓	6.60	2.03	↓	↓	↓	100.31	4.92	↓	↓
SQ5102-3A	↓	↓	—	↓	6.68	1.80	↓	↓	↓	100.12	4.99 ~~8.00~~ CD9	21.25	↓
SQ5102-4A	↓	↓	—	↓	6.66	2.03	↓	↓	↓	100.29	4.96	↓	↓
SQ5102-5A	↓	↓	—	↓	6.49	1.96	↓	↓	101.17	100.33	4.94	↓	↓ 9/25/23
SQ5102-6A	↓	↓	—	↓	6.36	1.97	↓	↓	100.33	101.17	4.92	↓	↓
SQ5080-2A	↓	↓	—	↓	11.64	11.06	↓	2	PBT1814A	100.30	7.16	↓	↓
SQ5080-3A	↓	↓	—	↓	11.59	10.49	↓	2	↓	100.40	6.00	↓	↓
SQ5109-1B	SL	✓	—	—	8.13	1.38	↓	1	PBT1813A	100.58	4.96	M,S,P,H	56
PBT1813A	AQ	-	-	-	-	-	2000	1	↓	-	4.90	↓	51

QAAA232 - 000832

III. SOLIDS DETERMINATION

Date AQ Filtered:			A	B	C	D	E	F	G	H	I	J	K
Katahdin Sample No. (include bottle ID)	AQ or SL	Time Filt'd	Weight of filter (g)	Weight of filtrate vessel (g)	Weight of weigh boat + waste (g)	Weight of weigh boat + residue (g)	Weight of waste (C-D) (g)	Weight of filtrate vessel + filtrate (g)	Weight of liquid phase (F-B) (g)	Percent wet solids [(E-G)/E x 100%]	Weight of filter + dry solids (g)	Weight of dry solids (I-A) (g)	Percent dry solids (J/E x 100%)

IV. PHASE SEPARATION

Katahdin Sample No. (include bottle ID)	Matrix	Percent dry solids [1] <0.5%	Percent dry solids [1] >0.5%	L Weight of filtrate vessel (g)	M Weight of weigh boat + waste (g)	N Weight of weigh boat + residue (g)	O Weight of waste (M-N) (g)	P Weight of filtrate vessel + filtrate (g)	Q Weight of liquid phase (P-L) (g)	R Volume of liquid phase (mL) [2]	S Weight of wet solids (O - Q) (g)
									CD9-26-23		

1) If dry solids is <0.5%, filter sufficient volume of waste to support all required analyses. If dry solids >0.5% and wet solids <100%, perform phase separation (steps L – S above).

2) If miscible, proportionately combine pre-extraction filtrate with rotary extract. If not miscible, analyze aliquots separately and mathematically combine results.

V. COMMENTS:

Reviewed By_____ Date_____

CONVENTIONAL AND PHYSICAL ANALYTICAL DATA

QC Summary Section

Katahdin
ANALYTICAL SERVICES

Quality Control Report

Blank Sample Summary Report

Cyanide, Reactive

QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	Units	LOQ	MDL	LOD
WG343425	SW846 7.3.3	02-OCT-23	28-SEP-23	U10.	mg/Kg	20.	5.0	10.

Ignitability

QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	Units	LOQ	MDL	LOD
WG343570	SW846 1010A	05-OCT-23	N/A	>71.	Deg. C	71.	71.	N/A

Sulfide, Reactive

QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	Units	LOQ	MDL	LOD
WG343276	SW846 7.3.4	28-SEP-23	28-SEP-23	U40	mg/Kg	50.	20.	40

Quality Control Report

Laboratory Control Sample Summary Report

Cyanide, Reactive

Laboratory Sample ID	Sample Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amount	Result	Recovery (%)	Acceptance Range	RPD
WG343425-2	LCS	WG343425	02-OCT-23	28-SEP-23	mg/Kg	20	U 30.	46	0-100	
WG343425-3	LCSD	WG343425	02-OCT-23	28-SEP-23	mg/Kg	20	U 20.	32	0-100	36*

Ignitability

Laboratory Sample ID	Sample Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amount	Result	Recovery (%)	Acceptance Range	RPD
WG343570-2	LCS	WG343570	05-OCT-23	N/A	Deg. C	27	25.	92	80-120	
WG343570-3	LCSD	WG343570	05-OCT-23	N/A	Deg. C	27	25.	92	80-120	0

Sulfide, Reactive

Laboratory Sample ID	Sample Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amount	Result	Recovery (%)	Acceptance Range	RPD
WG343276-2	LCS	WG343276	28-SEP-23	28-SEP-23	mg/Kg	776.98	520	67	30-120	
WG343276-3	LCSD	WG343276	28-SEP-23	28-SEP-23	mg/Kg	776.98	480	62	30-120	7

pH(Soil)

Laboratory Sample ID	Sample Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amount	Result	Recovery (%)	Acceptance Range	RPD
WG343679-1	LCS	WG343679	09-OCT-23	09-OCT-23	pH	7	7.0	100	90-110	
WG343679-2	LCSD	WG343679	09-OCT-23	09-OCT-23	pH	7	7.0	100	90-110	0

Sample Data Section

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client. Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 Please refer to cover letter or narrative for further information.

H_ Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit	NOD	No Odor Detected
NFL	No Free Liquid Present	FLP	Free Liquid Present	TON	Threshold Odor Number

D-1 As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

D-4 The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

D-5 The seed control factor did not meet the method criteria of greater than 2.0 mg/L of dissolved oxygen (DO) uptake over the five day period of incubation. The dilution closest to meeting the criteria was used to estimate the seed control factor.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Lab Sample ID: SQ5109-1
Client ID: DOW-SWC-01
SDG: SQ5109
Report Date: 17-OCT-23

Matrix	Date Sampled	Date Received
SL	21-SEP-23 09:30	21-SEP-23

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Cyanide, Reactive	U10. mg/Kg	20.	5.0	10.	SW846 7.3.3	WG343425	02-OCT-23 15:40	SW846 7.3.4	28-SEP-23	
Ignitability	>71. Deg. C	71.	71.	N/A	SW846 1010A MOD	WG343570	05-OCT-23 11:46	N/A	N/A	
Sulfide, Reactive	U40 mg/Kg	50	20	40	SW846 7.3.4	WG343276	28-SEP-23 15:19	SW846 7.3.4	28-SEP-23	
pH(Soil)	7.9 pH	0.10	0.10	0.10	SW846 9045D	WG343679	09-OCT-23 12:41	SW846 9045D	09-OCT-23	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
http://www.katahdinlab.com

Raw Data Section

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 12:05 pm
Batch: WG343273 Run ID 1: R624154 Run ID 2: NONE

Parameter: Sulfide, Reactive
Prep Date: 28-SEP-23

Date Analyzed: 28-SEP-23
Prep Method: SW846 7.3.4

Analyst Initials: JRS
Prep Chemist: JRS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5208-1	SAMP	SW846 7.3.4	9.8950g	190.00mL	1	-.31	U50. mg/Kg	NA	50	16.39	50.		
WG343273-1	MBLANK	SW846 7.3.4	10.000g	190.00mL	1	.01	U25. mg/Kg	NA	50	16.39	50.		
WG343273-2	LCS	SW846 7.3.4	10.000g	190.00mL	1	4.06	540 mg/Kg	NA	50	16.39	50.		70
WG343273-3	LCSD	SW846 7.3.4	10.000g	190.00mL	1	4.18	560 mg/Kg	NA	50	16.39	50.	3	72

Comments:

WG343273-1	SQ5208-1
WG343273-2	SQ5208-1
WG343273-3	SQ5208-1

Entered by: JRS Date: 10/3/23 Accepted by: SS Date: 10/3/23

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 12:05 pm
Batch: WG343274 Run ID 1: R624155 Run ID 2: NONE

Parameter: Sulfide, Reactive
Prep Date: 28-SEP-23

Date Analyzed: 28-SEP-23
Prep Method: SW846 7.3.4

Analyst Initials: JRS
Prep Chemist: JRS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5108-1	SAMP	SW846 7.3.4	10.028g	190.00mL	1	0	U40 mg/Kg	NA	50	20.	50.		
WG343274-1	MBLANK	SW846 7.3.4	10.000g	190.00mL	1	.01	U40 mg/Kg	NA	50	20.	50.		
WG343274-2	LCS	SW846 7.3.4	10.000g	190.00mL	1	4.06	540 mg/Kg	NA	50	20.	50.		70
WG343274-3	LCSD	SW846 7.3.4	10.000g	190.00mL	1	4.18	560 mg/Kg	NA	50	20.	50.	3	72

Comments:

WG343274-1	SQ5108-1
WG343274-2	SQ5108-1
WG343274-3	SQ5108-1

Entered by: JRS Date: 10/3/23 Accepted by: SS Date: ~~10/3/23~~ 10/3/23 10/3/23 SS

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 12:06 pm
Batch: WG343275 Run ID 1: R624156 Run ID 2: NONE

Parameter: Sulfide, Reactive
Prep Date: 28-SEP-23

Date Analyzed: 28-SEP-23
Prep Method: SW846 7.3.4

Analyst Initials: JRS
Prep Chemist: JRS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5209-1	SAMP	SW846 7.3.4	10.578g	190.00mL	.94	.33	J42. mg/Kg	84.	50	16.39	50		
WG343275-1	MBLANK	SW846 7.3.4	10.000g	190.00mL	1	.02	U25. mg/Kg	NA	50	16.39	50.		
WG343275-2	LCS	SW846 7.3.4	10.000g	190.00mL	1	3.87	520 mg/Kg	NA	50	16.39	50.		67
WG343275-3	LCSD	SW846 7.3.4	10.000g	190.00mL	1	3.6	480 mg/Kg	NA	50	16.39	50.	7	62

Comments:

WG343275-1	SQ5209-1
WG343275-2	SQ5209-1
WG343275-3	SQ5209-1

Entered by: JRS Date: 10/3/23 Accepted by: SS Date: 10/3/23

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 12:06 pm
Batch: WG343276 Run ID 1: R624157 Run ID 2: NONE

Parameter: Sulfide, Reactive

Prep Date: 28-SEP-23

Date Analyzed: 28-SEP-23

Prep Method: SW846 7.3.4

Analyst Initials: JRS

Prep Chemist: JRS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5109-1	SAMP	SW846 7.3.4	10.628g	190.00mL	.94	.05	U40 mg/Kg	NA	50	20	50		
WG343276-1	MBLANK	SW846 7.3.4	10.000g	190.00mL	1	.02	U40 mg/Kg	NA	50	20.	50.		
WG343276-2	LCS	SW846 7.3.4	10.000g	190.00mL	1	3.87	520 mg/Kg	NA	50	20.	50.		67
WG343276-3	LCSD	SW846 7.3.4	10.000g	190.00mL	1	3.6	480 mg/Kg	NA	50	20.	50.	7	62

Comments:

WG343276-1	SQ5109-1
WG343276-2	SQ5109-1
WG343276-3	SQ5109-1

Entered by: JRS Date: 10/3/23 Accepted by: SS Date: 10/3/23

REACTIVE SULFIDES
TITRIMETRIC

EPA: 7.3.4.2/9030
PQL = 50 mg/kg

DATE:	9/28/2023
ANALYST:	JRS

STANDARDIZATION OF IODINE SOLUTION

VOL (mL) I_2	VOL (mL) $Na_2S_2O_3$
10.00	6.600
10.00	6.580
10.00	6.610
Mean $Na_2S_2O_3$=	**6.60**

CALC I_2 N =	**0.02474**

STANDARDIZATION OF SODIUM SULFIDE STANDARD

VOL (mL) I_2	VOL (mL) NA_2S	VOL (mL) $Na_2S_2O_3$
10.00	2.00	4.180
10.00	2.00	4.150
10.00	2.00	4.130
Mean Vol $Na_2S_2O_3$=		**4.15**

CALC NA_2S (mg H_2S/L):	**776.98**

$Na_2S_2O_3$ Normality:	**0.0375**

Sample ID	Sample Wt. (g)	Trap Vol. (mL)	Analysis Vol. (mL)	Volume I_2 Added (mL)	Volume $Na_2S_2O_3$ Added (mL)	Extraction Time (sec)	Calc. Sulfide (as S) in Analysis Aliquot (mg)	Releasable H_2S in Smpl. (mg/kg)	Recovery (%)	Duplicate RPD (%)
BLK	10.000	190.00	150.00	10.00	6.580	1800.00	0.01	1.35		
LCS	10.000	190.00	150.00	25.00	9.740	1800.00	4.06	546.48	70.3	
LCSD	10.000	190.00	150.00	25.00	9.540	1800.00	4.18	562.66	72	
SQ5208-1	9.895	190.00	150.00	10.00	7.120	1800.00	-0.31	-42.81		
SQ5108-1	10.028	190.00	150.00	10.00	6.600	1800.00	0.00	-0.27	~~5.5~~	
BLK	10.000	190.00	150.00	10.00	6.560	1800.00	0.02	2.97		
LCS	10.000	190.00	150.00	25.00	10.060	1800.00	3.87	520.58	67	
LCSD	10.000	190.00	150.00	25.00	10.500	1800.00	3.60	484.96	67	
SQ5209-1	10.578	190.00	150.00	10.00	6.040	1800.00	0.33	42.59		
SQ5109-1	10.628	190.00	150.00	10.00	6.520	~~180.00~~ 1800.00	0.05	5.84		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
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							0.00	#DIV/0!		

SS 10/3/23

SS 10/3/23

KATAHDIN ANALYTICAL
REACTIVE SULFIDE

METHOD: SW846 9030 / 7.3.4.2	PQL: 27 mg/kg
REAGENT LOT #:	
IODINE STANDARD: W22108	STS SOLUTION-0.0375N: SWL5080
Na2S SOLUTION: W21995	NaOH-0.25N: W22187 / W22188
HCl-6N: W22051	H2SO4-0.01N: ~~S~~ W22186 / W22185
Total CN (1000ug/ml) SWL5091	
Pipette ID: W3 W21	Bal. ID: Bal 20
LCS PREP: 10mL NaS + 0.2mL CN-	
MS PREP: ⊥	

JRS 9/28/23

STANDARDIZATION OF I2		CALC OF I2 N	STANDARDIZATION OF Na2S			CALC OF Na2S mg/ml
VOL(ml) I2	VOL(ml) Na2S2O3		VOL(ml) I2	VOL(ml) Na2S2O3	VOL(ml) Na2S	
10	6.60		10	4.18	2	
1	6.58		⊥	4.15	⊥	
⊥	6.61		⊥	4.13	⊥	
	X:			X:		

	Prep Start Time	Prep End Time	Sample ID	Sample Wt. (g)	NaOH Trap Vol.(ml)	Analysis Vol.(ml)	ml I2 Soln Added	ml STS to Endpoint	Time of Analysis	
AQ	14:44	15:14	Blank	-	190	150	10	6.58	15:19	SS 10/3/23
	⊥	⊥	LCS	-	⊥	⊥	25	9.74	⊥	
			LCSD	-			⊥	9.54		
			SQ5208-1	9.895			10	7.12		
			SQ5108-1	10.028			⊥	6.60		LOD
SL			Blank	10.032			10	6.56		
			LCS	10.022			25	10.06		
			LCSD	10.014			⊥	10.50		
			SQ5209-1	10.578			10	6.04		
	⊥	⊥	SQ5109-1	10.628	⊥	⊥	⊥	6.52	⊥	LOD
								JRS	9/28/23	

NOTES: Sand ID: RE01009 AQ WG343273 - R624154, WG343274 - R624155 SL WG343275 - R624156, WG343276 - R624157

ANALYST: JRS	DATE: 9/28/23
CHECKED BY: SS	DATE: 10/3/23

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 01:25 pm
Batch: WG343419 Run ID 1: R624128 Run ID 2: NONE

Parameter: Total Cyanide
Prep Date: 02-OCT-23

Date Analyzed: 02-OCT-23
Prep Method: EPA 335.4

Analyst Initials: SS
Prep Chemist: SS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5140-3	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	2.99839	U10. ug/L	NA	10	4.0	10.		
SQ5200-1	SAMP	EPA 335.4	0.30000mL	6.0000mL	20	.98351	U200 ug/L	NA	10	79.	200		
SQ5226-2	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	.08239	U10. ug/L	NA	10	4.0	10.		
SQ5291-1	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	3.81792	U10. ug/L	NA	10	4.0	10.		
WG343419-1	MBLANK	EPA 335.4	6.0000mL	6.0000mL	1	1.56339	U8.0 ug/L	NA	10	4.0	10.		
WG343419-2	LCS	EPA 335.4	6.0000mL	6.0000mL	1	186.017	190 ug/L	NA	10	4.0	10.		93
WG343419-3	LCSD	EPA 335.4	6.0000mL	6.0000mL	1	186.97197	190 ug/L	NA	10	4.0	10.	0	93

Comments:

WG343419-1	SQ5140-3
WG343419-2	SQ5140-3
WG343419-3	SQ5140-3

Entered by: SS Date: 10/3/23 Accepted by: RAD Date: 10/3/23 ✓

Katahdin Analytical Services SQ5109 Page 658 of 681

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 01:25 pm
Batch: WG343420 Run ID 1: R524129 Run ID 2: NONE

Parameter: Total Cyanide
Prep Date: 02-OCT-23

Date Analyzed: 02-OCT-23
Prep Method: EPA 335.4

Analyst Initials: SS
Prep Chemist: SS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5115-10	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	1.1983	U5.0 ug/L	NA	5	4.0	5.0		
SQ5115-11	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	1.81525	U5.0 ug/L	NA	5	4.0	5.0		
SQ5141-2	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	3.02714	U5.0 ug/L	NA	5	4.0	5.0		
SQ5142-3	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	1.57458	U5.0 ug/L	NA	5	4.0	5.0		
SQ5159-2	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	3.20481	U5.0 ug/L	NA	5	4.0	5.0		
SQ5221-1	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	2.35709	U5.0 ug/L	NA	5	4.0	5.0		
SQ5221-2	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	1.9835	U5.0 ug/L	NA	5	4.0	5.0		
SQ5221-3	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	16.76912	17. ug/L	NA	5	4.0	5.0		
SQ5228-2	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	-.06572	U5.0 ug/L	NA	5	4.0	5.0		
SQ5229-2	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	22.22556	22. ug/L	NA	5	4.0	5.0		
SQ5230-2	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	2.14171	U5.0 ug/L	NA	5	4.0	5.0		
WG343420-1	MBLANK	EPA 335.4	6.0000mL	6.0000mL	1	1.56339	U5.0 ug/L	NA	5	4.0	5.0		
WG343420-2	LCS	EPA 335.4	6.0000mL	6.0000mL	1	186.017	190 ug/L	NA	5	4.0	5.0		93
WG343420-3	LCSD	EPA 335.4	6.0000mL	6.0000mL	1	186.97197	190 ug/L	NA	5	4.0	5.0	0	93

Comments:

WG343420-1	SQ5115-10
WG343420-2	SQ5115-10
WG343420-3	SQ5115-10

Entered by: SS Date: 10/3/23 Accepted by: RAD Date: 10/3/23 ✓

Katahdin Analytical Services SQ5109 Page 659 of 681

WET CHEMISTRY BATCH REPORT
Oct 06 2023, 02:28 pm
Batch: WG343421 Run ID 1: R624130 Run ID 2: NONE

Parameter: Total Cyanide
Prep Date: 02-OCT-23

Date Analyzed: 02-OCT-23
Prep Method: SW846 M9012B

Analyst Initials: SS
Prep Chemist: SS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5280-1	SAMP	SW846 M9012B	0.11300g	6.0000mL	5.5	.0149	0.99 mg/Kgdrywt	80.	.12	0.20	0.66		
WG343421-1	MBLANK	SW846 M9012B	0.50000g	6.0000mL	1	.00058	U0.096 mg/Kgdrywt	NA	.12	0.036	0.12		
WG343421-2	LCS	SW846 M9012B	0.50000g	6.0000mL	1	.18547	2.2 mg/Kgdrywt	NA	.12	0.036	0.12		93
WG343421-3	LCSD	SW846 M9012B	0.50000g	6.0000mL	1	.20869	2.5 mg/Kgdrywt	NA	.12	0.036	0.12	12	104
WG343421-4	DUP	SW846 M9012B	0.14500g	6.0000mL	4.3	.0254	1.3 mg/Kgdrywt	NA	.12	0.15	0.52	28	
WG343421-5	MS	SW846 M9012B	0.15800g	6.0000mL	4	.11731	5.6 mg/Kgdrywt	NA	.12	0.14	0.48		96

Comments:

WG343421-1	SQ5280-1
WG343421-2	SQ5280-1
WG343421-3	SQ5280-1
WG343421-4	SQ5280-1
WG343421-5	SQ5280-1

Entered by: SS Date: 10/6/23 Accepted by: RAD Date: 10/6/23 ✓

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WET CHEMISTRY BATCH REPORT
Oct 03 2023, 01:26 pm
Batch: WG343422 Run ID 1: R624131 Run ID 2: NONE

Parameter: Cyanide, Reactive
Prep Date: 28-SEP-23

Date Analyzed: 02-OCT-23
Prep Method: SW846 7.3.4

Analyst Initials: SS
Prep Chemist: JRS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5208-1	SAMP	SW846 7.3.3	9.8950g	190.00mL	1.011	1.12142	U20. mg/Kg	NA	20	0.16	20.		
WG343422-1	MBLANK	SW846 7.3.3	10.000g	190.00mL	1	1.03415	U10. mg/Kg	NA	20	0.16	20.		
WG343422-2	LCS	SW846 7.3.3	10.000g	190.00mL	4	782.25037	J15. mg/Kg	NA	20	0.62	80.		74
WG343422-3	LCSD	SW846 7.3.3	10.000g	190.00mL	3	509.12173	J9.7 mg/Kg	NA	20	0.47	60.	42	48

Comments:

WG343422-1	SQ5208-1
WG343422-2	SQ5208-1
WG343422-3	SQ5208-1

Entered by: SS Date: 10/3/23 Accepted by: RAD Date: 10/3/23 ✓

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 01:26 pm
Batch: WG343423 Run ID 1: R624132 Run ID 2: NONE

Parameter: Cyanide, Reactive
Prep Date: 28-SEP-23

Date Analyzed: 02-OCT-23
Prep Method: SW846 7.3.4

Analyst Initials: SS
Prep Chemist: JRS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5209-1	SAMP	SW846 7.3.3	10.578g	190.00mL	.945	1.27478	U20. mg/Kg	84.	20	0.16	20.		
WG343423-1	MBLANK	SW846 7.3.3	10.000g	190.00mL	1	.84016	U10. mg/Kg	NA	20	0.16	20.		
WG343423-2	LCS	SW846 7.3.3	10.000g	190.00mL	3	487.57776	J9.3 mg/Kg	NA	20	0.47	60.		46
WG343423-3	LCSD	SW846 7.3.3	10.000g	190.00mL	2	339.72699	J6.4 mg/Kg	NA	20	0.31	40.	36	32

Comments:

WG343423-1 SQ5209-1
WG343423-2 SQ5209-1
WG343423-3 SQ5209-1

Entered by: SS Date: 10/3/23 Accepted by: RAT Date: 10/3/23 ✓

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 01:26 pm
Batch: WG343424 Run ID 1: R624133 Run ID 2: NONE

Parameter: Cyanide, Reactive
Prep Date: 28-SEP-23

Date Analyzed: 02-OCT-23
Prep Method: SW846 7.3.4

Analyst Initials: SS
Prep Chemist: JRS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5108-1	SAMP	SW846 7.3.3	10.028g	190.00mL	.997	.84174	U10. mg/Kg	NA	20	5.0	20.		
WG343424-1	MBLANK	SW846 7.3.3	10.000g	190.00mL	1	1.03415	U10. mg/Kg	NA	20	5.0	20.		
WG343424-2	LCS	SW846 7.3.3	10.000g	190.00mL	4	782.25037	U40. mg/Kg	NA	20	20.	80.		74
WG343424-3	LCSD	SW846 7.3.3	10.000g	190.00mL	3	509.12173	U30. mg/Kg	NA	20	15.	60.	42	48

Comments:

WG343424-1	SQ5108-1
WG343424-2	SQ5108-1
WG343424-3	SQ5108-1

Entered by: SS Date: 10/3/23 Accepted by: RAD Date: 10/3/23 ✓

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WET CHEMISTRY BATCH REPORT
Oct 03 2023, 01:26 pm
Batch: WG343425 Run ID 1: R624134 Run ID 2: NONE

Parameter: Cyanide, Reactive
Prep Date: 28-SEP-23

Date Analyzed: 02-OCT-23
Prep Method: SW846 7.3.4

Analyst Initials: SS
Prep Chemist: SS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5109-1	SAMP	SW846 7.3.3	10.628g	190.00mL	.941	1.36583	U10. mg/Kg	NA	20	5.0	20.		
WG343425-1	MBLANK	SW846 7.3.3	10.000g	190.00mL	1	.84016	U10. mg/Kg	NA	20	5.0	20.		
WG343425-2	LCS	SW846 7.3.3	10.000g	190.00mL	3	487.57776	U30. mg/Kg	NA	20	15.	60.		46
WG343425-3	LCSD	SW846 7.3.3	10.000g	190.00mL	2	339.72699	U20. mg/Kg	NA	20	10.	40.	36	32

Comments:

WG343425-1 SQ5109-1
WG343425-2 SQ5109-1
WG343425-3 SQ5109-1

Entered by: SS Date: 10/3/23 Accepted by: RMD Date: 10/3/23 ✓

KATAHDIN ANALYTICAL SERVICES, LLC.
Wet Chemistry Analysis Run Information Sheet

Analyte: CYANIDE	**Analyst:** SS
Instrument: KONELAB 20	**Analysis Date:** 10/2/23

Analytical Method (Check all that apply):

WG343419 → R624128
WG343420 → R624129
SCi WG343421 → R624130
Ri WG343422 → R624131

[√] EPA 335.4

[√] SW846 9012M

[√] SW846 7.3.4 (Reactive)

Ri WG343423 → R624132 Ri WG343424 → R624133 WG343425 → R624134

For reagents and standards prepared on each day of use and are either totally comsumed or disposed of, the reagent or standard ID is the abreviation of the reagent or standard name followed by the date. Please follow the preparation directions in the notes section.

Reagent Information: pH paper Lot ID: 6210005

Reagent Name	Reagent ID	Expiration Date
Pyridine / Barbituric Acid	**W22050**	**12/1/2023**
Phosphate Buffer	**W22208**	**11/2/2023**
Chloramine-T (dry reagent)	**SWL4742**	**4/22/2026**
Chloramine-T Solution, (Prepared from dry reagent)	CHL-T_100223	Day of use only
10 N NaOH Solution	**SWL4923**	**11/26/2023**
0.25 N NaOH Solution (Prepared from 10 N NaOH)	**W21570**	**1/17/2024**

Standards Information:

Standard Name	Concentration	ID	Expiration Date
Cal. Standard / CCV Stock	1000 mg/L	**SWL5067**	**7/10/2024**
Cal. Std. / CCV Intermediate	50 mg/L	**W21828**	**11/1/2023**
250 ug/L Calibration Standard	250 ug/L	**W22095**	**11/1/2023**
10 ug/L Calibration Standard	10 ug/L	**W22163**	**11/1/2023**
CCV	125 ug/L	CN_CCV_100223	Day of use only
ICV Stock	1000 mg/L	**SWL5027**	**8/11/2024**
ICV Intermediate	50 mg/L	**W21910**	**12/1/2023**
ICV	200 ug/L	**W22209**	**12/1/2023**

Notes:

1) Reagents and were prepared on day of use by dilution with reagent water as follows:
2) Standards and were prepared on day of use by dilution with 0.25N NaOH as follows:

Reagent or Standard	Prepared From	Amount Added	Final Volume
Chloramine-T Solution	Chloramine-T (dry reagent)	1.0 g	100 mL
CCV	250 ug/L Calibration Standard	5.0 mL	10.0 mL

2) Additional calibration standards (100, 50, 25, 10, 5 ug/L) prepared by instrument during analysis through dilution of the 250 ug/L calibration standard.

Aquakem v. 7.2										
Results from time period:										
Mon Oct 02 12:07:59 2023										
Mon Oct 02 17:06:31 2023										
Sample Id	Test short name	Result	Result unit	Result date and time	Dil. Factor	Response	Blank init abs. (A)	TEDin abs. 1	Comments	
CN-0	Cyanide	1.97395	µg/l	10/2/23 12:07:59	1	0.00277	0.00366	0.00643	NEEDS RECAL	
CN-250	Cyanide	6.36804	µg/l	10/2/23 12:08:00	50	0.00716	0.00152	0.00867	NEEDS RECAL	
CN-250	Cyanide	11.11129	µg/l	10/2/23 12:08:01	25	0.01189	0.00111	0.013	NEEDS RECAL	
CN-250	Cyanide	25.38046	µg/l	10/2/23 12:08:02	10	0.02615	0.00082	0.02697	NEEDS RECAL	
CN-250	Cyanide	48.2356	µg/l	10/2/23 12:08:03	5	0.04897	0.00126	0.05024	NEEDS RECAL	
CN-250	Cyanide	94.4794	µg/l	10/2/23 12:08:04	2.5	0.09516	0.00164	0.0968	NEEDS RECAL	
CN-250	Cyanide	252.45126	µg/l	10/2/23 12:08:05	1	0.25294	0.00509	0.25803	NEEDS RECAL	
CN-CCV	Cyanide	112.93768	µg/l	10/2/23 12:39:32	1	0.1136	0.00064	0.11424	NEEDS RECAL	
CN-CCB	Cyanide	1.58266	µg/l	10/2/23 12:39:33	1	0.00238	0.00089	0.00327	NEEDS RECAL	
BLANK	Cyanide	1.67082	µg/l	10/2/23 12:39:34	1	0.00247	0.0008	0.00326	NEEDS RECAL	
LCS	Cyanide	158.73274	µg/l	10/2/23 12:39:35	1	0.15934	0.00118	0.16051	NEEDS RECAL	
HIGH PT	Cyanide	206.6236	µg/l	10/2/23 12:39:36	1	0.20717	0.00136	0.20852	NEEDS RECAL	
LOW PT	Cyanide	12.97974	µg/l	10/2/23 12:39:37	1	0.01376	0.0009	0.01466	NEEDS RECAL	
5PT	Cyanide	5.94668	µg/l	10/2/23 12:39:38	1	0.00674	0.0008	0.00753	NEEDS RECAL	
LCSD	Cyanide	159.70619	µg/l	10/2/23 12:39:39	1	0.16031	0.00056	0.16087	NEEDS RECAL	
SQ5140-3	Cyanide	3.67115	µg/l	10/2/23 12:39:40	1	0.00446	0.00062	0.00508	NEEDS RECAL	
SQ5226-2	Cyanide	0.78717	µg/l	10/2/23 12:39:41	1	0.00158	0.00122	0.0028	NEEDS RECAL	
SQ5291-1	Cyanide	4.10459	µg/l	10/2/23 12:39:42	1	0.0049	0.00358	0.00848	NEEDS RECAL	
SQ5115-10	Cyanide	1.7857	µg/l	10/2/23 12:45:41	1	0.00258	0.00101	0.00359	NEEDS RECAL	
CN-CCV	Cyanide	114.20641	µg/l	10/2/23 12:45:42	1	0.11486	0.00097	0.11584	NEEDS RECAL	
CN-CCB	Cyanide	1.29833	µg/l	10/2/23 12:45:43	1	0.00209	0.00091	0.003	NEEDS RECAL	
SQ5115-11	Cyanide	1.71612	µg/l	10/2/23 12:45:44	1	0.00251	0.00137	0.00388	NEEDS RECAL	
SQ5141-2	Cyanide	4.36133	µg/l	10/2/23 12:45:45	1	0.00515	0.00158	0.00673	NEEDS RECAL	
SQ5142-3	Cyanide	2.70011	µg/l	10/2/23 12:45:46	1	0.00349	0.00372	0.00722	NEEDS RECAL	
SQ5159-2	Cyanide	2.33842	µg/l	10/2/23 12:45:47	1	0.00313	0.00408	0.00721	NEEDS RECAL	
SQ5221-1	Cyanide	2.49704	µg/l	10/2/23 12:45:48	1	0.00329	0.00165	0.00494	NEEDS RECAL	
SQ5221-2	Cyanide	2.04075	µg/l	10/2/23 12:45:49	1	0.00284	0.00209	0.00492	NEEDS RECAL	
SQ5221-3	Cyanide	3.14148	µg/l	10/2/23 12:45:50	1	0.00393	0.00374	0.00767	NEEDS RECAL	
SQ5228-2	Cyanide	0.86508	µg/l	10/2/23 12:45:51	1	0.00166	0.00244	0.0041	NEEDS RECAL	
SQ5229-2	Cyanide	20.57309	µg/l	10/2/23 12:51:52	1	0.02134	0.00204	0.02338	NEEDS RECAL	
SQ5230-2	Cyanide	2.29341	µg/l	10/2/23 12:51:53	1	0.00309	0.00304	0.00612	NEEDS RECAL	
CN-CCV	Cyanide	114.52982	µg/l	10/2/23 12:51:54	1	0.11519	0.00089	0.11608	NEEDS RECAL	
CN-CCB	Cyanide	1.80958	µg/l	10/2/23 12:51:55	1	0.0026	0.00092	0.00352	NEEDS RECAL	
AQ R BLANK	Cyanide	2.44414	µg/l	10/2/23 12:51:56	1	0.00324	0.00089	0.00413	NEEDS RECAL	
AQ R LCS	Cyanide	751.53253	µg/l	10/2/23 12:51:57	1	0.75141	0.00419	0.75561	NEEDS RECAL	
AQ R LCSD	Cyanide	483.48438	µg/l	10/2/23 12:51:58	1	0.48369	0.0035	0.4872	NEEDS RECAL	
SQ5208-1	Cyanide	1.69349	µg/l	10/2/23 12:51:59	1	0.00249	0.00088	0.00337	NEEDS RECAL	
SQ5108-1	Cyanide	1.34638	µg/l	10/2/23 12:52:00	1	0.00214	0.00069	0.00283	NEEDS RECAL	
SL R BLANK	Cyanide	1.51577	µg/l	10/2/23 12:52:01	1	0.00231	0.00063	0.00294	NEEDS RECAL	
SL R LCS	Cyanide	479.78525	µg/l	10/2/23 12:52:02	1	0.48	0.00206	0.48206	NEEDS RECAL	
SL R LCSD	Cyanide	343.31857	µg/l	10/2/23 12:56:18	1	0.3437	0.00795	0.35165	NEEDS RECAL	
SQ5209-1	Cyanide	1.98197	µg/l	10/2/23 12:56:19	1	0.00278	0.00085	0.00363	NEEDS RECAL	

SQ5109-1	Cyanide	1.45469	µg/l	10/2/23 12:56:20	1	0.00225	0.00056	0.00281	NEEDS RECAL	
CN-CCV	Cyanide	109.2509	µg/l	10/2/23 12:56:46	1	0.10991	0.00071	0.11062	NEEDS RECAL	
CN-CCB	Cyanide	1.8271	µg/l	10/2/23 12:56:47	1	0.00262	0.00077	0.00339	NEEDS RECAL	
LCS	Cyanide	165.77824	µg/l	10/2/23 13:00:30	1	0.16637	0.00084	0.16721	NEEDS RECAL	
HIGH PT	Cyanide	219.95169	µg/l	10/2/23 13:00:31	1	0.22048	0.00089	0.22137	NEEDS RECAL	
LOW PT	Cyanide	13.20092	µg/l	10/2/23 13:00:32	1	0.01398	0.00121	0.01519	NEEDS RECAL	
LCSD	Cyanide	169.52908	µg/l	10/2/23 13:00:33	1	0.17012	0.00112	0.17124	NEEDS RECAL	
CN-CCV	Cyanide	116.49739	µg/l	10/2/23 13:02:44	1	0.11715	0.00058	0.11773	NEEDS RECAL	
CN-CCB	Cyanide	-1.88382	µg/l	10/2/23 13:02:45	1	-0.00108	0.00416	0.00307	NEEDS RECAL	
SQ5229-2	Cyanide	21.69615	µg/l	10/2/23 13:07:58	1	0.02247	0.0026	0.02506	NEEDS RECAL	
AQ R LCS	Cyanide	774.28265	µg/l	10/2/23 13:12:31	4	0.19413	0.00184	0.19597	NEEDS RECAL	
AQ R LCSD	Cyanide	498.84052	µg/l	10/2/23 13:12:32	3	0.16687	0.00196	0.16883	NEEDS RECAL	
SL R LCS	Cyanide	467.03918	µg/l	10/2/23 13:12:33	3	0.15629	0.00257	0.15886	NEEDS RECAL	
CN-CCV	Cyanide	113.43221	µg/l	10/2/23 13:14:43	1	0.11409	0.00092	0.11501	NEEDS RECAL	
CN-CCB	Cyanide	1.48719	µg/l	10/2/23 13:14:44	1	0.00228	0.0012	0.00348	NEEDS RECAL	
LCS	Cyanide	160.73412	µg/l	10/2/23 13:17:39	1	0.16134	0.00112	0.16245	NEEDS RECAL	
HIGH PT	Cyanide	217.82387	µg/l	10/2/23 13:17:40	1	0.21836	0.00084	0.21919	NEEDS RECAL	
LOW PT	Cyanide	13.44046	µg/l	10/2/23 13:17:41	1	0.01422	0.00073	0.01495	NEEDS RECAL	
LCSD	Cyanide	168.29227	µg/l	10/2/23 13:17:42	1	0.16888	0.00058	0.16946	NEEDS RECAL	
CN-CCV	Cyanide	114.80089	µg/l	10/2/23 13:19:51	1	0.11546	0.00071	0.11617	NEEDS RECAL	
CN-CCB	Cyanide	1.50178	µg/l	10/2/23 13:19:52	1	0.0023	0.00082	0.00312	NEEDS RECAL	
CN-CCB	Cyanide		µg/l	10/2/23 14:30:59	1				NEEDS RECAL	
CN-CCV	Cyanide	109.10856	µg/l	10/2/23 14:40:22	1	0.10977	0.00071	0.11049	NEEDS RECAL	
CN-CCB	Cyanide	1.76498	µg/l	10/2/23 14:40:23	1	0.00256	0.00042	0.00298	NEEDS RECAL	
AQ R BLANK	Cyanide	1.65866	µg/l	10/2/23 14:40:24	1	0.00245	0.00069	0.00314	NEEDS RECAL	
SQ5208-1	Cyanide	2.23815	µg/l	10/2/23 14:40:25	1	0.00303	0.00111	0.00415	NEEDS RECAL	
SQ5108-1	Cyanide	1.51016	µg/l	10/2/23 14:40:26	1	0.00231	0.00097	0.00327	NEEDS RECAL	
SL R BLANK	Cyanide	1.53777	µg/l	10/2/23 14:40:27	1	0.00233	0.00048	0.00282	NEEDS RECAL	
SQ5209-1	Cyanide	1.74808	µg/l	10/2/23 14:40:28	1	0.00254	0.0005	0.00305	NEEDS RECAL	
SQ5109-1	Cyanide	2.19581	µg/l	10/2/23 14:40:29	1	0.00299	0.00046	0.00345	NEEDS RECAL	
SL BLANK	Cyanide	1.21731	µg/l	10/2/23 14:40:30	1	0.00201	0.00054	0.00255	NEEDS RECAL	
SL LCS	Cyanide	168.49307	µg/l	10/2/23 14:40:31	1	0.16908	0.00122	0.1703	NEEDS RECAL	
SQ5280-1	Cyanide	14.5021	µg/l	10/2/23 14:40:32	1	0.01528	0.00051	0.01579	NEEDS RECAL	
SQ5280-1 DUP	Cyanide	23.88548	µg/l	10/2/23 14:45:30	1	0.02465	0.00112	0.02577	NEEDS RECAL	
CN-CCV	Cyanide	114.90027	µg/l	10/2/23 14:45:31	1	0.11556	0.00115	0.11671	NEEDS RECAL	
SQ5280-1 MS	Cyanide	114.32955	µg/l	10/2/23 14:45:33	1	0.11499	0.00048	0.11546	NEEDS RECAL	
LOW PT REDIS	Cyanide	10.03546	µg/l	10/2/23 14:45:34	1	0.01082	0.00083	0.01165	NEEDS RECAL	
LCS REDIS	Cyanide	171.38498	µg/l	10/2/23 14:45:35	1	0.17197	0.00133	0.17331	NEEDS RECAL	
LCSD REDIS	Cyanide	169.58131	µg/l	10/2/23 14:45:36	1	0.17017	0.00172	0.17189	NEEDS RECAL	
SL LCSD	Cyanide	169.99051	µg/l	10/2/23 14:45:37	1	0.17058	0.00044	0.17102	NEEDS RECAL	
SL R LCSD	Cyanide	335.49072	µg/l	10/2/23 14:48:39	2	0.16834	0.00401	0.17234	NEEDS RECAL	
CN-CCV	Cyanide	114.88837	µg/l	10/2/23 14:50:42	1	0.11555	0.00092	0.11647	NEEDS RECAL	
CN-0	Cyanide	0.39079	µg/l	10/2/23 15:09:03	1	0.00238	0.0005	0.00289	CAL POINT	
CN-250	Cyanide	5.33745	µg/l	10/2/23 15:09:04	50	0.00714	0.00094	0.00808	CAL POINT	
CN-250	Cyanide	10.02039	µg/l	10/2/23 15:09:05	25	0.01165	0.00078	0.01243	CAL POINT	
CN-250	Cyanide	25.11398	µg/l	10/2/23 15:09:06	10	0.02617	0.00048	0.02665	CAL POINT	
CN-250	Cyanide	49.03002	µg/l	10/2/23 15:09:07	5	0.04917	0.00112	0.05029	CAL POINT	
CN-250	Cyanide	99.88724	µg/l	10/2/23 15:09:08	2.5	0.09809	0.00131	0.0994	CAL POINT	

CN-250	Cyanide	250.22015	µg/l	10/2/23 15:09:09	1	0.2427	0.00234	0.24505	CAL POINT	
CN-CCV	Cyanide	115.27749	µg/l	10/2/23 15:28:21	1	0.1129	0.01472	0.12762	92%	
CN-CCB	Cyanide	0.21424	µg/l	10/2/23 15:28:22	1	0.00221	0.00071	0.00293		
BLANK	Cyanide	1.56339	µg/l	10/2/23 15:28:23	1	0.00351	0.00053	0.00404	ACCEPTED	
5PT	Cyanide	5.73637	µg/l	10/2/23 15:28:24	1	0.00753	0.00061	0.00814	ACCEPTED	
SQ5140-3	Cyanide	2.99839	µg/l	10/2/23 15:28:25	1	0.00489	0.00081	0.00571	ACCEPTED	
SQ5226-2	Cyanide	0.08239	µg/l	10/2/23 15:28:26	1	0.00209	0.00082	0.00291	ACCEPTED	
SQ5291-1	Cyanide	3.81792	µg/l	10/2/23 15:28:27	1	0.00568	0.00781	0.01349	ACCEPTED	
SQ5115-10	Cyanide	1.1983	µg/l	10/2/23 15:28:28	1	0.00316	0.00032	0.00348	ACCEPTED	
SQ5115-11	Cyanide	1.81525	µg/l	10/2/23 15:28:29	1	0.00375	0.0005	0.00426	ACCEPTED	
SQ5141-2	Cyanide	3.02714	µg/l	10/2/23 15:28:30	1	0.00492	0.00631	0.01123	ACCEPTED	
SQ5142-3	Cyanide	1.57458	µg/l	10/2/23 15:28:31	1	0.00352	0.00278	0.0063	ACCEPTED	
LCS	Cyanide	155.33757	µg/l	10/2/23 15:34:32	1	0.15143	0.00014	0.15157	REDIST TO CONFIRM	
CN-CCV	Cyanide	119.86876	µg/l	10/2/23 15:34:33	1	0.11731	0.001	0.11831	96%	
CN-CCB	Cyanide	0.69316	µg/l	10/2/23 15:34:34	1	0.00268	0.00051	0.00319		
HIGH PT	Cyanide	209.37509	µg/l	10/2/23 15:34:35	1	0.20341	0.00066	0.20407	REDIST TO CONFIRM	
SQ5159-2	Cyanide	3.20481	µg/l	10/2/23 15:34:36	1	0.00509	0.00102	0.00611	ACCEPTED	
SQ5221-1	Cyanide	2.35709	µg/l	10/2/23 15:34:37	1	0.00428	0.00139	0.00566	ACCEPTED	
SQ5221-2	Cyanide	1.9835	µg/l	10/2/23 15:34:38	1	0.00392	0.00131	0.00522	ACCEPTED	
SQ5221-3	Cyanide	16.76912	µg/l	10/2/23 15:34:39	1	0.01814	0.00287	0.021	ACCEPTED	
SQ5228-2	Cyanide	-0.06572	µg/l	10/2/23 15:34:40	1	0.00195	0.00143	0.00338	ACCEPTED	
SQ5229-2	Cyanide	21.61413	µg/l	10/2/23 15:34:41	1	0.0228	0.0014	0.0242	RERUN TO CONFIRM	
SQ5230-2	Cyanide	2.14171	µg/l	10/2/23 15:34:42	1	0.00407	0.00125	0.00532	ACCEPTED	
LOW PT	Cyanide	11.7977	µg/l	10/2/23 15:40:41	1	0.01336	0.00086	0.01422	REDIST TO CONFIRM	
LCSD	Cyanide	159.52722	µg/l	10/2/23 15:40:42	1	0.15546	0.00118	0.15664	REDIST TO CONFIRM	
CN-CCV	Cyanide	120.28695	µg/l	10/2/23 15:40:43	1	0.11772	0.00115	0.11887	96%	
CN-CCB	Cyanide	0.57189	µg/l	10/2/23 15:40:44	1	0.00256	0.00115	0.00371		
AQ R BLANK	Cyanide	1.03415	µg/l	10/2/23 15:40:45	1	0.003	0.00103	0.00403	ACCEPTED	
SQ5208-1	Cyanide	8.99285	µg/l	10/2/23 15:40:46	1	0.01066	0.00239	0.01305	RERUN TO CONFIRM	
SQ5108-1	Cyanide	0.84174	µg/l	10/2/23 15:40:47	1	0.00282	0.00102	0.00384	ACCEPTED	
SL R BLANK	Cyanide	0.84016	µg/l	10/2/23 15:40:48	1	0.00282	0.00056	0.00338	ACCEPTED	
SQ5209-1	Cyanide	1.27478	µg/l	10/2/23 15:40:49	1	0.00323	0.00052	0.00376	ACCEPTED	
SQ5109-1	Cyanide	1.36583	µg/l	10/2/23 15:40:50	1	0.00332	0.0005	0.00382	ACCEPTED	
SL BLANK	Cyanide	0.58768	µg/l	10/2/23 15:40:51	1	0.00257	0.00043	0.003	ACCEPTED	
SL LCS	Cyanide	170.45609	µg/l	10/2/23 15:46:31	1	0.16597	-0.00005	0.16592	REMAKE LCS AND REDIST	
SQ5280-1	Cyanide	14.90833	µg/l	10/2/23 15:46:32	1	0.01635	0.00111	0.01746	ACCEPTED	
SQ5280-1 DUP	Cyanide	24.98491	µg/l	10/2/23 15:46:33	1	0.02604	0.00032	0.02636	RERUN TO CONFIRM	
CN-CCV	Cyanide	120.54691	µg/l	10/2/23 15:46:34	1	0.11797	0.0009	0.11887	96%	
CN-CCB	Cyanide	0.4468	µg/l	10/2/23 15:46:35	1	0.00244	0.00099	0.00343		
SQ5280-1 MS	Cyanide	116.32412	µg/l	10/2/23 15:46:36	1	0.1139	0.00071	0.11461	RERUN TO CONFIRM	
LOW PT REDIS	Cyanide	9.55661	µg/l	10/2/23 15:46:37	1	0.0112	0.00072	0.01192	ACCEPTED	
LCS REDIS	Cyanide	176.55148	µg/l	10/2/23 15:46:38	1	0.17184	0.00066	0.1725	REMAKE LCS AND REDIST	
LCSD REDIS	Cyanide	173.66556	µg/l	10/2/23 15:46:39	1	0.16906	0.00135	0.17041	REMAKE LCS AND REDIST	
SL LCSD	Cyanide	172.43355	µg/l	10/2/23 15:46:40	1	0.16788	0.00206	0.16994	REMAKE LCS AND REDIST	
SQ5221-3	Cyanide	7.71325	µg/l	10/2/23 15:51:11	1	0.00943	0.00242	0.01184	TO CONFIRM, NOT REPORTED	
SQ5229-2	Cyanide	22.22556	µg/l	10/2/23 15:51:12	1	0.02339	0.00202	0.02541	ACCEPTED	
AQ R LCS	Cyanide	782.25037	µg/l	10/2/23 15:57:29	4	0.19012	0.0012	0.19132	ACCEPTED	
AQ R LCSD	Cyanide	509.12173	µg/l	10/2/23 15:57:30	3	0.16525	0.00159	0.16685	ACCEPTED	

SL R LCS	Cyanide	487.57776	µg/l	10/2/23 15:57:31	3	0.15835	0.00178	0.16013	ACCEPTED	
CN-CCV	Cyanide	125.80627	µg/l	10/2/23 15:57:32	1	0.12302	0.00049	0.12351	101%	
CN-CCB	Cyanide	0.53943	µg/l	10/2/23 15:57:33	1	0.00253	0.00028	0.00281	ACCEPTED JV	
SL R LCSD	Cyanide	339.72699	µg/l	10/2/23 15:57:34	2	0.1654	0.0016	0.167	~~REMAKE LCS AND REDIST~~	
CN-CCV	Cyanide	125.07218	µg/l	10/2/23 16:00:12	1	0.12232	0.00034	0.12266	100%	
CN-CCB	Cyanide	0.478	µg/l	10/2/23 16:00:13	1	0.00247	0.00042	0.00288		
SQ5208-1	Cyanide	1.12142	µg/l	10/2/23 16:06:28	1	0.00309	0.00026	0.00335	ACCEPTED	
SQ5280-1	Cyanide	14.06552	µg/l	10/2/23 16:08:48	1	0.01554	-0.00001	0.01553	TO CONFIRM, NOT REPORTED	
SQ5280-1 DUP	Cyanide	25.40473	µg/l	10/2/23 16:08:49	1	0.02645	0.00037	0.02682	ACCEPTED	
SQ5280-1 MS	Cyanide	117.31757	µg/l	10/2/23 16:08:50	1	0.11486	0.00042	0.11528	ACCEPTED	
CN-CCV	Cyanide	119.70879	µg/l	10/2/23 16:11:00	1	0.11716	0.00002	0.11718	96%	
CN-CCB	Cyanide	0.56754	µg/l	10/2/23 16:11:01	1	0.00255	0.00037	0.00293		
CN-CCB	Cyanide		µg/l	10/2/23 16:34:17	1				INST ERROR	
CN-CCV	Cyanide	116.8535	µg/l	10/2/23 16:43:48	1	0.11441	0.00098	0.11539	93%	
CN-CCB	Cyanide	0.56713	µg/l	10/2/23 16:43:49	1	0.00255	0.00077	0.00332		
SQ5200-1 20X	Cyanide	0.89664	µg/l	10/2/23 16:43:50	1	0.00287	0.00068	0.00355	RERUN, INST ERROR	
HIGH PT REDIS	Cyanide	238.05948	µg/l	10/2/23 16:43:51	1	0.231	0.00067	0.23167	RERUN, INST ERROR	
LCS REDIS 2	Cyanide	184.9801	µg/l	10/2/23 16:43:52	1	0.17995	0.00032	0.18027	RERUN, INST ERROR	
LCSD REDIS 2	Cyanide	187.70384	µg/l	10/2/23 16:43:53	1	0.18257	0.00081	0.18337	RERUN, INST ERROR	
SL LCS REDIS	Cyanide	184.92375	µg/l	10/2/23 16:43:54	1	0.17989	0.00047	0.18036	RERUN, INST ERROR	
SL LCSD REDIS	Cyanide	207.59439	µg/l	10/2/23 16:43:55	1	0.2017	0.00079	0.20249	RERUN, INST ERROR	
CN-CCV	Cyanide	121.60619	µg/l	10/2/23 16:46:47	1	0.11898	0.00082	0.11981	INST ERROR	
CN-CCV	Cyanide	118.57948	µg/l	10/2/23 17:03:24	1	0.11607	0.00078	0.11686	95%	
CN-CCB	Cyanide	0.35139	µg/l	10/2/23 17:03:25	1	0.00235	0.00113	0.00348		
SQ5200-1 20X	Cyanide	0.98351	µg/l	10/2/23 17:03:26	1	0.00295	0.00069	0.00364	ACCEPTED	
HIGH PT REDIS	Cyanide	237.31641	µg/l	10/2/23 17:03:27	1	0.23029	0.00057	0.23086	ACCEPTED	
LCS REDIS 2	Cyanide	186.017	µg/l	10/2/23 17:03:28	1	0.18094	0.00046	0.1814	ACCEPTED	
LCSD REDIS 2	Cyanide	186.97197	µg/l	10/2/23 17:03:29	1	0.18186	0.00073	0.18259	ACCEPTED	
SL LCS REDIS	Cyanide	185.47919	µg/l	10/2/23 17:03:30	1	0.18043	0.00031	0.18073	ACCEPTED	
SL LCSD REDIS	Cyanide	208.69398	µg/l	10/2/23 17:03:31	1	0.20276	0.00109	0.20385	ACCEPTED	
CN-CCV	Cyanide	125.06586	µg/l	10/2/23 17:06:30	1	0.12231	0.00088	0.12319	100%	
CN-CCB	Cyanide	0.32599	µg/l	10/2/23 17:06:31	1	0.00232	0.00094	0.00327		

RAD 10/3/23

Laboratory
Analyzer User

Date : 10/2/2023
Time : 17:08

Test Cyanide
Unit µg/l

Sample ID:	Result	Date and Time	Note
CN-CCV	112.9377	10/2/2023 12:39	
CN-CCB	1.5827	10/2/2023 12:39	
BLANK		-	R
LCS		-	R
HIGH PT		-	R
LOW PT		-	R
5PT		-	R
LCSD		-	R
SQ5140-3		-	R
SQ5226-2		-	R
SQ5291-1		-	R
SQ5115-10		-	R
CN-CCV	114.2064	10/2/2023 12:45	
CN-CCB	1.2983	10/2/2023 12:45	
SQ5115-11		-	R
SQ5141-2		-	R
SQ5142-3		-	R
SQ5159-2		-	R
SQ5221-1		-	R
SQ5221-2		-	R
SQ5221-3		-	R
SQ5228-2		-	R
SQ5229-2		-	R
SQ5230-2		-	R
CN-CCV	114.5298	10/2/2023 12:51	
CN-CCB	1.8096	10/2/2023 12:51	
AQ R BLANK		-	R
AQ R LCS		-	R
AQ R LCSD		-	R
SQ5208-1		-	R
SQ5108-1		-	R
SL R BLANK		-	R
SL R LCS		-	R
SL R LCSD		-	R
SQ5209-1		-	R
SQ5109-1		-	R
CN-CCV	109.2509	10/2/2023 12:56	
CN-CCB	1.8271	10/2/2023 12:56	
LCS		-	R
HIGH PT		-	R
LOW PT		-	R
LCSD		-	R
CN-CCV	116.4974	10/2/2023 13:02	
CN-CCB	-1.8838	10/2/2023 13:02	
SQ5229-2		-	R
AQ R LCS		-	R
AQ R LCSD		-	R
SL R LCS		-	R
CN-CCV	113.4322	10/2/2023 13:14	
CN-CCB	1.4872	10/2/2023 13:14	
LCS		-	R
HIGH PT		-	R
LOW PT		-	R

Laboratory
Analyzer User

Date : 10/2/2023
Time : 17:08

Test		Cyanide	
Unit		µg/l	
Sample ID:	Result	Date and Time	Note
LCSD		-	R
CN-CCV	114.8009	10/2/2023 13:19	
CN-CCB	1.5018	10/2/2023 13:19	
CN-CCB		-	
CN-CCV		-	
CN-CCB		-	
AQ R BLANK		-	R
SQ5208-1		-	R
SQ5108-1		-	R
SL R BLANK		-	R
SQ5209-1		-	R
SQ5109-1		-	R
SL BLANK		-	R
SL LCS		-	R
SQ5280-1		-	R
SQ5280-1 DUP		-	R
CN-CCV		-	
SQ5280-1 MS		-	R
LOW PT REDIS		-	R
LCS REDIS		-	R
LCSD REDIS		-	R
SL LCSD		-	R
SL R LCSD		-	R
CN-CCV		-	
CN-CCV	115.2775	10/2/2023 15:28	
CN-CCB	0.2142	10/2/2023 15:28	
BLANK	1.5634	10/2/2023 15:28	R
5PT	5.7364	10/2/2023 15:28	R
SQ5140-3	2.9984	10/2/2023 15:28	R
SQ5226-2	0.0824	10/2/2023 15:28	R
SQ5291-1	3.8179	10/2/2023 15:28	R
SQ5115-10	1.1983	10/2/2023 15:28	R
SQ5115-11	1.8152	10/2/2023 15:28	R
SQ5141-2	3.0271	10/2/2023 15:28	R
SQ5142-3	1.5746	10/2/2023 15:28	R
LCS	155.3376	10/2/2023 15:34	R
CN-CCV	119.8688	10/2/2023 15:34	
CN-CCB	0.6932	10/2/2023 15:34	
HIGH PT	209.3751	10/2/2023 15:34	R
SQ5159-2	3.2048	10/2/2023 15:34	R
SQ5221-1	2.3571	10/2/2023 15:34	R
SQ5221-2	1.9835	10/2/2023 15:34	R
SQ5221-3		-	R
SQ5228-2	-0.0657	10/2/2023 15:34	R
SQ5229-2		-	R
SQ5230-2	2.1417	10/2/2023 15:34	R
LOW PT	11.7977	10/2/2023 15:40	R
LCSD	159.5272	10/2/2023 15:40	R
CN-CCV	120.2869	10/2/2023 15:40	
CN-CCB	0.5719	10/2/2023 15:40	
AQ R BLANK	1.0341	10/2/2023 15:40	R
SQ5208-1		-	R
SQ5108-1	0.8417	10/2/2023 15:40	R

Laboratory
Analyzer User

Date : 10/2/2023
Time : 17:08

Test Cyanide
Unit µg/l

Sample ID:	Result	Date and Time	Note
SL R BLANK	0.8402	10/2/2023 15:40	R
SQ5209-1	1.2748	10/2/2023 15:40	R
SQ5109-1	1.3658	10/2/2023 15:40	R
SL BLANK	0.5877	10/2/2023 15:40	R
SL LCS	170.4561	10/2/2023 15:46	R
SQ5280-1	_____	-	R
SQ5280-1 DUP	_____	-	R
CN-CCV	120.5469	10/2/2023 15:46	
CN-CCB	0.4468	10/2/2023 15:46	
SQ5280-1 MS	_____	-	R
LOW PT REDIS	9.5566	10/2/2023 15:46	R
LCS REDIS	176.5515	10/2/2023 15:46	R
LCSD REDIS	173.6656	10/2/2023 15:46	R
SL LCSD	172.4335	10/2/2023 15:46	R
SQ5221-3	7.7133	10/2/2023 15:51	R
SQ5229-2	22.2256	10/2/2023 15:51	R
AQ R LCS	782.2504	10/2/2023 15:57	R
AQ R LCSD	509.1217	10/2/2023 15:57	R
SL R LCS	487.5778	10/2/2023 15:57	R
CN-CCV	125.8063	10/2/2023 15:57	
CN-CCB	0.5394	10/2/2023 15:57	
SL R LCSD	339.7270	10/2/2023 15:57	R
CN-CCV	125.0722	10/2/2023 16:00	
CN-CCB	0.4780	10/2/2023 16:00	
SQ5208-1	1.1214	10/2/2023 16:06	R
SQ5280-1	14.0655	10/2/2023 16:08	R
SQ5280-1 DUP	25.4047	10/2/2023 16:08	R
SQ5280-1 MS	117.3176	10/2/2023 16:08	R
CN-CCV	119.7088	10/2/2023 16:11	
CN-CCB	0.5675	10/2/2023 16:11	
CN-CCB	_____	-	
CN-CCV	_____	-	
CN-CCB	_____	-	
SQ5200-1 20X	_____	-	R
HIGH PT REDIS	_____	-	R
LCS REDIS 2	_____	-	R
LCSD REDIS 2	_____	-	R
SL LCS REDIS	_____	-	R
SL LCSD REDIS	_____	-	R
CN-CCV	_____	-	
CN-CCV	_____	-	
CN-CCB	_____	-	
SQ5200-1 20X	0.9835	10/2/2023 17:03	R
HIGH PT REDIS	237.3164	10/2/2023 17:03	R
LCS REDIS 2	186.0170	10/2/2023 17:03	R
LCSD REDIS 2	186.9720	10/2/2023 17:03	R
SL LCS REDIS	185.4792	10/2/2023 17:03	R
SL LCSD REDIS	208.6940	10/2/2023 17:03	R
CN-CCV	_____	-	
CN-CCB	_____	-	

Laboratory
Analyzer User

10/2/2023 15:09

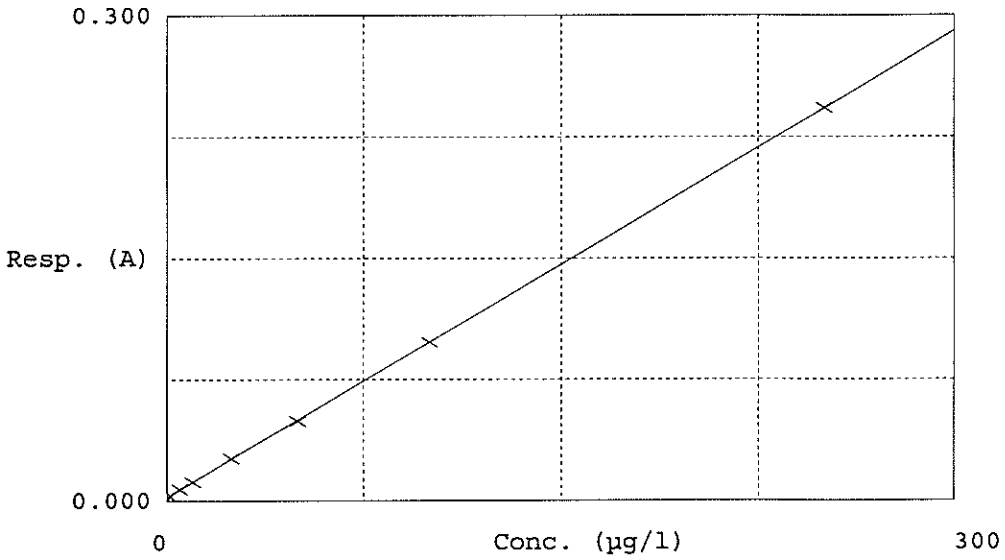
Test Cyanide

Accepted 10/2/2023 15:09

Factor 1040
Bias 0.002

Coeff. of det. 0.999973

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	CN-0	0.002	0.39079	0.00000	
2	CN-250	0.007	5.33745	5.00000	
3	CN-250	0.012	10.02039	10.00000	
4	CN-250	0.026	25.11398	25.00000	
5	CN-250	0.049	49.03002	50.00000	
6	CN-250	0.098	99.88724	100.00000	
7	CN-250	0.243	250.22015	250.00000	

KATAHDIN ANALYTICAL SERVICES

CYANIDE MINI DISTILLATION:	SM4500-CN C	E335.4	SW9012B

Standard	True Value ug/L	Source Standard ID	Source Standard Spike Amount (mL)	PQL = 10 ug/L (AQ) & 0.5 mg/kg (SL)
Cal High Point	250	W22095	6	Releasing Solution: W22131
Cal Low Point	10	W22163	1	NaOH Trapping Solution (IN): W22038
LCS	200	W22209	1	NaOH-0.25N: W22096
Matrix Spike	100	— *	~~Δ 0.12~~ SS 10/2/23	Block SN: 131200002198

Sulfamic Acid ID: SWC4305 | KI TS ID: 14-860 | Lead Acetate TS ID: S60125 | Acetic Acid ID: SWC4165

Notes: MB = membrane broke
* = W21910
Δ = 0.012

BAL ID: 20

Pipette IDs: W20, W8, W3, W17, W10

KAS Sample ID	Res. Cl Check	Res. S2 Check	Initial pH	Distillation Start Time	Distillation End Time	Sample Volume (mL)	Sample Weight (g)	Distillate Volume	Comments
Blank	NA	NA	NA	11:34	12:05	6		6	
LCS	NA	NA	NA						
High	NA	NA	NA						
Low	NA	NA	NA						
SPT									
LCSD									
SQ5140-3			✓						
MB 5200-1									
5226-2									
5291-1									
5115-10									
-11									
5141-2									
5142-3									
5159-2									
5221-1									
-2									
-3									
5228-2									
5229-2									
5230-2									
SL Blank	NA	NA	NA	13:46	14:17		0.129	6	
SL LCS							0.105		
SQ5280-1							0.113		
DUP							0.145		
MS							0.158		
MB SQ5200-1			✓			1.2		6	
MB 5200-1						0.6			
~~High~~ Low Pt	NA	NA	NA			6		6	

DISTILLED BY: SS | DISTILLATION DATE: 10/2/23

REVIEWED BY: RAD | REVIEW DATE: 10/3/23

KATAHDIN ANALYTICAL SERVICES

CYANIDE MINI DISTILLATION:	SM4500-CN C	E335.4	SW9012B

Standard	True Value ug/L	Source Standard ID	Source Standard Spike Amount (mL)	PQL = 10 ug/L (AQ) & 0.5 mg/kg (SL)
Cal High Point	250			Releasing Solution:
Cal Low Point	10			NaOH Trapping Solution (N):
LCS	200			NaOH 0.25N:
Matrix Spike	100			Block SN: 131200002198

Sulfamic Acid ID:	KI TS ID:	Lead Acetate TS ID:	Acetic Acid ID:

Notes: BAL ID: Pipette IDs: see Prev pg. SS 10/2/23

KAS Sample ID	Res. Cl Check	Res. S2 Check	Initial pH	Distillation Start Time	Distillation End Time	Sample Volume (mL)	Sample Weight (g)	Distillate Volume	Comments
Blank	NA	NA	NA						
LCS	NA	NA	NA	13:46	14:17	6	2	6	
High	NA	NA	NA						
Low	NA	NA	NA						
LCSP	NA	NA	NA	13:46	14:17	6	2	6	
SL LCSD	1	1	1	1	1	2	0.1	6	
SQ5200-1	–	–	✓	15:53	16:24	0.3	2	6	
1	1	1	1	1	1	0.15	1	6	Not analyzed SS 10/2/23
1	1	1	1	1	1	0.06	1	1	SS 10/2/23
High Pt	NA	NA	NA			6	2	6	
LCS	1	1	1	1	1	1	1	1	
LCSD	1	1	1	1	1	1	1	1	
SL LCS	1	1	1	1	1	±2	0.154	1	SS 10/4/23
SL LCSD	1	1	1	1	1	±2	0.113	1	

SS 10/3/23

DISTILLED BY: SS DISTILLATION DATE: 10/2/23

REVIEWED BY: RAD REVIEW DATE: 10/3/23

KATAHDIN ANALYTICAL
REACTIVE SULFIDE

METHOD: SW846 9030 / 7.3.4.2	PQL: 27 mg/kg
REAGENT LOT #:	
IODINE STANDARD: W22108	STS SOLUTION-0.0375N: SWL5080
Na2S SOLUTION: W21995	NaOH-0.25N: W22187 / W22188
HCl-6N: W22051	H2SO4-0.01N: ~~5~~ W22186 / W22185
Total CN (1000ug/ml) SWL5091	
Pipette ID: W3 W21	Bal. ID: Bal 20
LCS PREP: 10mL NaS + 0.2mL CN-	
MS PREP: 〃	

JRS 9/28/23

STANDARDIZATION OF I2		CALC OF I2 N	STANDARDIZATION OF Na2S			CALC OF Na2S mg/ml
VOL(ml) I2	VOL(ml) Na2S2O3		VOL(ml) I2	VOL(ml) Na2S2O3	VOL(ml) Na2S	
10	6.60		10	4.18	2	
〃	6.58		〃	9.15	〃	
〃	6.61		〃	9.13	〃	
	X:			X:		

Prep Start Time	Prep End Time	Sample ID	Sample Wt. (g)	NaOH Trap Vol.(ml)	Analysis Vol.(ml)	ml I2 Soln Added	ml STS to Endpoint	Time of Analysis	
AQ 14:44	15:14	Blank	-	190	150	10	6.58	15:19	SS 10/3/23
		LCS	-			25	9.74		
		LCSD	-			〃	9.54		
		SQ5108-1	9.895			10	7.12		
		SQ5108-1	10.028			〃	6.60		LOD
SL		Blank	10.032			10	6.56		
		LCS	10.022			25	10.06		
		LCSD	10.019			〃	10.50		
		SQ5209-1	10.578			10	6.04		
		SQ5109-1	10.628			〃	6.52		LOD

NOTES: Sand ID: RE01009 AQ WG343273 WG343274 SL WG343275 WG343276

ANALYST: JRS DATE: 9/28/23

CHECKED BY: RAD DATE: 10/3/23

WET CHEMISTRY BATCH REPORT
Oct 05 2023, 03:39 pm
Batch: WG343570 Run ID 1: R624346 Run ID 2: NONE

Parameter: Ignitability
Prep Date: N/A

Date Analyzed: 05-OCT-23
Prep Method: N/A

Analyst Initials: CJB
Prep Chemist: N/A

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5108-1	SAMP	SW846 1010A	1.0000mL	1.0000mL	1	71	>71. Deg. C	NA	71	71.	71.		
SQ5109-1	SAMP	SW846 1010A	1g	1g	1	71	>71. Deg. C	NA	71	71.	71.		
SQ5354-1	SAMP	SW846 1010A	1g	1g	1	71	>71. Deg. C	NA	71	71.	71.		
WG343570-1	MBLANK	SW846 1010A	1.0000mL	1.0000mL	1	71	>71. Deg. C	NA	71	71.	71.		
WG343570-2	LCS	SW846 1010A	1.0000mL	1.0000mL	1	24.70768	25. Deg. C	NA	71	71.	71.		92
WG343570-3	LCSD	SW846 1010A	1.0000mL	1.0000mL	1	24.70768	25. Deg. C	NA	71	71.	71.	0	92

Comments:

SQ5354-1	TCLP DRO
WG343570-1	SQ5108-1
WG343570-2	SQ5108-1
WG343570-3	SQ5108-1

Entered by: CJB Date: 10-5-23 Accepted by: RAD Date: 10/6/23

Katahdin Analytical Services SQ5109 Page 677 of 681

KATAHDIN ANALYTICAL SERVICES, INC. - FLASHPOINT – CLOSED CUP LOGBOOK

Method: SW846 1010A (ASTM D 93-79)	PQL: 25 Degrees Celsius	Thermometer ID: ALC46
p-XYLENE: 27 Degrees Celsius	Ambient Barometric Pressure (*) = 768-858 mm Hg 30.27 (in. of Hg) X (25.4 mm/in)	WG343570 → RG24346
p-XYLENE Lot Number: SWL4182		

Sample ID	Analysis Time	Start Temperature (°C)	End Temperature (°C)	Flash? (Check appropriate box & record temp.)			Reported Flashpoint Corrected For Ambient Barometric Pressure	ASTM D 93-79 Method A or B	Comments
				YES	Temp.(°C)	NO			
p-Xylene (LCS)	11:46	25	25	✓	25		24.707686	A	
p-Xylene (LCS)	11:52	25	25	✓	25		24.707686		
Method Blank	11:56	25	71			✓			
SQ5108-1	12:07	25	71			✓			
SQ5109-1	13:23	25	71			✓			
SQ5354-1	14:26	25	71			✓			
							CJB	10/5/23	

* = Ambient Pressure of the laboratory at the time of the test. When the pressure differs from 760 mm Hg, correct the flashpoint as follows: Corrected Flashpoint = (Observed Flashpoint in °C) + 0.033 (760 - the ambient barometric pressure in mm Hg).

0.033(-8.858) = -0.292314

Analyst CJB Date 10-5-23

Reviewed By RAD Date 10/6/23

WL-029 – REVISION 3 – 02/12/2023

Katahdin Analytical Services SQ5109 Page 678 of 681

WET CHEMISTRY BATCH REPORT
Oct 09 2023, 02:38 pm
Batch: WG343679 Run ID 1: R624481 Run ID 2: NONE

Parameter: pH(Soil)

Prep Date: 09-OCT-23

Date Analyzed: 09-OCT-23

Prep Method: SW846 9045D

Analyst Initials: BL

Prep Chemist: BL

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5080-1	SAMP	SW846 9045D	20g	20mL	1	5.21	5.2 pH	46.	.1	0.10	0.10		
SQ5080-2	SAMP	SW846 9045D	20g	20mL	1	13.25	E13.2 pH	65.	.1	0.10	0.10		
SQ5080-3	SAMP	SW846 9045D	20g	20mL	1	12.91	E12.9 pH	85.	.1	0.10	0.10		
SQ5109-1	SAMP	SW846 9045D	20g	20mL	1	7.88	7.9 pH	NA	.1	0.10	0.10		
SQ5346-1	SAMP	SW846 9045D	20g	20mL	1	12.44	12.4 pH	NA	.1	0.10	0.10		
SQ5346-2	SAMP	SW846 9045D	20g	20mL	1	12.17	12.2 pH	NA	.1	0.10	0.10		
SQ5346-3	SAMP	SW846 9045D	20g	20mL	1	11.95	12.0 pH	NA	.1	0.10	0.10		
SQ5346-4	SAMP	SW846 9045D	20g	20mL	1	12.29	12.3 pH	NA	.1	0.10	0.10		
SQ5393-1	SAMP	SW846 9045D	20g	20mL	1	12.38	12.4 pH	NA	.1	0.10	0.10		
SQ5393-2	SAMP	SW846 9045D	20g	20mL	1	12.08	12.1 pH	NA	.1	0.10	0.10		
SQ5393-3	SAMP	SW846 9045D	20g	20mL	1	12.28	12.3 pH	NA	.1	0.10	0.10		
SQ5393-4	SAMP	SW846 9045D	20g	20mL	1	12.51	E12.5 pH	NA	.1	0.10	0.10		
SQ5393-5	SAMP	SW846 9045D	20g	20mL	1	11.96	12.0 pH	NA	.1	0.10	0.10		
SQ5444-2	SAMP	SW846 9045D	20g	20mL	1	6.96	7.0 pH	NA	.1	0.10	0.10		
WG343679-1	LCS	SW846 9045D	20g	20mL	1	6.97	7.0 pH	NA	.1	0.10	0.10		100
WG343679-2	LCSD	SW846 9045D	20g	20mL	1	6.97	7.0 pH	NA	.1	0.10	0.10	0	100

Comments:

SQ5080-1	Dry Weight Basis
WG343679-1	SQ5080-1
WG343679-2	SQ5080-1

Entered by: BL Date: 10/9/23 Accepted by: RAD Date: 10/9/23

Katahdin Analytical Services SQ5109 Page 679 of 681

KATAHDIN ANALYTICAL SERVICES

WG343679-DR624481

pH ELECTROMETRIC

pH meter: Orion Star A215 Serial Number: X77698 Probe ID: AS1-155 04

EPA: 150.1____ SM 4500H- B____ SW846 9040C____ SW846 9045D X

CALIBRATION STDS:	CALIBRATED TO:	LOT NO:
pH 2.00	2.00	SWL 5077
pH 4.00	4.01	5055
pH 7.00	7.01	5068
pH 10.00	10.00	5056
pH 12.46	12.46	5018

SAMPLE ID	SITE ID	TIME OF ANALYSIS	SAMPLE TEMP °C	pH	AQ or SL	NOTES
CCV		12:41	21.1	7.05	AQ	
LCS			21.0	6.97		
LCSD			20.9	6.97		
SQ S080-1			BS	5.21	SL	
-2			17.0	13.25		
-3			17.4	12.91		
S109-1			17.7	7.88		
S346-1			18.0	12.44		
-2			18.7	12.17		
-3			18.2	11.95		
-4			17.8	12.29		
CCV			20.8	7.05	AQ	
SQ S393-1			17.5	12.38	SL	
-2			17.8	12.08		
-3			17.5	12.28		
-4			17.5	12.51		
-5			17.6	11.96		
S444-2			17.0	6.96		
CCV	BL 10/9/23		20.0	7.05	AQ	

BL 10/9/23

ANALYST: BL DATE: 10/9/23

CHECKED BY: TAD DATE: 10/9/23

KATAHDIN ANALYTICAL SERVICES

SOIL PREPARATION BY METHOD E300

Balance ID: BAL 20 **Pipette ID(s)** AUTO

PREP TIME	SAMPLE ID	WEIGHT (g)	TOTAL H20 ADDED(ml)	ANALYSIS REQUESTED	SPIKE ADDED
	~~BLANK~~				BL 10/9/23
	LCS				BL 10/9/23
7:48	SQ5080-1	30.232	30	PH	
	-2	30.045			NOT ENOUGH LIQUID
	-3	30.544			
	S109-1	30.497			
	S346-1	30.079			
	-2	30.346			
	-3	30.114			
	-4	30.060			
	S393-1	30.021			
	-2	30.096			
	-3	30.196			
	-4	30.518			
	-5	30.213			
	S444-2	30.112			NOT ENOUGH LIQUID
	SQ 5080-2	30.106	60		
	S346-1	30.383			NOT USED
	-2	30.545			
	-3	30.338			
	-4	30.159			
	S444-2	30.953			

NOTES:

ANALYST: BL **DATE:** 10/9/23

CHECKED BY: RAD **DATE:** 10/9/23

Helen Douglas
Mabbett & Associates, Inc.
105 Central Street
Suite 4100
Stonham,MA 02180-1260

Katahdin Lab Number:	SQ5564
Project Name:	Former Dow AFB
Project Manager:	Heather Manz
Sample Receipt Date(s):	October 12, 2023

The following information is enclosed:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Leslie Dimond

Leslie Dimond - Quality Assurance Officer

11/10/2023

Date

NARRATIVE
KATAHDIN ANALYTICAL SERVICES
MABBETT & ASSOCIATES INC.
FORMER DOW AFB
SQ5564

Sample Receipt

The following samples were received on October 12, 2023 and were logged in under Katahdin Analytical Services work order number SQ5564 for a hardcopy due date of November 09, 2023.

KATAHDIN Sample No.	MABBETT Sample Identification
SQ5564-1	DOW-PFAS-1012
SQ5564-2	DOW-PFAS-1012
SQ5564-3	DOW-SWC-01

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAP standards unless otherwise noted in this narrative or in the Report of Analysis.

We certify that the test results provided in this report are accredited under the laboratory's ISO/IEC 17025:2017 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation L2223.

Analytes which are reported but not listed on our ANAB scope of accreditation will be "^" flagged and the following language will be included in the case narrative for all DoD compliant work: "^" Indicates this analyte is not included on Katahdin Analytical Services DoD-ELAP Scope of Accreditation.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Heather Manz**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of Work Order SQ5564 were analyzed in accordance with U.S. EPA, Method 1633 Draft II, and/or for the specific methods listed below or on the Report of Analysis.

1633 Analysis

Sample SQ5564-1DL had low recoveries for several of the extracted internal standards due to the dilution. Since the recoveries were above 5% and the recoveries in the non-diluted analysis were acceptable, no further action was taken.

The LCS WG344492-3 had high recoveries for seven target analytes that were outside of the method acceptance limits. Since a high recovery would indicate a high bias and the target analytes were not detected in the associated sample, no further action was taken.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Wet Chemistry Analysis

The samples of Katahdin Work Order SQ5564 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for total solids were performed according to "Standard Methods for the Examination of Water and Wastewater", 15th, 16th, 17th, 18th, 19th, and 20th editions, 1980, 1985, 1989, 1992, 1995, 1999. APHA-AWWA-WPCF.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Limit of Quantitation (LOQ) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U LOD", where "LOD" is the numerical value of the Limit of Detection.

All quality control criteria were met. All analyses were performed within analytical holding time.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Quality Assurance Officer, or their designee, as verified by the following signature.

Leslie Dimond *Nov 10, 2023*

Leslie Dimond
Quality Assurance Officer

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL, "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery or percent RPD (relative percent difference) was outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

And/or

J Used for Dual Column analytes when there is a greater than 40% difference for detected concentrations between the two GC/HPLC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

I Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration (ICAL).

D Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration Verification (ICV).

C Indicates that the flagged compound did not meet DoD criteria in the corresponding opening Calibration Verification (CV).

V Indicates that the flagged compound did not meet DoD criteria in the corresponding closing Calibration Verification (CV).

L/LL Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M/MM Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike (MS) and/or Matrix Spike Duplicate MSD) prepared and/or analyzed concurrently with the native sample.

H Indicates the flagged compound was detected on the primary column but was not detected on the confirmation column therefore the compound is not reported as a positive detection. (SW846 8330A/B only)

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client. Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 Please refer to cover letter or narrative for further information.

H_ Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.
H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit	NOD	No Odor Detected
NFL	No Free Liquid Present	FLP	Free Liquid Present	TON	Threshold Odor Number

D-1 As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

D-4 The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

D-5 The seed control factor did not meet the method criteria of greater than 2.0 mg/L of dissolved oxygen (DO) uptake over the five day period of incubation. The dilution closest to meeting the criteria was used to estimate the seed control factor.

X1 The weight difference between dry weights after measuring a third dry weight is greater than 0.001 g. [TS-AQ, TSS, TDS]

X2 The weight difference between dry weights after measuring a third dry weight is greater than 0.05 g. [TS-ME]

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5564
Lab ID: SQ5564-1
Client ID: DOW-PFAS-1012
Matrix: AQ
Lab File ID: 1LC00771

Sample Date: 12-OCT-23
Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Report Date: 09-NOV-23
Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
11Cl-PF3OUdS	U	5.4	ng/L	1	8	7.2	0.54	5.4
3:3FTCA	UL	6.7	ng/L	1	10	8.9	1.2	6.7
4:2 FTS	J	6.9	ng/L	1	8	7.2	2.3	5.4
5:3FTCA	UL	34	ng/L	1	50	45.	18.	34.
6:2 FTS		200	ng/L	1	8	7.2	2.5	5.4
7:3FTCA	UL	34	ng/L	1	50	45.	18.	34.
8:2 FTS		8.5	ng/L	1	8	7.2	2.4	5.4
9Cl-PF3ONS	U	5.4	ng/L	1	8	7.2	1.2	5.4
ADONA	UL	5.4	ng/L	1	8	7.2	2.4	5.4
GenX (HFPO-DA)	UL	5.4	ng/L	1	8	7.2	3.0	5.4
NEtFOSA	UL	1.3	ng/L	1	2	1.8	0.73	1.3
NEtFOSAA	U	1.3	ng/L	1	2	1.8	0.67	1.3
NEtFOSE	U	13	ng/L	1	20	18.	6.8	13.
NFDHA	U	2.7	ng/L	1	4	3.6	1.5	2.7
NMeFOSA	UL	1.3	ng/L	1	2	1.8	0.72	1.3
NMeFOSAA	U	1.3	ng/L	1	2	1.8	0.67	1.3
NMeFOSE	U	13	ng/L	1	20	18.	9.8	13.
PFBA		37	ng/L	1	8	7.2	2.2	5.4
PFBS		120	ng/L	1	2	1.8	0.46	1.3
PFDA	J	0.71	ng/L	1	2	1.8	0.57	1.3
PFDoA	U	1.3	ng/L	1	2	1.8	0.98	1.3
PFDoS	U	1.3	ng/L	1	2	1.8	0.36	1.3
PFDS	U	1.3	ng/L	1	2	1.8	0.37	1.3
PFEESA	U	2.7	ng/L	1	4	3.6	1.1	2.7
PFHpA		48	ng/L	1	2	1.8	0.50	1.3
PFHpS		42	ng/L	1	2	1.8	0.76	1.3
PFHxA		210	ng/L	1	2	1.8	0.65	1.3
Total PFHxS		1100	ng/L	1	2	1.8	0.11	1.3
PFMBA	U	2.7	ng/L	1	4	3.6	1.4	2.7
PFMPA	U	2.7	ng/L	1	4	3.6	1.2	2.7
PFNA		7.6	ng/L	1	2	1.8	0.64	1.3
PFNS	U	1.3	ng/L	1	2	1.8	0.41	1.3
PFOA		190	ng/L	1	2	1.8	0.81	1.3
PFOS	E	1300	ng/L	1	2	1.8	0.70	1.3
PFOSA		24	ng/L	1	2	1.8	0.84	1.3

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Report of Analytical Results

SDG: SQ5564
Lab ID: SQ5564-1
Client ID: DOW-PFAS-1012
Matrix: AQ
Lab File ID: 1LC00771

Sample Date: 12-OCT-23
Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Report Date: 09-NOV-23
Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PFPeA		86	ng/L	1	4	3.6	1.2	2.7
PFPeS		160	ng/L	1	2	1.8	0.62	1.3
PFTeDA	U	1.3	ng/L	1	2	1.8	0.45	1.3
PFTrDA	U	1.3	ng/L	1	2	1.8	0.69	1.3
PFUnA	U	1.3	ng/L	1	2	1.8	0.98	1.3
M-4:2 FTS-13C2		153.	%					
M-6:2 FTS-13C2		83.0	%					
M-8:2 FTS-13C2		106.	%					
M-GenX-13C3 (HFPO-DA)		73.1	%					
M-NEtFOSAA-D5		114.	%					
M-NEtFOSA-D5		60.2	%					
M-NEtFOSE-D9		62.4	%					
M-NMeFOSAA-D3		102.	%					
M-NMeFOSA-D3		70.3	%					
M-NMeFOSE-D7		65.7	%					
M-PFBA-13C4		103.	%					
M-PFBS-13C3		84.8	%					
M-PFDA-13C6		85.1	%					
M-PFDoA-13C2		72.6	%					
M-PFHpA-13C4		90.5	%					
M-PFHxA-13C5		84.9	%					
M-PFHxS-13C3		80.6	%					
M-PFNA-13C9		89.6	%					
M-PFOA-13C8		88.0	%					
M-PFOS-13C8		85.5	%					
M-PFOSA-13C8		85.1	%					
M-PFPeA-13C5		93.6	%					
M-PFTeDA-13C2		52.7	%					
M-PFUnA-13C7		91.3	%					

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Report of Analytical Results

SDG: SQ5564
Lab ID: SQ5564-1DL
Client ID: DOW-PFAS-1012
Matrix: AQ
Lab File ID: 1LC00793

Sample Date: 12-OCT-23
Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Report Date: 09-NOV-23
Analysis Date: 06-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
11Cl-PF3OUdS	U	21	ng/L	4	8	29.	2.1	21.
3:3FTCA	UL	27	ng/L	4	10	36.	5.0	27.
4:2 FTS	U	21	ng/L	4	8	29.	9.3	21.
5:3FTCA	UL	130	ng/L	4	50	180	72.	130
6:2 FTS		190	ng/L	4	8	29.	10.	21.
7:3FTCA	UL	130	ng/L	4	50	180	72.	130
8:2 FTS	U	21	ng/L	4	8	29.	9.6	21.
9Cl-PF3ONS	U	21	ng/L	4	8	29.	4.6	21.
ADONA	UL	21	ng/L	4	8	29.	9.6	21.
GenX (HFPO-DA)	UL	21	ng/L	4	8	29.	12.	21.
NEtFOSA	UL	5.4	ng/L	4	2	7.2	2.9	5.4
NEtFOSAA	U	5.4	ng/L	4	2	7.2	2.7	5.4
NEtFOSE	U	54	ng/L	4	20	72.	27.	54.
NFDHA	U	11	ng/L	4	4	14.	6.1	11.
NMeFOSA	UL	5.4	ng/L	4	2	7.2	2.9	5.4
NMeFOSAA	U	5.4	ng/L	4	2	7.2	2.7	5.4
NMeFOSE	U	54	ng/L	4	20	72.	39.	54.
PFBA		37	ng/L	4	8	29.	8.9	21.
PFBS		120	ng/L	4	2	7.2	1.8	5.4
PFDA	U	5.4	ng/L	4	2	7.2	2.3	5.4
PFDoA	U	5.4	ng/L	4	2	7.2	3.9	5.4
PFDoS	U	5.4	ng/L	4	2	7.2	1.4	5.4
PFDS	U	5.4	ng/L	4	2	7.2	1.5	5.4
PFEESA	U	11	ng/L	4	4	14.	4.3	11.
PFHpA		46	ng/L	4	2	7.2	2.0	5.4
PFHpS		49	ng/L	4	2	7.2	3.0	5.4
PFHxA		220	ng/L	4	2	7.2	2.6	5.4
Total PFHxS		1100	ng/L	4	2	7.2	0.43	5.4
PFMBA	U	11	ng/L	4	4	14.	5.7	11.
PFMPA	U	11	ng/L	4	4	14.	4.6	11.
PFNA		8.1	ng/L	4	2	7.2	2.6	5.4
PFNS	U	5.4	ng/L	4	2	7.2	1.6	5.4
PFOA		190	ng/L	4	2	7.2	3.2	5.4
PFOS		1600	ng/L	4	2	7.2	2.8	5.4
PFOSA		24	ng/L	4	2	7.2	3.4	5.4

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Report of Analytical Results

SDG: SQ5564
Lab ID: SQ5564-1DL
Client ID: DOW-PFAS-1012
Matrix: AQ
Lab File ID: 1LC00793

Sample Date: 12-OCT-23
Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Report Date: 09-NOV-23
Analysis Date: 06-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PFPeA		83	ng/L	4	4	14.	5.0	11.
PFPeS		150	ng/L	4	2	7.2	2.5	5.4
PFTeDA	U	5.4	ng/L	4	2	7.2	1.8	5.4
PFTrDA	U	5.4	ng/L	4	2	7.2	2.8	5.4
PFUnA	U	5.4	ng/L	4	2	7.2	3.9	5.4
M-4:2 FTS-13C2	*	19.3	%					
M-6:2 FTS-13C2	*	18.3	%					
M-8:2 FTS-13C2	*	16.7	%					
M-GenX-13C3 (HFPO-DA)	*	18.4	%					
M-NEtFOSAA-D5		17.9	%					
M-NEtFOSA-D5		14.6	%					
M-NEtFOSE-D9		14.6	%					
M-NMeFOSAA-D3	*	21.5	%					
M-NMeFOSA-D3		16.9	%					
M-NMeFOSE-D7		15.6	%					
M-PFBA-13C4		100.	%					
M-PFBS-13C3	*	18.8	%					
M-PFDA-13C6	*	19.3	%					
M-PFDoA-13C2		15.1	%					
M-PFHpA-13C4	*	19.0	%					
M-PFHxA-13C5	*	19.6	%					
M-PFHxS-13C3	*	19.2	%					
M-PFNA-13C9	*	18.2	%					
M-PFOA-13C8	*	19.9	%					
M-PFOS-13C8	*	18.5	%					
M-PFOSA-13C8	*	20.7	%					
M-PFPeA-13C5	*	19.4	%					
M-PFTeDA-13C2		11.7	%					
M-PFUnA-13C7	*	17.6	%					

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Report of Analytical Results

SDG: SQ5564
Lab ID: SQ5564-2RA
Client ID: DOW-PFAS-1012
Matrix: SL
Lab File ID: 1LC00790

Sample Date: 12-OCT-23
Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Report Date: 09-NOV-23
Analysis Date: 06-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: 78.

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
11Cl-PF3OUdS	U	0.60	ng/g	1	.8	0.80	0.12	0.60
3:3FTCA	U	0.75	ng/g	1	1	1.0	0.27	0.75
4:2 FTS	U	0.60	ng/g	1	.8	0.80	0.31	0.60
5:3FTCA	U	3.7	ng/g	1	5	5.0	0.72	3.7
6:2 FTS		50	ng/g	1	.8	0.80	0.35	0.60
7:3FTCA	U	3.7	ng/g	1	5	5.0	0.41	3.7
8:2 FTS	U	0.60	ng/g	1	.8	0.80	0.30	0.60
9Cl-PF3ONS	U	0.60	ng/g	1	.8	0.80	0.20	0.60
ADONA	U	0.60	ng/g	1	.8	0.80	0.30	0.60
GenX (HFPO-DA)	U	6.0	ng/g	1	.8	0.80	0.33	6.0
NEtFOSA	U	0.15	ng/g	1	.2	0.20	0.079	0.15
NEtFOSAA	U	0.15	ng/g	1	.2	0.20	0.066	0.15
NEtFOSE	U	1.5	ng/g	1	2	2.0	0.79	1.5
NFDHA	U	0.30	ng/g	1	.4	0.40	0.18	0.30
NMeFOSA	U	0.15	ng/g	1	.2	0.20	0.078	0.15
NMeFOSAA	U	0.15	ng/g	1	.2	0.20	0.080	0.15
NMeFOSE	U	1.5	ng/g	1	2	2.0	1.1	1.5
PFBA	U	0.60	ng/g	1	.8	0.80	0.31	0.60
PFBS	U	0.15	ng/g	1	.2	0.20	0.070	0.15
PFDA	U	0.15	ng/g	1	.2	0.20	0.073	0.15
PFDoA	U	0.15	ng/g	1	.2	0.20	0.095	0.15
PFDoS	U	0.15	ng/g	1	.2	0.20	0.039	0.15
PFDS	U	0.15	ng/g	1	.2	0.20	0.049	0.15
PFEESA	U	0.30	ng/g	1	.4	0.40	0.12	0.30
PFHpA	U	0.15	ng/g	1	.2	0.20	0.094	0.15
PFHpS	U	0.15	ng/g	1	.2	0.20	0.074	0.15
PFHxA		0.33	ng/g	1	.2	0.20	0.079	0.15
Total PFHxS		1.0	ng/g	1	.2	0.20	0.013	0.15
PFMBA	U	0.30	ng/g	1	.4	0.40	0.16	0.30
PFMPA	U	0.30	ng/g	1	.4	0.40	0.14	0.30
PFNA	U	0.15	ng/g	1	.2	0.20	0.070	0.15
PFNS	U	0.15	ng/g	1	.2	0.20	0.049	0.15
PFOA		0.38	ng/g	1	.2	0.20	0.11	0.15
PFOS		4.8	ng/g	1	.2	0.20	0.077	0.15
PFOSA	J	0.13	ng/g	1	.2	0.20	0.086	0.15

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Report of Analytical Results

SDG: SQ5564
Lab ID: SQ5564-2RA
Client ID: DOW-PFAS-1012
Matrix: SL
Lab File ID: 1LC00790

Sample Date: 12-OCT-23
Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Report Date: 09-NOV-23
Analysis Date: 06-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: 78.

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PFPeA	U	0.30	ng/g	1	.4	0.40	0.18	0.30
PFPeS	U	0.15	ng/g	1	.2	0.20	0.083	0.15
PFTeDA	U	0.15	ng/g	1	.2	0.20	0.080	0.15
PFTrDA	U	0.15	ng/g	1	.2	0.20	0.11	0.15
PFUnA	U	0.15	ng/g	1	.2	0.20	0.11	0.15
M-4:2 FTS-13C2		40.2	%					
M-6:2 FTS-13C2		44.1	%					
M-8:2 FTS-13C2		48.6	%					
M-GenX-13C3 (HFPO-DA)		46.5	%					
M-NEtFOSAA-D5		55.8	%					
M-NEtFOSA-D5		30.5	%					
M-NEtFOSE-D9		31.8	%					
M-NMeFOSAA-D3		53.0	%					
M-NMeFOSA-D3		35.5	%					
M-NMeFOSE-D7		35.7	%					
M-PFBA-13C4		99.8	%					
M-PFBS-13C3		42.8	%					
M-PFDA-13C6		55.1	%					
M-PFDoA-13C2		39.8	%					
M-PFHpA-13C4		51.3	%					
M-PFHxA-13C5		48.4	%					
M-PFHxS-13C3		48.4	%					
M-PFNA-13C9		50.2	%					
M-PFOA-13C8		54.6	%					
M-PFOS-13C8		49.4	%					
M-PFOSA-13C8		50.9	%					
M-PFPeA-13C5		45.8	%					
M-PFTeDA-13C2		29.2	%					
M-PFUnA-13C7		47.6	%					

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Report of Analytical Results

SDG: SQ5564
Lab ID: SQ5564-3
Client ID: DOW-SWC-01
Matrix: SL
Lab File ID: 1LC00773

Sample Date: 21-SEP-23
Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Report Date: 09-NOV-23
Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: 80.

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
11Cl-PF3OUdS	U	0.60	ng/g	1	.8	0.80	0.12	0.60
3:3FTCA	U	0.75	ng/g	1	1	1.0	0.27	0.75
4:2 FTS	U	0.60	ng/g	1	.8	0.80	0.31	0.60
5:3FTCA	U	3.7	ng/g	1	5	5.0	0.72	3.7
6:2 FTS	U	0.60	ng/g	1	.8	0.80	0.35	0.60
7:3FTCA	U	3.7	ng/g	1	5	5.0	0.41	3.7
8:2 FTS	U	0.60	ng/g	1	.8	0.80	0.30	0.60
9Cl-PF3ONS	U	0.60	ng/g	1	.8	0.80	0.20	0.60
ADONA	U	0.60	ng/g	1	.8	0.80	0.30	0.60
GenX (HFPO-DA)	U	6.0	ng/g	1	.8	0.80	0.33	6.0
NEtFOSA	U	0.15	ng/g	1	.2	0.20	0.079	0.15
NEtFOSAA	U	0.15	ng/g	1	.2	0.20	0.066	0.15
NEtFOSE	U	1.5	ng/g	1	2	2.0	0.79	1.5
NFDHA	U	0.30	ng/g	1	.4	0.40	0.18	0.30
NMeFOSA	U	0.15	ng/g	1	.2	0.20	0.078	0.15
NMeFOSAA	U	0.15	ng/g	1	.2	0.20	0.080	0.15
NMeFOSE	U	1.5	ng/g	1	2	2.0	1.1	1.5
PFBA	U	0.60	ng/g	1	.8	0.80	0.31	0.60
PFBS	J	0.073	ng/g	1	.2	0.20	0.070	0.15
PFDA	U	0.15	ng/g	1	.2	0.20	0.073	0.15
PFDoA	U	0.15	ng/g	1	.2	0.20	0.095	0.15
PFDoS	U	0.15	ng/g	1	.2	0.20	0.039	0.15
PFDS	U	0.15	ng/g	1	.2	0.20	0.049	0.15
PFEESA	U	0.30	ng/g	1	.4	0.40	0.12	0.30
PFHpA	U	0.15	ng/g	1	.2	0.20	0.094	0.15
PFHpS	U	0.15	ng/g	1	.2	0.20	0.074	0.15
PFHxA	J	0.19	ng/g	1	.2	0.20	0.079	0.15
Total PFHxS		1.0	ng/g	1	.2	0.20	0.013	0.15
PFMBA	U	0.30	ng/g	1	.4	0.40	0.16	0.30
PFMPA	U	0.30	ng/g	1	.4	0.40	0.14	0.30
PFNA	U	0.15	ng/g	1	.2	0.20	0.070	0.15
PFNS	U	0.15	ng/g	1	.2	0.20	0.049	0.15
PFOA	J	0.17	ng/g	1	.2	0.20	0.11	0.15
PFOS		2.8	ng/g	1	.2	0.20	0.077	0.15
PFOSA	J	0.088	ng/g	1	.2	0.20	0.086	0.15

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Report of Analytical Results

SDG: SQ5564
Lab ID: SQ5564-3
Client ID: DOW-SWC-01
Matrix: SL
Lab File ID: 1LC00773

Sample Date: 21-SEP-23
Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Report Date: 09-NOV-23
Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: 80.

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PFPeA	U	0.30	ng/g	1	.4	0.40	0.18	0.30
PFPeS	J	0.085	ng/g	1	.2	0.20	0.083	0.15
PFTeDA	U	0.15	ng/g	1	.2	0.20	0.080	0.15
PFTrDA	U	0.15	ng/g	1	.2	0.20	0.11	0.15
PFUnA	U	0.15	ng/g	1	.2	0.20	0.11	0.15
M-4:2 FTS-13C2		46.9	%					
M-6:2 FTS-13C2		51.2	%					
M-8:2 FTS-13C2		49.0	%					
M-GenX-13C3 (HFPO-DA)		49.9	%					
M-NEtFOSAA-D5		65.2	%					
M-NEtFOSA-D5		30.3	%					
M-NEtFOSE-D9		40.1	%					
M-NMeFOSAA-D3		49.6	%					
M-NMeFOSA-D3		34.2	%					
M-NMeFOSE-D7		39.7	%					
M-PFBA-13C4		100.	%					
M-PFBS-13C3		46.0	%					
M-PFDA-13C6		54.4	%					
M-PFDoA-13C2		43.7	%					
M-PFHpA-13C4		51.4	%					
M-PFHxA-13C5		50.8	%					
M-PFHxS-13C3		49.0	%					
M-PFNA-13C9		55.5	%					
M-PFOA-13C8		53.5	%					
M-PFOS-13C8		49.6	%					
M-PFOSA-13C8		47.1	%					
M-PFPeA-13C5		51.7	%					
M-PFTeDA-13C2		38.5	%					
M-PFUnA-13C7		52.4	%					

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Method Blank Summary

Lab Name : Katahdin Analytical Services
Lab File ID : 1LC00765
Instrument ID : LCMS-1
Matrix : AQ
Extraction method : 1633

SDG : SQ5564
Lab Sample ID : WG344492-1
Date Extracted : 27-OCT-23
Date Analyzed : 02-NOV-23
Time Analyzed : 18:01

This Method Blank applies to the following samples and QC samples:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG344492-2	1LC00766	11/02/23	18:14
Laboratory Control S	WG344492-3	1LC00767	11/02/23	18:27
DOW-PFAS-1012	SQ5564-1	1LC00771	11/02/23	19:17
DOW-PFAS-1012	SQ5564-1DL	1LC00793	11/06/23	20:59

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Report of Analytical Results

SDG: SQ5564
Lab ID: WG344492-1
Client ID: Method Blank
Matrix: AQ
Lab File ID: 1LC00765

Sample Date: N/A
Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Report Date: 09-NOV-23
Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
11Cl-PF3OUdS	U	6.0	ng/L	1	8	8.0	0.60	6.0
3:3FTCA	U	7.5	ng/L	1	10	10.	1.4	7.5
4:2 FTS	U	6.0	ng/L	1	8	8.0	2.6	6.0
5:3FTCA	U	38	ng/L	1	50	50.	20.	38.
6:2 FTS	U	6.0	ng/L	1	8	8.0	2.8	6.0
7:3FTCA	U	38	ng/L	1	50	50.	20.	38.
8:2 FTS	U	6.0	ng/L	1	8	8.0	2.7	6.0
9Cl-PF3ONS	U	6.0	ng/L	1	8	8.0	1.3	6.0
ADONA	U	6.0	ng/L	1	8	8.0	2.7	6.0
GenX (HFPO-DA)	U	6.0	ng/L	1	8	8.0	3.3	6.0
NEtFOSA	U	1.5	ng/L	1	2	2.0	0.82	1.5
NEtFOSAA	U	1.5	ng/L	1	2	2.0	0.75	1.5
NEtFOSE	U	15	ng/L	1	20	20.	7.6	15.
NFDHA	U	3.0	ng/L	1	4	4.0	1.7	3.0
NMeFOSA	U	1.5	ng/L	1	2	2.0	0.80	1.5
NMeFOSAA	U	1.5	ng/L	1	2	2.0	0.75	1.5
NMeFOSE	U	15	ng/L	1	20	20.	11.	15.
PFBA	U	6.0	ng/L	1	8	8.0	2.5	6.0
PFBS	U	1.5	ng/L	1	2	2.0	0.51	1.5
PFDA	U	1.5	ng/L	1	2	2.0	0.64	1.5
PFDoA	U	1.5	ng/L	1	2	2.0	1.1	1.5
PFDoS	U	1.5	ng/L	1	2	2.0	0.40	1.5
PFDS	U	1.5	ng/L	1	2	2.0	0.41	1.5
PFEESA	U	3.0	ng/L	1	4	4.0	1.2	3.0
PFHpA	U	1.5	ng/L	1	2	2.0	0.56	1.5
PFHpS	U	1.5	ng/L	1	2	2.0	0.85	1.5
PFHxA	U	1.5	ng/L	1	2	2.0	0.73	1.5
Total PFHxS	U	1.5	ng/L	1	2	2.0	0.12	1.5
PFMBA	U	3.0	ng/L	1	4	4.0	1.6	3.0
PFMPA	U	3.0	ng/L	1	4	4.0	1.3	3.0
PFNA	U	1.5	ng/L	1	2	2.0	0.72	1.5
PFNS	U	1.5	ng/L	1	2	2.0	0.46	1.5
PFOA	U	1.5	ng/L	1	2	2.0	0.91	1.5
PFOS	U	1.5	ng/L	1	2	2.0	0.78	1.5
PFOSA	U	1.5	ng/L	1	2	2.0	0.94	1.5

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Report of Analytical Results

SDG: SQ5564
Lab ID: WG344492-1
Client ID: Method Blank
Matrix: AQ
Lab File ID: 1LC00765

Sample Date: N/A
Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Report Date: 09-NOV-23
Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PFPeA	U	3.0	ng/L	1	4	4.0	1.4	3.0
PFPeS	U	1.5	ng/L	1	2	2.0	0.70	1.5
PFTeDA	U	1.5	ng/L	1	2	2.0	0.50	1.5
PFTrDA	U	1.5	ng/L	1	2	2.0	0.77	1.5
PFUnA	U	1.5	ng/L	1	2	2.0	1.1	1.5
M-4:2 FTS-13C2		105.	%					
M-6:2 FTS-13C2		96.6	%					
M-8:2 FTS-13C2		110.	%					
M-GenX-13C3 (HFPO-DA)		98.5	%					
M-NEtFOSAA-D5		185.	%					
M-NEtFOSA-D5		63.0	%					
M-NEtFOSE-D9		82.8	%					
M-NMeFOSAA-D3		113.	%					
M-NMeFOSA-D3		73.4	%					
M-NMeFOSE-D7		90.6	%					
M-PFBA-13C4		101.	%					
M-PFBS-13C3		87.4	%					
M-PFDA-13C6		97.6	%					
M-PFDoA-13C2		102.	%					
M-PFHpA-13C4		104.	%					
M-PFHxA-13C5		103.	%					
M-PFHxS-13C3		94.9	%					
M-PFNA-13C9		102.	%					
M-PFOA-13C8		101.	%					
M-PFOS-13C8		90.5	%					
M-PFOSA-13C8		105.	%					
M-PFPeA-13C5		104.	%					
M-PFTeDA-13C2		97.2	%					
M-PFUnA-13C7		97.6	%					

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LCS Recovery Report

Lab ID: WG344492-2
Client ID: LCS1
SDG: SQ5564
LCS File ID: 1LC00766
Report Date: 09-NOV-23

Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: AQ

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
11Cl-PF3OUdS	110.	15.120	16.6	ng/L	36-158
3:3FTCA	113.	20.000	22.6	ng/L	32-161
4:2 FTS	112.	15.008	16.7	ng/L	52-158
5:3FTCA	116.	100.00	116.	ng/L	39-156
6:2 FTS	118.	15.200	17.9	ng/L	48-158
7:3FTCA	116.	100.00	116.	ng/L	36-149
8:2 FTS	107.	15.360	16.5	ng/L	46-165
9Cl-PF3ONS	124.	14.960	18.5	ng/L	44-167
ADONA	141.	15.120	21.3	ng/L	61-148
GenX (HFPO-DA)	124.	16.000	19.8	ng/L	58-154
NEtFOSA	106.	4.0000	4.23	ng/L	49-156
NEtFOSAA	108.	4.0000	4.32	ng/L	51-154
NEtFOSE	107.	40.000	42.8	ng/L	60-147
NFDHA	95.1	8.0000	7.61	ng/L	47-160
NMeFOSA	110.	4.0000	4.42	ng/L	54-155
NMeFOSAA	108.	4.0000	4.32	ng/L	32-160
NMeFOSE	112.	40.000	44.6	ng/L	56-151
PFBA	110.	16.000	17.6	ng/L	44-157
PFBS	119.	3.5480	4.21	ng/L	63-145
PFDA	110.	4.0000	4.42	ng/L	43-158
PFDoA	112.	4.0000	4.50	ng/L	60-141
PFDoS	98.6	3.8800	3.82	ng/L	30-138
PFDS	106.	3.8600	4.10	ng/L	50-144
PFEESA	119.	7.1200	8.44	ng/L	56-144
PFHpA	111.	4.0000	4.46	ng/L	56-150
PFHpS	105.	3.8120	4.01	ng/L	51-150
PFHxA	110.	4.0000	4.41	ng/L	62-149
Total PFHxS	113.	3.656	4.14	ng/L	44-158
PFMBA	110.	8.0000	8.78	ng/L	49-154
PFMPA	106.	8.0000	8.47	ng/L	48-150
PFNA	110.	4.0000	4.39	ng/L	53-157
PFNS	104.	3.8480	4.01	ng/L	46-151
PFOA	111.	4.0000	4.46	ng/L	57-161
PFOS	101.	3.7120	3.74	ng/L	43-162
PFOSA	103.	4.0000	4.11	ng/L	47-163
PFPeA	112.	8.0000	8.96	ng/L	57-148

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LCS Recovery Report

Lab ID: WG344492-2
Client ID: LCS1
SDG: SQ5564
LCS File ID: 1LC00766
Report Date: 09-NOV-23

Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: AQ

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
PFPeS	111.	3.7640	4.17	ng/L	58-144
PFTeDA	118.	4.0000	4.71	ng/L	52-156
PFTrDA	115.	4.0000	4.62	ng/L	52-140
PFUnA	112.	4.0000	4.48	ng/L	50-155
M-4:2 FTS-13C2	87.7				60-200
M-6:2 FTS-13C2	90.0				60-200
M-8:2 FTS-13C2	84.6				50-200
M-GenX-13C3 (HFPO-DA)	76.6				25-160
M-NEtFOSAA-D5	109.				10-200
M-NEtFOSA-D5	58.7				10-130
M-NEtFOSE-D9	72.0				10-150
M-NMeFOSAA-D3	80.9				45-200
M-NMeFOSA-D3	68.4				15-130
M-NMeFOSE-D7	71.3				10-150
M-PFBA-13C4	101.				10-130
M-PFBS-13C3	82.0				55-150
M-PFDA-13C6	84.5				50-140
M-PFDoA-13C2	84.0				10-150
M-PFHpA-13C4	86.8				55-150
M-PFHxA-13C5	86.3				55-150
M-PFHxS-13C3	84.3				55-150
M-PFNA-13C9	88.5				55-140
M-PFOA-13C8	86.0				60-140
M-PFOS-13C8	85.1				45-140
M-PFOSA-13C8	79.2				30-130
M-PFPeA-13C5	89.4				35-150
M-PFTeDA-13C2	75.0				10-130
M-PFUnA-13C7	91.2				30-140

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LCS Recovery Report

Lab ID: WG344492-3
Client ID: LCS2
SDG: SQ5564
LCS File ID: 1LC00767
Report Date: 09-NOV-23

Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: AQ

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
11Cl-PF3OUdS	139.	94.500	132.	ng/L	46-156
3:3FTCA	* 135.	125.00	169.	ng/L	62-129
4:2 FTS	136.	93.800	128.	ng/L	67-146
5:3FTCA	* 138.	625.00	865.	ng/L	63-134
6:2 FTS	140.	95.000	134.	ng/L	61-151
7:3FTCA	* 139.	625.00	868.	ng/L	50-138
8:2 FTS	141.	96.000	135.	ng/L	63-152
9Cl-PF3ONS	145.	93.500	136.	ng/L	56-156
ADONA	* 159.	94.500	151.	ng/L	68-146
GenX (HFPO-DA)	* 147.	100.00	147.	ng/L	63-144
NEtFOSA	* 149.	25.000	37.4	ng/L	65-139
NEtFOSAA	139.	25.000	34.7	ng/L	59-146
NEtFOSE	134.	250.00	336.	ng/L	69-137
NFDHA	137.	50.000	68.7	ng/L	48-161
NMeFOSA	* 151.	25.000	37.7	ng/L	63-145
NMeFOSAA	141.	25.000	35.3	ng/L	58-144
NMeFOSE	129.	250.00	323.	ng/L	71-136
PFBA	139.	100.00	139.	ng/L	58-148
PFBS	142.	22.175	31.5	ng/L	62-144
PFDA	134.	25.000	33.6	ng/L	52-147
PFDoA	142.	25.000	35.4	ng/L	64-142
PFDoS	123.	24.250	29.9	ng/L	36-145
PFDS	134.	24.125	32.5	ng/L	51-147
PFEESA	144.	44.500	63.8	ng/L	56-151
PFHpA	140.	25.000	35.1	ng/L	54-154
PFHpS	132.	23.825	31.4	ng/L	55-152
PFHxA	134.	25.000	33.6	ng/L	55-152
Total PFHxS	137.	22.85	31.2	ng/L	57-146
PFMBA	143.	50.000	71.4	ng/L	55-148
PFMPA	135.	50.000	67.6	ng/L	51-145
PFNA	134.	25.000	33.5	ng/L	59-149
PFNS	136.	24.050	32.6	ng/L	52-148
PFOA	134.	25.000	33.6	ng/L	52-161
PFOS	130.	23.200	30.2	ng/L	58-149
PFOSA	129.	25.000	32.3	ng/L	61-148
PFPeA	142.	50.000	71.0	ng/L	54-152

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LCS Recovery Report

Lab ID: WG344492-3
Client ID: LCS2
SDG: SQ5564
LCS File ID: 1LC00767
Report Date: 09-NOV-23

Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: AQ

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
PFPeS	135.	23.525	31.9	ng/L	59-151
PFTeDA	147.	25.000	36.8	ng/L	47-161
PFTrDA	148.	25.000	37.0	ng/L	49-148
PFUnA	143.	25.000	35.9	ng/L	48-159
M-4:2 FTS-13C2	77.6				60-200
M-6:2 FTS-13C2	81.5				60-200
M-8:2 FTS-13C2	76.7				50-200
M-GenX-13C3 (HFPO-DA)	76.9				25-160
M-NEtFOSAA-D5	110.				10-200
M-NEtFOSA-D5	53.9				10-130
M-NEtFOSE-D9	70.2				10-150
M-NMeFOSAA-D3	75.2				45-200
M-NMeFOSA-D3	62.2				15-130
M-NMeFOSE-D7	69.9				10-150
M-PFBA-13C4	100.				10-130
M-PFBS-13C3	77.6				55-150
M-PFDA-13C6	80.1				50-140
M-PFDoA-13C2	77.0				10-150
M-PFHpA-13C4	80.4				55-150
M-PFHxA-13C5	82.0				55-150
M-PFHxS-13C3	79.9				55-150
M-PFNA-13C9	82.4				55-140
M-PFOA-13C8	81.0				60-140
M-PFOS-13C8	80.5				45-140
M-PFOSA-13C8	74.8				30-130
M-PFPeA-13C5	83.2				35-150
M-PFTeDA-13C2	67.9				10-130
M-PFUnA-13C7	79.8				30-140

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Method Blank Summary

Lab Name : Katahdin Analytical Services
Lab File ID : 1LC00768
Instrument ID : LCMS-1
Matrix : SL
Extraction method : 1633

SDG : SQ5564
Lab Sample ID : WG344384-1
Date Extracted : 25-OCT-23
Date Analyzed : 02-NOV-23
Time Analyzed : 18:39

This Method Blank applies to the following samples and QC samples:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG344384-2	1LC00769	11/02/23	18:52
Laboratory Control S	WG344384-3	1LC00770	11/02/23	19:05
DOW-SWC-01	SQ5564-3	1LC00773	11/02/23	19:43
Sample Duplicate	WG344384-4	1LC00774	11/02/23	19:55
DOW-PFAS-1012	SQ5564-2RA	1LC00790	11/06/23	19:30

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Report of Analytical Results

SDG: SQ5564
Lab ID: WG344384-1
Client ID: Method Blank
Matrix: SL
Lab File ID: 1LC00768

Sample Date: N/A
Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Report Date: 09-NOV-23
Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
11Cl-PF3OUdS	U	0.60	ng/g	1	.8	0.80	0.12	0.60
3:3FTCA	U	0.75	ng/g	1	1	1.0	0.27	0.75
4:2 FTS	U	0.60	ng/g	1	.8	0.80	0.32	0.60
5:3FTCA	U	3.8	ng/g	1	5	5.0	0.72	3.8
6:2 FTS	U	0.60	ng/g	1	.8	0.80	0.35	0.60
7:3FTCA	U	3.8	ng/g	1	5	5.0	0.41	3.8
8:2 FTS	U	0.60	ng/g	1	.8	0.80	0.30	0.60
9Cl-PF3ONS	U	0.60	ng/g	1	.8	0.80	0.20	0.60
ADONA	U	0.60	ng/g	1	.8	0.80	0.30	0.60
GenX (HFPO-DA)	U	6.0	ng/g	1	.8	0.80	0.33	6.0
NEtFOSA	U	0.15	ng/g	1	.2	0.20	0.079	0.15
NEtFOSAA	U	0.15	ng/g	1	.2	0.20	0.066	0.15
NEtFOSE	U	1.5	ng/g	1	2	2.0	0.79	1.5
NFDHA	U	0.30	ng/g	1	.4	0.40	0.18	0.30
NMeFOSA	U	0.15	ng/g	1	.2	0.20	0.078	0.15
NMeFOSAA	U	0.15	ng/g	1	.2	0.20	0.080	0.15
NMeFOSE	U	1.5	ng/g	1	2	2.0	1.1	1.5
PFBA	U	0.60	ng/g	1	.8	0.80	0.31	0.60
PFBS	U	0.15	ng/g	1	.2	0.20	0.070	0.15
PFDA	U	0.15	ng/g	1	.2	0.20	0.073	0.15
PFDoA	U	0.15	ng/g	1	.2	0.20	0.095	0.15
PFDoS	U	0.15	ng/g	1	.2	0.20	0.039	0.15
PFDS	U	0.15	ng/g	1	.2	0.20	0.049	0.15
PFEESA	U	0.30	ng/g	1	.4	0.40	0.12	0.30
PFHpA	U	0.15	ng/g	1	.2	0.20	0.094	0.15
PFHpS	U	0.15	ng/g	1	.2	0.20	0.074	0.15
PFHxA	U	0.15	ng/g	1	.2	0.20	0.079	0.15
Total PFHxS	U	0.15	ng/g	1	.2	0.20	0.013	0.15
PFMBA	U	0.30	ng/g	1	.4	0.40	0.16	0.30
PFMPA	U	0.30	ng/g	1	.4	0.40	0.14	0.30
PFNA	U	0.15	ng/g	1	.2	0.20	0.070	0.15
PFNS	U	0.15	ng/g	1	.2	0.20	0.049	0.15
PFOA	U	0.15	ng/g	1	.2	0.20	0.11	0.15
PFOS	U	0.15	ng/g	1	.2	0.20	0.077	0.15
PFOSA	U	0.15	ng/g	1	.2	0.20	0.086	0.15

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Report of Analytical Results

SDG: SQ5564
Lab ID: WG344384-1
Client ID: Method Blank
Matrix: SL
Lab File ID: 1LC00768

Sample Date: N/A
Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Report Date: 09-NOV-23
Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PFPeA	U	0.30	ng/g	1	.4	0.40	0.18	0.30
PFPeS	U	0.15	ng/g	1	.2	0.20	0.083	0.15
PFTeDA	U	0.15	ng/g	1	.2	0.20	0.080	0.15
PFTrDA	U	0.15	ng/g	1	.2	0.20	0.11	0.15
PFUnA	U	0.15	ng/g	1	.2	0.20	0.11	0.15
M-4:2 FTS-13C2		88.2	%					
M-6:2 FTS-13C2		87.2	%					
M-8:2 FTS-13C2		77.9	%					
M-GenX-13C3 (HFPO-DA)		90.8	%					
M-NEtFOSAA-D5		108.	%					
M-NEtFOSA-D5		39.7	%					
M-NEtFOSE-D9		66.7	%					
M-NMeFOSAA-D3		75.8	%					
M-NMeFOSA-D3		45.4	%					
M-NMeFOSE-D7		68.4	%					
M-PFBA-13C4		100.	%					
M-PFBS-13C3		85.3	%					
M-PFDA-13C6		87.9	%					
M-PFDoA-13C2		73.4	%					
M-PFHpA-13C4		92.8	%					
M-PFHxA-13C5		94.3	%					
M-PFHxS-13C3		86.6	%					
M-PFNA-13C9		90.1	%					
M-PFOA-13C8		91.6	%					
M-PFOS-13C8		80.4	%					
M-PFOSA-13C8		72.1	%					
M-PFPeA-13C5		97.4	%					
M-PFTeDA-13C2		69.4	%					
M-PFUnA-13C7		84.8	%					

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LCS Recovery Report

Lab ID: WG344384-2
Client ID: LCS1
SDG: SQ5564
LCS File ID: 1LC00769
Report Date: 09-NOV-23

Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: SL

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
11Cl-PF3OUdS	100.	1.5120	1.52	ng/g	40-150
3:3FTCA	108.	2.0000	2.16	ng/g	40-150
4:2 FTS	102.	1.5008	1.54	ng/g	40-150
5:3FTCA	111.	10.000	11.1	ng/g	40-150
6:2 FTS	127.	1.5200	1.93	ng/g	40-150
7:3FTCA	103.	10.000	10.3	ng/g	40-150
8:2 FTS	104.	1.5360	1.60	ng/g	40-150
9Cl-PF3ONS	111.	1.4960	1.66	ng/g	40-150
ADONA	119.	1.5120	1.80	ng/g	40-150
GenX (HFPO-DA)	107.	1.6000	1.71	ng/g	40-150
NEtFOSA	89.4	0.40000	0.358	ng/g	40-150
NEtFOSAA	99.2	0.40000	0.397	ng/g	40-150
NEtFOSE	100.	4.0000	4.00	ng/g	40-150
NFDHA	103.	0.80000	0.827	ng/g	40-150
NMeFOSA	90.8	0.40000	0.363	ng/g	40-150
NMeFOSAA	104.	0.40000	0.416	ng/g	40-150
NMeFOSE	102.	4.0000	4.08	ng/g	40-150
PFBA	103.	1.6000	1.66	ng/g	40-150
PFBS	107.	0.35480	0.381	ng/g	40-150
PFDA	103.	0.40000	0.412	ng/g	40-150
PFDoA	107.	0.40000	0.429	ng/g	40-150
PFDoS	94.4	0.38800	0.366	ng/g	40-150
PFDS	94.6	0.38600	0.365	ng/g	40-150
PFEESA	106.	0.71200	0.754	ng/g	40-150
PFHpA	106.	0.40000	0.424	ng/g	40-150
PFHpS	103.	0.38120	0.392	ng/g	40-150
PFHxA	103.	0.40000	0.413	ng/g	40-150
Total PFHxS	107.	0.3656	0.391	ng/g	40-150
PFMBA	104.	0.80000	0.837	ng/g	40-150
PFMPA	100.	0.80000	0.804	ng/g	40-150
PFNA	103.	0.40000	0.414	ng/g	40-150
PFNS	99.7	0.38480	0.384	ng/g	40-150
PFOA	104.	0.40000	0.414	ng/g	40-150
PFOS	103.	0.37120	0.383	ng/g	40-150
PFOSA	101.	0.40000	0.405	ng/g	40-150
PFPeA	106.	0.80000	0.850	ng/g	40-150

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LCS Recovery Report

Lab ID: WG344384-2
Client ID: LCS1
SDG: SQ5564
LCS File ID: 1LC00769
Report Date: 09-NOV-23

Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: SL

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
PFPeS	105.	0.37640	0.397	ng/g	40-150
PFTeDA	108.	0.40000	0.431	ng/g	40-150
PFTrDA	98.7	0.40000	0.395	ng/g	40-150
PFUnA	102.	0.40000	0.408	ng/g	40-150
M-4:2 FTS-13C2	73.6				20-150
M-6:2 FTS-13C2	76.2				20-150
M-8:2 FTS-13C2	67.7				20-150
M-GenX-13C3 (HFPO-DA)	70.4				20-150
M-NEtFOSAA-D5	108.				20-150
M-NEtFOSA-D5	36.9				20-150
M-NEtFOSE-D9	60.2				20-150
M-NMeFOSAA-D3	66.0				20-150
M-NMeFOSA-D3	42.2				20-150
M-NMeFOSE-D7	60.4				20-150
M-PFBA-13C4	100.				20-150
M-PFBS-13C3	71.6				20-150
M-PFDA-13C6	71.1				20-150
M-PFDoA-13C2	63.3				20-150
M-PFHpA-13C4	72.4				20-150
M-PFHxA-13C5	72.9				20-150
M-PFHxS-13C3	71.7				20-150
M-PFNA-13C9	72.9				20-150
M-PFOA-13C8	73.0				20-150
M-PFOS-13C8	70.6				20-150
M-PFOSA-13C8	63.3				20-150
M-PFPeA-13C5	75.1				20-150
M-PFTeDA-13C2	64.2				20-150
M-PFUnA-13C7	71.5				20-150

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LCS Recovery Report

Lab ID: WG344384-3
Client ID: LCS2
SDG: SQ5564
LCS File ID: 1LC00770
Report Date: 09-NOV-23

Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: SL

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
11Cl-PF3OUdS	100.	9.4500	9.47	ng/g	40-150
3:3FTCA	114.	12.500	14.2	ng/g	40-150
4:2 FTS	111.	9.3800	10.4	ng/g	40-150
5:3FTCA	114.	62.500	71.4	ng/g	40-150
6:2 FTS	111.	9.5000	10.5	ng/g	40-150
7:3FTCA	111.	62.500	69.6	ng/g	40-150
8:2 FTS	107.	9.6000	10.2	ng/g	40-150
9Cl-PF3ONS	110.	9.3500	10.3	ng/g	40-150
ADONA	126.	9.4500	11.9	ng/g	40-150
GenX (HFPO-DA)	119.	10.000	11.9	ng/g	40-150
NEtFOSA	103.	2.5000	2.58	ng/g	40-150
NEtFOSAA	114.	2.5000	2.84	ng/g	40-150
NEtFOSE	106.	25.000	26.6	ng/g	40-150
NFDHA	96.9	5.0000	4.84	ng/g	40-150
NMeFOSA	106.	2.5000	2.66	ng/g	40-150
NMeFOSAA	112.	2.5000	2.81	ng/g	40-150
NMeFOSE	104.	25.000	26.0	ng/g	40-150
PFBA	109.	10.000	10.9	ng/g	40-150
PFBS	109.	2.2175	2.42	ng/g	40-150
PFDA	107.	2.5000	2.67	ng/g	40-150
PFDoA	112.	2.5000	2.81	ng/g	40-150
PFDoS	94.7	2.4250	2.30	ng/g	40-150
PFDS	95.3	2.4125	2.30	ng/g	40-150
PFEESA	115.	4.4500	5.14	ng/g	40-150
PFHpA	111.	2.5000	2.78	ng/g	40-150
PFHpS	107.	2.3825	2.56	ng/g	40-150
PFHxA	109.	2.5000	2.72	ng/g	40-150
Total PFHxS	109.	2.285	2.50	ng/g	40-150
PFMBA	112.	5.0000	5.62	ng/g	40-150
PFMPA	108.	5.0000	5.39	ng/g	40-150
PFNA	110.	2.5000	2.74	ng/g	40-150
PFNS	101.	2.4050	2.44	ng/g	40-150
PFOA	106.	2.5000	2.65	ng/g	40-150
PFOS	103.	2.3200	2.39	ng/g	40-150
PFOSA	106.	2.5000	2.65	ng/g	40-150
PFPeA	113.	5.0000	5.63	ng/g	40-150

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LCS Recovery Report

Lab ID: WG344384-3
Client ID: LCS2
SDG: SQ5564
LCS File ID: 1LC00770
Report Date: 09-NOV-23

Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: SL

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
PFPeS	109.	2.3525	2.57	ng/g	40-150
PFTeDA	114.	2.5000	2.86	ng/g	40-150
PFTrDA	105.	2.5000	2.62	ng/g	40-150
PFUnA	114.	2.5000	2.84	ng/g	40-150
M-4:2 FTS-13C2	78.3				20-150
M-6:2 FTS-13C2	79.7				20-150
M-8:2 FTS-13C2	76.1				20-150
M-GenX-13C3 (HFPO-DA)	74.2				20-150
M-NEtFOSAA-D5	126.				20-150
M-NEtFOSA-D5	37.8				20-150
M-NEtFOSE-D9	60.3				20-150
M-NMeFOSAA-D3	71.0				20-150
M-NMeFOSA-D3	45.2				20-150
M-NMeFOSE-D7	59.8				20-150
M-PFBA-13C4	101.				20-150
M-PFBS-13C3	77.7				20-150
M-PFDA-13C6	74.3				20-150
M-PFDoA-13C2	65.9				20-150
M-PFHpA-13C4	78.6				20-150
M-PFHxA-13C5	78.4				20-150
M-PFHxS-13C3	79.2				20-150
M-PFNA-13C9	79.1				20-150
M-PFOA-13C8	79.0				20-150
M-PFOS-13C8	79.4				20-150
M-PFOSA-13C8	68.7				20-150
M-PFPeA-13C5	81.0				20-150
M-PFTeDA-13C2	64.8				20-150
M-PFUnA-13C7	72.7				20-150

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Sample Duplicate Report

Dup. ID: WG344384-4
Sample ID: SQ5564-3
Client ID: DOW-SWC-01
SDG: SQ5564
Dup. File ID: 1LC00774

Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384
Sample File ID: 1LC00773

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: SL **% Solids:** 80.
Report Date: 09-NOV-23

Compound	Dup. Result	Sample Result	Units	RPD (%)	Limits
11Cl-PF3OUdS	U0.59	U0.60	ng/g	NC	20
3:3FTCA	U0.73	U0.75	ng/g	NC	20
4:2 FTS	U0.59	U0.60	ng/g	NC	20
5:3FTCA	U3.7	U3.7	ng/g	NC	20
6:2 FTS	U0.59	U0.60	ng/g	NC	20
7:3FTCA	U3.7	U3.7	ng/g	NC	20
8:2 FTS	U0.59	U0.60	ng/g	NC	20
9Cl-PF3ONS	U0.59	U0.60	ng/g	NC	20
ADONA	U0.59	U0.60	ng/g	NC	20
GenX (HFPO-DA)	U5.9	U6.0	ng/g	NC	20
NEtFOSA	U0.15	U0.15	ng/g	NC	20
NEtFOSAA	U0.15	U0.15	ng/g	NC	20
NEtFOSE	U1.5	U1.5	ng/g	NC	20
NFDHA	U0.29	U0.30	ng/g	NC	20
NMeFOSA	U0.15	U0.15	ng/g	NC	20
NMeFOSAA	U0.15	U0.15	ng/g	NC	20
NMeFOSE	U1.5	U1.5	ng/g	NC	20
PFBA	U0.59	U0.60	ng/g	NC	20
PFBS	J0.082	J0.073	ng/g	12	20
PFDA	U0.15	U0.15	ng/g	NC	20
PFDoA	U0.15	U0.15	ng/g	NC	20
PFDoS	U0.15	U0.15	ng/g	NC	20
PFDS	U0.15	U0.15	ng/g	NC	20
PFEESA	U0.29	U0.30	ng/g	NC	20
PFHpA	J0.094	U0.15	ng/g	NC	20
PFHpS	U0.15	U0.15	ng/g	NC	20
PFHxA	0.33	J0.19	ng/g	56	20
Total PFHxS	1.2	1.0	ng/g	15	20
PFMBA	U0.29	U0.30	ng/g	NC	20
PFMPA	U0.29	U0.30	ng/g	NC	20
PFNA	U0.15	U0.15	ng/g	NC	20
PFNS	U0.15	U0.15	ng/g	NC	20
PFOA	0.36	J0.17	ng/g	73	20
PFOS	3.5	2.8	ng/g	20	20
PFOSA	J0.14	J0.088	ng/g	45	20
PFPeA	U0.29	U0.30	ng/g	NC	20

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Sample Duplicate Report

Dup. ID: WG344384-4
Sample ID: SQ5564-3
Client ID: DOW-SWC-01
SDG: SQ5564
Dup. File ID: 1LC00774

Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384
Sample File ID: 1LC00773

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: SL **% Solids:** 80.
Report Date: 09-NOV-23

Compound	Dup. Result	Sample Result	Units	RPD (%)	Limits
PFPeS	J0.10	J0.085	ng/g	20	20
PFTeDA	U0.15	U0.15	ng/g	NC	20
PFTrDA	U0.15	U0.15	ng/g	NC	20
PFUnA	U0.15	U0.15	ng/g	NC	20
M-4:2 FTS-13C2	48.5	46.9	%		20-150
M-6:2 FTS-13C2	49.5	51.2	%		20-150
M-8:2 FTS-13C2	49.7	49.0	%		20-150
M-GenX-13C3 (HFPO-DA)	46.4	49.9	%		20-150
M-NEtFOSAA-D5	81.4	65.2	%		20-150
M-NEtFOSA-D5	32.1	30.3	%		20-150
M-NEtFOSE-D9	45.4	40.1	%		20-150
M-NMeFOSAA-D3	49.0	49.6	%		20-150
M-NMeFOSA-D3	34.7	34.2	%		20-150
M-NMeFOSE-D7	44.6	39.7	%		20-150
M-PFBA-13C4	101.	100.	%		20-150
M-PFBS-13C3	46.9	46.0	%		20-150
M-PFDA-13C6	52.8	54.4	%		20-150
M-PFDoA-13C2	47.1	43.7	%		20-150
M-PFHpA-13C4	47.4	51.4	%		20-150
M-PFHxA-13C5	47.8	50.8	%		20-150
M-PFHxS-13C3	47.5	49.0	%		20-150
M-PFNA-13C9	54.7	55.5	%		20-150
M-PFOA-13C8	50.9	53.5	%		20-150
M-PFOS-13C8	50.9	49.6	%		20-150
M-PFOSA-13C8	46.0	47.1	%		20-150
M-PFPeA-13C5	48.6	51.7	%		20-150
M-PFTeDA-13C2	47.4	38.5	%		20-150
M-PFUnA-13C7	54.0	52.4	%		20-150

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Report of Analytical Results

Lab Sample ID: SQ5564-2
Client ID: DOW-PFAS-1012
SDG: SQ5564
Report Date: 25-OCT-23

Matrix	Date Sampled	Date Received
SL	12-OCT-23 07:55	12-OCT-23

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	78. %	1.0	1.0	1.0	SM2540G	WG344113	20-OCT-23 15:21	SM2540G	19-OCT-23	

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Report of Analytical Results

Lab Sample ID: SQ5564-3
Client ID: DOW-SWC-01
SDG: SQ5564
Report Date: 25-OCT-23

Matrix	Date Sampled	Date Received
SL	21-SEP-23 09:30	12-OCT-23

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	80. %	1.0	1.0	1.0	SM2540G	WG344113	20-OCT-23 15:21	SM2540G	19-OCT-23	

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Quality Control Report

Blank Sample Summary Report

Total Solids

QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	Units	LOQ	MDL	LOD
WG344113	SM2540G	20-OCT-23	19-OCT-23	100	%	1.0	1.0	1.0

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Cert No E87604

Quality Control Report

Laboratory Control Sample Summary Report

Total Solids

Laboratory Sample ID	Sample Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amount	Result	Recovery (%)	Acceptance Range	RPD
WG344113-2	LCS	WG344113	20-OCT-23	19-OCT-23	%	90	90.	100	90-110	
WG344113-3	LCSD	WG344113	20-OCT-23	19-OCT-23	%	90	90.	100	90-110	0

Katahdin Analytical Services, LLC. **Sample Receipt Condition Report**

Client: Mallett + Associates	KAS PM: HHM	Sampled By: Client
Project:	KIMS Entry By: MLV	Delivered By: Client
KAS Work Order#: SQ 5564	KIMS Review By: HHM	Received By: EP
	Labeled By: EP	
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 10/12/23

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		/			
2. Chain of Custody present in cooler?	/				
3. Chain of Custody signed by client?	/				
4. Chain of Custody matches samples?	/				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	/				Temp (°C): 1.7° Thermometer ID: IR-1
Samples received at <6 °C w/o freezing?	/				Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?	/				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	/				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				/	Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles: **Aqueous:** No bubble larger than a pea?				/	
Soil/Sediment: Received in airtight container?				/	
Received in methanol?				/	
Methanol covering soil?				/	
D.I. Water - Received within 48 hour HT?				/	
7. Trip Blank present in cooler?				/	
8. Proper sample containers and volume?	/				
9. Samples within hold time upon receipt?	/				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				/	
Sulfide - >9				/	
Cyanide – pH >12				/	
11. Bottleware Prepped on:					

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

QA-048 – Revision 8 – 09/11/2020

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CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client	Contact	Phone #	Fax #
Mabbett + Associates	M. Bloom	(781) 275 6050	( )

Address	City	State	Zip Code
105 Central St Suite 4100	Stoneham	MA	02180

Purchase Order #	Proj. Name / No.	Katahdin Quote #
2022057	DOW FUDS	

Bill (if different than above)	Address

Sampler (Print / Sign)	Copies To:

LAB USE ONLY

WORK ORDER #: SQ 5564

KATAHDIN PROJECT NUMBER _____

REMARKS: _____

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO: _____

TEMP°C _____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

★	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	ANALYSIS AND CONTAINER TYPE PRESERVATIVES: PFAS	EPA 1633	Moisture
	DOW-PFAS-1012	~~10-12~~ 10-12 / 755	W	4	X		
	DOW-PFAS-1012	10-12 / 755	S	2	X	X	
	DOW-SWC-01	9-21 / 930	S	1	X		
		/					
		/					
		/					
		/					
		/					
		/					
		/					
		/					
		/					
		/					
		/					
		/					
		/					

Filt. ☐Y ☐N

COMMENTS 2x 250 mL contain preservatives
PFAs results for 24 compounds

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Relinquished By: (Signature)	10-12 1400	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody (ln01)

Oct. 18, 2023
06:15 PM

Login Number: SQ5564

Account: MABBETT001
Mabbett & Associates Inc

Project: MABBETT-DOWAFB

Primary Report Address:
Helen Douglas
Mabbett & Associates, Inc.
105 Central Street
Suite 4100
Stonham, MA 02180-1260
USA
douglas@mabbett.com

Primary Invoice Address:
Accounts Payable
Mabbett & Associates Inc
105 Central Street
Suite 4100
Stoneham,MA 02180

accountspayable@mabbett.com

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming: MABBETT-DOWAFB

Login Information

ANALYSIS INSTRUCTIONS	:	DOD, ND to LOD w/ J flags. Use 2-4X detection limits. Need 24 compounds reported.
CHECK NO.	:	
CLIENT PO#	:	D01ME0004 02, R2022057.000
CLIENT PROJECT MANAGE	:	Stephen Vetere
CONTRACT	:	W912WJ-19-D-0005
COOLER TEMPERATURE	:	1.7
DELIVERY SERVICES	:	Client
EDD FORMAT	:	FUDSCHEM
ISM INSTRUCTIONS	:	
LOGIN INITIALS	:	MLV
PM	:	HHM
PROJECT NAME	:	Former Dow AFB
QC LEVEL	:	II+
REPORT INSTRUCTIONS	:	No grainsize or IDW in FUDS. Email login, noncon, & final reports to schanzle@mabbett.com & douglas@mabbett.com.
SDG ID	:	
SDG STATUS	:	
TEMPLATE	:	
VERBAL TAT	:	

6:17 pm, Oct 18, 2023

Run Reports: Logindetail

Login Number: SQ5564

Account: MABBETT001
Mabbett & Associates Inc

Project: MABBETT-DOWAFB

Quote/Incoming: MABBETT-DOWAFB

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Verbal Due Date	Mailed
SQ5564-1	DOW-PFAS-1012	12-OCT-23 07:55	12-OCT-23		09-NOV-23		

Sample Comments:

Matrix		Product	Hold Date (shortest)	Notes	Bottle Type
Aqueous	S	1633	09-NOV-23		500mL Plastic
Service	S	WASTE-DISPOSAL			

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Verbal Due Date	Mailed
SQ5564-2	DOW-PFAS-1012	12-OCT-23 07:55	12-OCT-23		09-NOV-23		

Sample Comments:

Matrix		Product	Hold Date (shortest)	Notes	Bottle Type
Solid	S	1633	09-NOV-23		4oz HDPE Jar
Solid	S	TS-ME	19-OCT-23		2oz Glass

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Verbal Due Date	Mailed
SQ5564-3	DOW-SWC-01	21-SEP-23 09:30	12-OCT-23		09-NOV-23		

Sample Comments: No TS jar.

Matrix		Product	Hold Date (shortest)	Notes	Bottle Type
Solid	S	1633	19-OCT-23		4oz HDPE Jar
Solid	S	TS-ME	28-SEP-23	Rec. Out of Hold	2oz Glass

Total Samples: 3 ***Total Analyses: 6***

6:17 pm, Oct 18, 2023

Run Reports: Logindetail

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	(800) 839-3975	0269564

GENERATOR

5. Generator's Name and Mailing Address
United States Army Corps of Engrs
New England District
696 Virginia Road
Concord, MA 01742
Generator's Phone: (978) 318-8147

Generator's Site Address (if different than mailing address)
(USACE)-New England District
Former Dow Air Force Base
N Bangor, ME 04401

6. Transporter 1 Company Name: EQ NORTHEAST, INC.
U.S. EPA ID Number: MAD 084 814 136

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
MICHIGAN DISPOSAL WASTE TREATMENT
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 000 724 831

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Hazardous Liquid Waste, Not Dot Not RCRA Regulated	025	DM	1,375	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. D24-0461-MDI / PFAS Impacted IDW Liquids (Purge and Decon Water) [W:15.00.15661500]
SES # 24-016
Matls-H
R2022054-SES

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: X [illegible] Dion
Signature: X
Month: 05 Day: 15 Year: 24

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David A Bishop
Signature:
Month: 05 Day: 15 Year: 24

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

REPUBLIC SERVICES

Form ID : 889599

WASTE/MATERIAL PROFILE FORM

A. GENERATOR/CUSTOMER INFORMATION

1. Generator: United States Army Corps of Engineers

2. Site Address: (USACE)-New England District,Former Dow Air Force Base, 250 Hildreth Street North

City: Bangor **Phone:** (978) 318-8147

State: ME **Zip:** 04401 **Country:** USA

☐ **P.O. required for payment?** *If yes, include:* 240166

8. Invoicing company: STRATEGIC ENVIRONMENTAL SERVICES INC

3. Mailing Address: 696 Virginia Road

City: Concord

State: MA **Zip:** 01742 **Country:** USA

9. Invoicing Address : 362 PUTNAM HILL ROAD

City: SUTTON

State: MA **Zip:** 01590 **Country:** USA

4. Technical Contact: Erin Kirby

10. Customer Contact: Cindy Pepin

5. Phone: (978) 318-8147 **Email:** Erin.Kirby@usace.army.mil

11. Phone: (603) 421-6391 **Email:** cpepin@strategic-es.com

6. Generator Status: ○ SQG ○ LQG ○ VSQG/CESQG ◉ Not Applicable

7. EPA ID #: N/A **NAICS CODE:** 924120 **State ID #:**

B. WASTE/MATERIAL STREAM

1. Common Name: PFAS Impacted IDW Liquids (Purge and Decon Water)

2. Generating Process: See profile form - continuation (Generating Process) for full description

3. Source Code: G19 **Form Code:** W101

C. SHIPPING/PACKAGING INFORMATION

1. DOT Hazardous Materials? ○ Yes ◉ No **Proper Shipping Name:** Material Not Regulated By D.O.T.

2. Additional Description:

3. RQ: ○ Yes ◉ No **RQ Reason:** **RQ Threshold:** **UN/NA#:**

Packing Group: **ERG#:** **Hazard Class:**

4. DOT Special Permit? ○ Yes ◉ No **Permit #:**

5. 24-Hour Emergency Phone: (508) 757-7782 **6. DOT Inhalation Hazard?** ○ Yes ◉ No

7. Container Type: ☐ Bulk ☐ Totes ☐ Pallet ☐ Boxes ☑ Drums ☐ Cylinder **Container size:** 55 Gallon Drum

☐ Lab Pack *(If 40 CFR 264.316/49 CFR 173.12(b) Lab Pack Inventory lists required)*

☐ Combination Containers *(e.g., inner containers)* **Describe:**

☐ Other, **Describe:**

8. Volume/Frequency: **Volume:** 2255 **Units:** Gallons

Frequency: ○ Year ○ Quarterly ○ Monthly ◉ 1 Time ○ Other, **Describe:**

D. PHYSICAL PROPERTIES (See Continuation for D.1)

1. Physical Description *(e.g. soil, water, PPE, debris, sorbent, etc. Include 100% of container content. If debris, provide dimensions & weight.)*

Description	Typical (%)	Min (%)	Max (%)
Decontamination water	100	0	100
Purge water	100	0	100
Sample ID DOW-AQWC-01 in SQ5108 CD	0	0	0.0

2. Odor: ◉ None ○ Slight ○ Strong **Odor type:** ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Other **Describe:**

3. Physical State: (at 70°F) ☐ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge/Slurry ☑ Liquid ☐ Gas/Aerosol ☐ Varies

4. Color: COLORLESS:BROWN **5. Liquid phases:** ◉ Single ○ Double Layer ○ Multi-layer ○ N/A

6.Is it solid using the paint filter test? *(40 CFR Part 264.314(b))* ○ Yes (Solid) ◉ No (Not Solid)

Is there a possibility of incidental liquids from transportation? ○ Yes ◉ No

7. pH: (If solid, provide estimated pH if mixed 50:50 with water) ☐ <=2 ☐ 2.1 - 4.9 ☐ 5 - 10 ☑ 10.1 - 12.4 ☐ >=12.5

8. Flash Point: °F and/or ☐ <90 °F ☐ 90 - 139 °F ☑ 140 - 199 °F ☐ >=200 °F ☐ Does not flash ☐ Flammable solid

BTU/lb. Value: and/or ◉ <5000 BTU ○ >=5000 BTU

9. Are there any known handling/treatment issues involving this material? *(i.e. Describe whether the waste stream has ever been the direct or suspected cause of a fire or other reaction, and whether there are any specific controls you use to prevent any adverse reactions?)* ○ Yes ◉ No

E. CHARACTERIZATION & CHEMICAL COMPOSITION (See Continuation for E.6)

1. Robstown Facility Customers - Waste/Material Type: ○ Industrial ○ Non-Industrial ○ N/A **TX State Code:**

Pennsylvania Residual Waste: ○ Yes ◉ No **PA State Code (s):**

2. State Waste Codes:	None									
3. RCRA Waste Codes:	None									

If None, is it exempt from the definition of "Solid Waste" or "Hazardous Waste"? ○ Yes ◉ No

4. If F006-F009, F012, or F019, are Cyanides used in the process? ○ Yes ◉ No (If yes, Total and Amenable CN (9010/9012) analysis required)

5. Knowledge is from: ☑ Lab analysis *(requires attachment)* ☐ SDS/MSDS *(requires attachment)* ☑ Process/generator knowledge

6. Chemical Composition *(include all applicable UHC's, TRI Section 313 chemicals, OSHA Hazardous Materials, PFAS Constituents, etc.)*

Constituent	Units	TCLP	Totals	Typical	Min	Max	UHC	Exceeds LDR
Barium	ug/L	◉	○	288			☐	☐
Chromium	ug/L	◉	○	24			☐	☐
Perfluorooctanoic Acid (PFOA)	ug/L	○	◉	0.19	0.19	0.19	☐	☐
Perfluorooctane sulfonic acid (PFOS)	ug/L	○	◉		1.3	1.6	☐	☐
Perfluorononanoic acid (PFNA)	ug/L	○	◉		0.0076	0.0081	☐	☐
Perfluorohexanesulfonic acid (PFHxS)	ug/L	○	◉	1.1	1.1	1.1	☐	☐
Perfluorobutanoic Acid (PFBA)	ug/L	○	◉	0.037	0.037	0.037	☐	☐
Perfluoropentanoic acid (PFPeA)	ug/L	○	◉		0.083	0.086	☐	☐
6:2 Fluorotelomer Sulfonic Acid (6:2 FTSA)	ug/L	○	◉		0.19	0.2	☐	☐

F. ADDITIONAL PROPERTIES

1. Explosive:	○ Yes ◉ No	**2. Reactive Sulfides :** **ppm**	○ Yes ◉ No
3. Shock Sensitive:	○ Yes ◉ No	**4. Reactive Cyanides:** **ppm**	○ Yes ◉ No
5. Radioactive:	○ Yes ◉ No	**6. Reactive Other:** **Describe:**	○ Yes ◉ No
7. Medical/Infectious/Biohazard Waste:	○ Yes ◉ No	**8. Polychlorinated Biphenyls (PCB):**	○ Yes ◉ No
9. Dioxins and/or Furans:	○ Yes ◉ No	**10. Metal Fines/Powder/Paste:**	○ Yes ◉ No
11. Pyrophoric:	○ Yes ◉ No	**12. Temperature Controlled:**	○ Yes ◉ No
13. Thermally Unstable:	○ Yes ◉ No	**14. Biodegradable Sorbents:**	○ Yes ◉ No
15. Compressed Gas:	○ Yes ◉ No	**16. Used Oil:**	○ Yes ◉ No
17. Oxidizer:	○ Yes ◉ No	**18. Tires:**	○ Yes ◉ No
19. Organic Peroxide:	○ Yes ◉ No	**20. Beryllium:**	○ Yes ◉ No
21. Ammonia/Ammonia Compounds:	○ Yes ◉ No	**22. Per-and Polyfluoroalkyl Substances (PFAS):**	◉ Yes ○ No

23. Asbestos: ○ Yes ◉ **No**

24. Hazardous Secondary Material: ○ Yes ◉ No

25. Are pharmaceutical wastes profiled under this approval subject to a prescription? ○ Yes ○ No ◉ N/A

Form ID: 889599

G. REGULATORY INFORMATION

1. Volatile Organic Concentration: *(Per 40 CFR Part 264.1083 & 265.1084)* ◉ <500 ppmw ○ ≥500 ppmw

2. Has the material been treated after the initial point of generation? ○ Yes ◉ No

3. If RCRA Hazardous:

- ○ Wastewater WW=<1% TSS & TOC; 40 CFR Part 268.2
- ○ Non-wastewater TSS/TOC>WW
- ○ Alternative Treatment Standards for soil? > 50% soil; 40 CFR Part 268.49
- ○ Alternative Treatment Standards for debris? 40 CFR Part 268.2(g) & (h); >50% of waste is >2.5 inch size
  - ☐ I confirm debris cannot reasonably be separated from non-debris by simple physical or mechanical means
  - ☐ I confirm debris has not been mixed/diluted with non-debris as prohibited in 40 CFR Part 268.3
- ○ Waste meets LDR Treatment Standards

4. Treatment subcategory: *(if applicable)*

5. Is the site or waste/material, subject to NESHAP/MACT standard(s)? ○ Yes ◉ No

6. Is the waste/material RCRA Hazardous containing Benzene and originating at a petroleum refinery (SIC 2911), chemical manufacturing plant (SIC 2800 thru 2899) or Coke by-product recovery plant (SIC 3312)?

☐ Yes ☑ No *(If yes,complete the Benzene Waste Operations Supplement and if applicable the Thermal Supplement)*

H. GENERATOR'S CERTIFICATION

1. Is a specific facility or treatment technology requested? ○ Yes ◉ No

2. Requested Technology:

3. Thermal Processing: ○ Yes ◉ No

4. Other specific restrictions requested:

5. Requested Facility:	

Certificate Statement:

I certify that all information (including attachments) is complete, factual and is an accurate representation of the known and suspected hazards pertaining to waste/material described herein. I authorize Republic Services personnel to add supplemental information to the Waste/Material Profile Form, provided I am contacted and grant permission to do so. Republic Services may require re-submittal of the Waste/Material Profile Form if substantial changes are determined necessary. I authorize Republic Services personnel to obtain a sample from any waste/material shipment for purposes of verification and confirmation and understand that waste/material that does not conform to specifications described in this Waste/Material Profile Form may be rejected by Republic Services. I certify that I am familiar with the waste/material described herein through analysis and/or process knowledge and that all information provided is true, accurate, representative and complete and that this Waste/Material Profile Form was completed in accordance with the instructions provided.

If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste/material characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.

Signed on behalf of

Print Name:	Erin Kirby	**Signature:**	
Title:	Project Manager		
Date:		**Company:**	US Army Corps of Engineers-NE District

Form ID: 889599

WASTE/MATERIAL PROFILE FORM - CONTINUATION (Generating Process)

B. WASTE/MATERIAL STREAM

2. Generating Process: Investigation derived wastes(IDW) from groundwater investigation in an area adjacent to a Formerly Used Defense Site, a formerly active military airfield.During prior investigations, volatile organic compounds, polycyclic aromatic hydrcarbons, PCB's & metals. PCBs were never detected at concentrations >10 mg/kg in soil samples at the site.Metals were suspected as a potential contaminant due to yellow paint discovered on some surfaces, but have not been detected in site soils above site background levels.Purgewater from monitoring well development.Decon water from decon of sample equipment

REPUBLIC SERVICES

Form ID : 889599

WASTE/MATERIAL PROFILE FORM - CONTINUATION (Physical Description)

D. PHYSICAL PROPERTIES

1. Physical Description :

Description	Typical (%)	Min (%)	Max (%)
DOW-AQWC-01, DOW-PFAS-1012-DL in SQ5564	0	0	0.0

REPUBLIC SERVICES

Form ID : 889599

WASTE/MATERIAL PROFILE FORM - CONTINUATION (Chemical)

E. CHARACTERIZATION & CHEMICAL COMPOSITION

4. Chemical Composition:

Constituent	Units	TCLP	Totals	Typical	Min	Max	UHC	Exceeds LDR
Perfluorohexanoic Acid (PFHxA)	ug/L	○	◉		0.21	0.22	☐	☐
Perfluorobutanesulfonic acid (PFBS)	ug/L	○	◉	0.12	0.12	0.12	☐	☐
Perfluoroheptanoic acid (PFHpA)	ug/L	○	◉		0.046	0.048	☐	☐
Perfluoropentane-1-sulfonic acid (PFPeS)	ug/L	○	◉		0.15	0.16	☐	☐
4:2 Fluorotelomer sulphonic acid	ug/L	○	◉		0.0069	<0.0093	☐	☐
8:2 Fluorotelomer Sulfonic Acid (8:2 FTS...	ug/L	○	◉		0.0085	<0.0096	☐	☐
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	○	◉		0.042	0.049	☐	☐
Perfluorodecanoic acid (PFDA)	ug/L	○	◉		0.00071	<0.0023	☐	☐
Perfluorooctanesulfonamide (FOSA)	ug/L	○	◉	0.024	0.024	0.024	☐	☐

MABBETT & ASSOCIATES INC

FORMER DOW AFB

SQ5108

Ms. Leslie Dimond
207-874-2400

KATAHDIN ANALYTICAL SERVICES
600 TECHNOLOGY WAY
SCARBOROUGH, ME 04074

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SAMPLE DATA PACKAGE

NARRATIVE
KATAHDIN ANALYTICAL SERVICES
MABBETT & ASSOCIATES INC.
FORMER DOW AFB
SQ5108

Sample Receipt

The following sample was received on September 21, 2023 and was logged in under Katahdin Analytical Services work order number SQ5108 for a hardcopy due date of October 19, 2023.

KATAHDIN	MABBETT
Sample No.	Sample Identification
SQ5108-1	DOW-AQWC-01

The sample was logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAP standards unless otherwise noted in this narrative or in the Report of Analysis.

We certify that the test results provided in this report are accredited under the laboratory's ISO/IEC 17025:2017 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation L2223.

Analytes which are reported but not listed on our ANAB scope of accreditation will be "^" flagged and the following language will be included in the case narrative for all DoD compliant work: "^" Indicates this analyte is not included on Katahdin Analytical Services DoD-ELAP Scope of Accreditation.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Heather Manz**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The sample of Work Order SQ5108 was analyzed in accordance with Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, EPA publication SW-846, Third Edition, Final Updates I (1993), II (1995), IIA (1994), IIB (1995), III (1997), IIIA (1999), IIIB (2005), IV (2008), V (2015) and VI (2019), and/or for the specific methods listed below or on the Report of Analysis.

8260C TCLP Analysis

There were no protocol deviations or observations noted by the organics laboratory staff for this analysis.

8151A TCLP Analysis

There were no protocol deviations or observations noted by the organics laboratory staff for this analysis.

8081B TCLP Analysis

The closing CV (file 1QJ00051) had low responses for the target analytes endrin, 4,4'-DDT, and methoxychlor on both channels that resulted in %Ds that were outside of the DoD QSM acceptance limits of ±20%. The low responses are likely due to interference from samples that were analyzed preceding this CV. Since the opening CV was acceptable and subsequent instrument maintenance resulted in an acceptable CV that confirmed interference, the associated samples were not reanalyzed.

8270D TCLP Analysis

Note: The Form VII has a column for %D that is set to 20%. The DoD QSM criterion for an opening CV is 20%D and a closing CV is 50%D. All of the compounds in the CV's were evaluated to either 20% criteria for opening CV's or 50% criteria for closing CV's.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of Katahdin Work Order SQ5108 were prepared and analyzed for metals in accordance with Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, EPA publication SW-846, Third Edition, Final Updates I (1993), II (1995), IIA (1994), IIB (1995), III (1997), IIIA (1999), IIIB (2005), IV (2008), V (2015), and VI (2019). Office of Solid Waste and Emergency Response, U.S. EPA.

TCLP Extraction (EPA Method 1311)

Katahdin Sample Numbers SQ5108-1 is an aqueous-matrix samples that were subjected to TCLP evaluation in accordance with USEPA Method 1311 on 9/27/2023. The TCLP is aqueous therefore there is no associated extraction blank.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Numbers SQ5108 were digested for ICP analysis on 09/28/2023 (QC Batch QI28ICW2) in accordance with USEPA Method 3010A.

ICP analyses of Katahdin Work Order SQ5108 sample digestates were performed using a Thermo iCAP 6500 ICP spectrometer in accordance with USEPA Method 6010C. All samples were analyzed within holding times and all analytical run QC criteria were met.

Analysis of Mercury by Cold Vapor Atomic Absorption (CVAA)

Aqueous-matrix Katahdin Sample Numbers SQ5108 were digested for mercury analysis on 09/28/2023 (QC Batch QI28HGW1) in accordance with USEPA Method 7470A.

Mercury analyses of the Katahdin Work Order SQ5108 sample digestates were performed using a Teledyne M7600 automated mercury analyzer in accordance with USEPA Method 7470A. All samples were analyzed within holding times and all analytical run QC criteria were met.

Reporting of Metals Results

Per client request, analytical results for client samples on Form I and preparation blanks on Form IIIP have been reported using the laboratory's limits of detection (LOD). All results were evaluated down to the laboratory's method detection limits (MDLs). Results that fall between the MDL and the LOQ are flagged with "J" in the C-qualifier column, and the measured concentration appears in the concentration column. Results that are less than the MDL are flagged with "U" in the C-qualifier column, and the LOD is listed in the concentration column. These LOQs, MDLs and LODs have been adjusted for each sample based on the sample amounts used in preparation and analysis.

Analytical results on Forms VA, VD, VII, and IX for client samples, matrix QC samples (duplicates and matrix spikes), and laboratory control samples have been reported down to the laboratory's method detection limits (MDLs). Analytical results that are below the MDLs are flagged with "U" in the C-qualifier column, and the adjusted LOD is listed in the concentration column.

Analytical results for instrument run QC samples (ICVs, ICBs, etc.) have been reported down to the laboratory's instrument detection limits (IDLs).

IDLs, LODs, MDLs, and LOQs are listed on Form 10 of the accompanying data package.

Wet Chemistry Analysis

The sample of Work Order SQ5108 was analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for reactive cyanide, reactive sulfide, pH, and ignitability were performed according to Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, EPA publication SW-846, Third Edition, Final Updates I (1993), II (1995), IIA (1994), IIB (1995), III (1997), IIIA (1999), IIIB (2005), IV (2008), V (2015) and VI (2019).

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Limit of Quantitation (LOQ) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U LOD", where "LOD" is the numerical value of the Limit of Detection.

All analyses were performed within analytical holding times and all quality control criteria were met.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Quality Assurance Officer, or their designee, as verified by the following signature.

17-Nov-2023

for
Leslie Dimond
Quality Assurance Officer

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin Analytical Services, LLC. — Sample Receipt Condition Report

Client: Mabbett	KAS PM: HHM	Sampled By: Client
Project:	KIMS Entry By: JCB	Delivered By: Client
KAS Work Order#: SQ5108-5110	KIMS Review By: HHM	Received By: EP
	Labeled By: JCB	
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 9/21/23 1635

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		/			
2. Chain of Custody present in cooler?	/				
3. Chain of Custody signed by client?	/				
4. Chain of Custody matches samples?	/				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	/				Temp (°C): 2.3 — Thermometer ID: IR-1
Samples received at <6 °C w/o freezing?	/				Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?	/				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	/				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				/	Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?	/				
Soil/Sediment:					
Received in airtight container?	/				
Received in methanol?	/				
Methanol covering soil?	/				
D.I. Water - Received within 48 hour HT?	/			-	
7. Trip Blank present in cooler?	/				
8. Proper sample containers and volume?			X		Below.
9. Samples within hold time upon receipt?	/				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2			X		EB Metals pres @ login HNO_3 = ~~MR3702~~ MR3701
Sulfide - >9				/	
Cyanide – pH >12				/	
11. Bottleware Prepped on:					

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Limited EB volume - only ~400 mL for PAH - SQ5110-1

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client: Mabbett & Associates Inc.	Contact: David Schanzle	Phone #: (781) 275-6050	Fax #: ( )
Address: 105 Central St, Suite 4100	City: Stoneham	State: MA	Zip Code: 02180
Purchase Order #	Proj. Name / No.: Dow FUS RI / R2022057	Katahdin Quote #: A03142301	
Bill (if different than above)	Address		
Sampler (Print / Sign): Michael Bloom / Michael Bloom		Copies To: DPS	

LAB USE ONLY — WORK ORDER #: SQ5108 — KATAHDIN PROJECT NUMBER

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

★	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	ANALYSIS AND CONTAINER TYPE PRESERVATIVES: TCLP-ZHE 1311, SW1260C (Filt. ☐Y ☐N)	TCLP-SVOA 1311, SW8270 (Filt. ☐Y ☐N)	TCLP Pesticide SW8081 (Filt. ☐Y ☐N)	TCLP Herbicide SW8151 (Filt. ☐Y ☐N)	TCLP Metals SW6010, SW7470 (Filt. ☐Y ☐N)	pH SW9045 SW Ignitability 1010 (Filt. ☐Y ☐N)	Reactivity Sulfide Cyanide SW7.3.3.2 (Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)
	DOW-AQWC-01	9/21/23/1000	Water		✓	✓	✓	✓	✓	✓	✓			
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COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	9/21/23 16:35	[signature]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody (ln01)

Sep. 27, 2023
02:37 PM

Login Number: SQ5108

Account: MABBETT001
Mabbett & Associates Inc

Project: MABBETT-DOWAFB

Primary Report Address:
Helen Douglas
Mabbett & Associates, Inc.
105 Central Street
Suite 4100
Stonham, MA 02180-1260
USA
douglas@mabbett.com

Primary Invoice Address:
Accounts Payable
Mabbett & Associates Inc
105 Central Street
Suite 4100
Stoneham,MA 02180

accountspayable@mabbett.com

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming: MABBETT-DOWAFB

Login Information

ANALYSIS INSTRUCTIONS	:	DOD, ND to LOD w/ J flags. Use 2-4X detection limits.
CHECK NO.	:	
CLIENT PO#	:	D01ME0004 02, R2022057.000
CLIENT PROJECT MANAGE	:	Stephen Vetere
CONTRACT	:	W912WJ-19-D-0005
COOLER TEMPERATURE	:	2.3
DELIVERY SERVICES	:	Client
EDD FORMAT	:	WESTMDLPQLLOD-XLS
ISM INSTRUCTIONS	:	
LOGIN INITIALS	:	JCB
PM	:	HHM
PROJECT NAME	:	Former Dow AFB
QC LEVEL	:	IV
REPORT INSTRUCTIONS	:	No grainsize or IDW in FUDS. Email login, noncon, & final reports to schanzle@mabbett.com & douglas@mabbett.com.
SDG ID	:	
SDG STATUS	:	
TEMPLATE	:	
VERBAL TAT	:	

HHM

3:03 pm, Sep 27, 2023

Run Reports: Logindetail

Login Number: SQ5108

Account: MABBETT001

Mabbett & Associates Inc

Project: MABBETT-DOWAFB

Quote/Incoming: MABBETT-DOWAFB

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Verbal Due Date	Mailed
SQ5108-1	DOW-AQWC-01	21-SEP-23 10:00	21-SEP-23		19-OCT-23		

Sample Comments:

Matrix		Product	Hold Date (shortest)	Notes	Bottle Type
Service	S	REPORTING			
Aqueous	S	SW1010-IGNITABILITY	05-OCT-23		250mL N-Amber Glass
Aqueous	S	SW7.3.3-REAC-CN-LOD	05-OCT-23		500mL Plastic
Aqueous	S	SW7.3.4-REAC-SLF-LOD	28-SEP-23		500mL Plastic
Aqueous	S	SW9040C-PH	22-SEP-23	SHORT	125mL Plastic
Aqueous	P	TCLP-HERB-LOD			
		SW1311-EXT-HERB	TCLP-SW8151-LOD		
Aqueous	P	TCLP-METALS			
		SW1311-EXT	SW3010-PREP-TCLP	TCLP-ARSENIC	TCLP-BARIUM
		TCLP-CADMIUM	TCLP-CHROMIUM	TCLP-LEAD	TCLP-MERCURY
		TCLP-SELENIUM	TCLP-SILVER		
Aqueous	P	TCLP-PEST-LOD			
		SW1311-EXT-PEST	TCLP-SW8081-LOD		
Aqueous	P	TCLP-SVOA-LOD			
		SW1311-EXT-SVOA	TCLP-SW8270-LOD		
Aqueous	P	TCLP-VOA-LOD			
		SW1311-EXT-VOA	TCLP-SW8260-LOD		
Service	S	WASTE-DISPOSAL			

Total Samples: 1 ***Total Analyses: 11***

3:03 pm, Sep 27, 2023

Run Reports: Logindetail

SAMPLE DATA SUMMARY PACKAGE

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL, "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery or percent RPD (relative percent difference) was outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

And/or

J Used for Dual Column analytes when there is a greater than 40% difference for detected concentrations between the two GC/HPLC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

I Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration (ICAL).

D Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration Verification (ICV).

C Indicates that the flagged compound did not meet DoD criteria in the corresponding opening Calibration Verification (CV).

V Indicates that the flagged compound did not meet DoD criteria in the corresponding closing Calibration Verification (CV).

L/LL Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M/MM Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike (MS) and/or Matrix Spike Duplicate MSD) prepared and/or analyzed concurrently with the native sample.

H Indicates the flagged compound was detected on the primary column but was not detected on the confirmation column therefore the compound is not reported as a positive detection. (SW846 8330A/B only)

METALS SAMPLE FLAGGING

FLAG	SPECIFIED MEANING
E	The reported value is estimated because of the presence of interference (as indicated by serial dilution).
N	The pre-digestion spiked sample recovery is not within control limits.
*	The duplicate sample analysis relative percent difference (RPD) is not within control limits.
B	Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.
A	The post-digestion spiked sample recovery is not within control limits.
•	Analytical run QC sample (e.g. ICV, CCV, ICB, CCB, ICSA, ICSAB) not within control limits.
U	The analyte was not detected above the specified level. This level may be the Limit of Quantitation (LOQ) (previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client. Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.
J	The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ) (previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).
Q	One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery or CCV).

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 Please refer to cover letter or narrative for further information.

H_ Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5108
Lab ID: SQ5108-1DL
Client ID: DOW-AQWC-01
Matrix: AQ
Lab File ID: T2041.D

Sample Date: 21-SEP-23
Extract Date: 28-SEP-23
Extracted By: CR
Extraction Method: 5030/1311
Lab Prep Batch: WG343209

Report Date: 12-OCT-23
Analysis Date: 28-SEP-23
Analyst: CR
Analysis Method: SW846 8260C
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	15	ug/L	20	1	20.	7.4	15.
Carbon Tetrachloride	U	10	ug/L	20	1	20.	5.0	10.
Chlorobenzene	U	10	ug/L	20	1	20.	5.0	10.
Chloroform	U	15	ug/L	20	1	20.	7.4	15.
1,2-Dichloroethane	U	10	ug/L	20	1	20.	5.0	10.
1,1-Dichloroethene	U	15	ug/L	20	1	20.	7.4	15.
2-Butanone	U	60	ug/L	20	5	100	30.	60.
Tetrachloroethene	U	20	ug/L	20	2	40.	10.	20.
Trichloroethene	U	15	ug/L	20	1	20.	7.4	15.
Vinyl Chloride	U	20	ug/L	20	2	40.	10.	20.
1,2-Dichloroethane-D4		112.	%					
Toluene-D8		102.	%					
p-Bromofluorobenzene		96.0	%					
Dibromofluoromethane		105.	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5108
Lab ID: SQ5108-1
Client ID: DOW-AQWC-01
Matrix: AQ
Lab File ID: U1652.D

Sample Date: 21-SEP-23
Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: 3510C/1311
Lab Prep Batch: WG343378

Report Date: 16-NOV-23
Analysis Date: 19-OCT-23
Analyst: DT
Analysis Method: SW846 8270D
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pyridine	U	38	ug/L	1	10	50.	18.	38.
1,4-Dichlorobenzene	U	38	ug/L	1	10	50.	18.	38.
2-Methylphenol	U	55	ug/L	1	15	75.	28.	55.
3&4-Methylphenol	U	75	ug/L	1	20	100	38.	75.
Hexachloroethane	U	38	ug/L	1	10	50.	18.	38.
Nitrobenzene	U	38	ug/L	1	10	50.	18.	38.
Hexachlorobutadiene	U	38	ug/L	1	10	50.	18.	38.
2,4,6-Trichlorophenol	U	38	ug/L	1	10	50.	18.	38.
2,4,5-Trichlorophenol	U	100	ug/L	1	25	120	50.	100
2,4-Dinitrotoluene	U	38	ug/L	1	10	50.	18.	38.
Hexachlorobenzene	U	38	ug/L	1	10	50.	18.	38.
Pentachlorophenol	U	100	ug/L	1	25	120	50.	100
2-Fluorophenol		37.3	%					
Phenol-D6		24.2	%					
Nitrobenzene-D5		79.7	%					
2-Fluorobiphenyl		78.4	%					
2,4,6-Tribromophenol		78.2	%					
Terphenyl-D14		81.6	%					

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http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5108
Lab ID: SQ5108-1RE
Client ID: DOW-AQWC-01
Matrix: AQ
Lab File ID: 1QJ00042.D

Sample Date: 21-SEP-23
Extract Date: 04-OCT-23
Extracted By: SH/SR
Extraction Method: 3510C/1311
Lab Prep Batch: WG343476

Report Date: 01-NOV-23
Analysis Date: 06-OCT-23
Analyst: AD
Analysis Method: SW846 8081B
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
gamma-BHC	U	0.12	ug/L	1	.05	0.25	0.060	0.12
Heptachlor	U	0.12	ug/L	1	.05	0.25	0.060	0.12
Heptachlor Epoxide	U	0.12	ug/L	1	.05	0.25	0.060	0.12
Endrin	U	0.25	ug/L	1	.1	0.50	0.12	0.25
Methoxychlor	U	1.2	ug/L	1	.5	2.5	0.60	1.2
Technical Chlordane	U	1.2	ug/L	1	.5	2.5	0.60	1.2
Toxaphene	U	2.5	ug/L	1	1	5.0	1.2	2.5
Tetrachloro-M-Xylene		71.8	%					
Decachlorobiphenyl		72.4	%					

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Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5108
Lab ID: SQ5108-1
Client ID: DOW-AQWC-01
Matrix: AQ
Lab File ID: 8QJ00288.D

Sample Date: 21-SEP-23
Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: 3510C/1311
Lab Prep Batch: WG343382

Report Date: 19-OCT-23
Analysis Date: 11-OCT-23
Analyst: SR
Analysis Method: SW846 8151A
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
2,4-D	U	7.5	ug/L	1	3	15.	3.8	7.5
Silvex	U	7.5	ug/L	1	3	15.	3.8	7.5
2,4-Dichlorophenylacetic Acid		109.	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
http://www.katahdinlab.com

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** DOW-AQWC-01

Matrix: WATER **SDG Name:** SQ5108

Percent Solids: 0.00 **Lab Sample ID:** SQ5108-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	MDL	LOD
7440-38-2	ARSENIC, TCLP	25	U		P	1	40	13	25
7440-39-3	BARIUM, TCLP	288			P	1	25	7.5	15
7440-43-9	CADMIUM, TCLP	15	U		P	1	25	7.5	15
7440-47-3	CHROMIUM, TCLP	24	J		P	1	50	10	20
7439-92-1	LEAD, TCLP	20	U		P	1	25	10	20
7439-97-6	MERCURY, TCLP	0.10	U		CV	1	0.20	0.050	0.10
7782-49-2	SELENIUM, TCLP	35	U		P	1	50	18	35
7440-22-4	SILVER, TCLP	20	U		P	1	50	10	20

Comments:

Report of Analytical Results

Lab Sample ID: SQ5108-1
Client ID: DOW-AQWC-01
SDG: SQ5108
Report Date: 17-OCT-23

Matrix	Date Sampled	Date Received
AQ	21-SEP-23 10:00	21-SEP-23

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Cyanide, Reactive	U10. mg/Kg	20.	5.0	10.	SW846 7.3.3	WG343424	02-OCT-23 15:40	SW846 7.3.4	28-SEP-23	
Ignitability	>71. Deg. C	71.	71.	N/A	SW846 1010A	WG343570	05-OCT-23 11:46	N/A	N/A	
Sulfide, Reactive	U40 mg/Kg	50.	20.	40	SW846 7.3.4	WG343274	28-SEP-23 15:19	SW846 7.3.4	28-SEP-23	
pH(Laboratory)	12.0 pH	0.10	0.10	N/A	SW846 9040C	WG343148	26-SEP-23 14:47	N/A	N/A	

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TCLP VOLATILE DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **SDG:** SQ5108 **Matrix:** AQ

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
DOW-AQWC-01	SQ5108-1DL		96.0		105.		112.		102.	
Laboratory Control S	WG343209-1		101.		97.2		95.4		99.0	
Method Blank	WG343209-2		96.5		99.2		101.		99.2	

Abbr.	Surrogate Compound	QC Limits
BFB	p-Bromofluorobenzene	85-114
DBF	Dibromofluoromethane	80-119
DCA	1,2-Dichloroethane-D4	81-118
TOL	Toluene-D8	89-112

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Form 4
Method Blank Summary

Lab File ID : T2036.D
Instrument ID : GCMS-T
Heated Purge : No
Prep Temperature (C) : N/A

SDG : SQ5108
Lab Sample ID : WG343209-2
Date Analyzed : 28-SEP-23
Time Analyzed : 10:20

This Method Blank applies to the following samples and QC samples:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	
Laboratory Control S	WG343209-1	T2034.D	09/28/23	09:20	
DOW-AQWC-01	SQ5108-1DL	T2041.D	09/28/23	12:30	

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Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Lab File ID : TB583A.D
Instrument ID : GCMS-T

SDG : SQ5108
Date Analyzed : 26-SEP-23
Time Analyzed : 09:29
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	15.6		
75	30.0 - 60.0% of mass 95	46.4		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.1		
173	Less than 2.0% of mass 174	0.6	0.70	1
174	Greater than 50.0% of mass 95	78.3		
175	5.0 - 9.0% of mass 174	6.2	7.94	1
176	95.0 - 101.0% of mass 174	77.8	99.47	1
177	5.0 - 9.0% of mass 176	5.0	6.43	2

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

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG343083-4	T1990.D	09/26/23	09:49
Initial Calibration	WG343083-3	T1991.D	09/26/23	10:15
Initial Calibration	WG343083-8	T1992.D	09/26/23	10:41
Initial Calibration	WG343083-2	T1993.D	09/26/23	11:07
Initial Calibration	WG343083-1	T1994.D	09/26/23	11:34
Initial Calibration	WG343083-6	T1995.D	09/26/23	12:00
Initial Calibration	WG343083-5	T1996.D	09/26/23	12:26
Initial Calibration	WG343083-7	T1997.D	09/26/23	12:52
Independent Source	WG343083-9	T1998A.D	09/26/23	13:18

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Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Lab File ID : TB585A.D
Instrument ID : GCMS-T

SDG : SQ5108
Date Analyzed : 28-SEP-23
Time Analyzed : 08:23
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	15.3		
75	30.0 - 60.0% of mass 95	47.1		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	6.7		
173	Less than 2.0% of mass 174	0.4	0.50	1
174	Greater than 50.0% of mass 95	79.1		
175	5.0 - 9.0% of mass 174	5.9	7.48	1
176	95.0 - 101.0% of mass 174	79.7	100.72	1
177	5.0 - 9.0% of mass 176	5.1	6.34	2

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

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG343209-4	T2033.D	09/28/23	08:44
Laboratory Control S	WG343209-1	T2034.D	09/28/23	09:20
Method Blank	WG343209-2	T2036.D	09/28/23	10:20
DOW-AQWC-01	SQ5108-1DL	T2041.D	09/28/23	12:30
Continuing Calibrati	WG343209-5	T2054.D	09/28/23	18:10

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Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
SDG: SQ5108
Lab ID : WG343083-4
Analytical Date: 09/26/23 09:49
Lab File ID : T1990.D
Instrument ID: GCMS-T

		PENTAFLUOROBENZENE			1,4-DIFLUOROBENZENE			CHLOROBENZENE-D5		
		Area	#	RT #	Area	#	RT #	Area	#	RT #
	Std .	823137		4.70	1408588		5.24	1323061		8.24
	Upper Limit	1646274		4.87	2817176		5.41	2646122		8.41
	Lower Limit	411568.5		4.54	704294		5.08	661530.5		8.08
Client Sample ID	Lab Sample ID									
Continuing Calibrati	WG343209-4	809399		4.70	1361115		5.24	1267610		8.24
Laboratory Control S	WG343209-1	795893		4.70	1338275		5.24	1250971		8.24
Method Blank	WG343209-2	744254		4.70	1312256		5.24	1205495		8.24
DOW-AQWC-01	SQ5108-1DL	606607		4.70	1110584		5.24	1029870		8.24
Continuing Calibrati	WG343209-5	739206		4.70	1253655		5.24	1188100		8.24

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 10 seconds of internal standard RT
RT Lower Limit = - 10 seconds of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
SDG: SQ5108
Lab ID : WG343083-4
Analytical Date: 09/26/23 09:49
Lab File ID : T1990.D
Instrument ID: GCMS-T

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	719201		10.59	
	Upper Limit	1438402		10.76	
	Lower Limit	359600.5		10.43	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG343209-4	690804		10.59	
Laboratory Control S	WG343209-1	684682		10.59	
Method Blank	WG343209-2	617864		10.59	
DOW-AQWC-01	SQ5108-1DL	517465		10.59	
Continuing Calibrati	WG343209-5	644418		10.59	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 10 seconds of internal standard RT
RT Lower Limit = - 10 seconds of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL, "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery or percent RPD (relative percent difference) was outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

And/or

J Used for Dual Column analytes when there is a greater than 40% difference for detected concentrations between the two GC/HPLC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

I Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration (ICAL).

D Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration Verification (ICV).

C Indicates that the flagged compound did not meet DoD criteria in the corresponding opening Calibration Verification (CV).

V Indicates that the flagged compound did not meet DoD criteria in the corresponding closing Calibration Verification (CV).

L/LL Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M/MM Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike (MS) and/or Matrix Spike Duplicate MSD) prepared and/or analyzed concurrently with the native sample.

H Indicates the flagged compound was detected on the primary column but was not detected on the confirmation column therefore the compound is not reported as a positive detection. (SW846 8330A/B only)

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Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

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ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5108
Lab ID: SQ5108-1DL
Client ID: DOW-AQWC-01
Matrix: AQ
Lab File ID: T2041.D

Sample Date: 21-SEP-23
Extract Date: 28-SEP-23
Extracted By: CR
Extraction Method: 5030/1311
Lab Prep Batch: WG343209

Report Date: 12-OCT-23
Analysis Date: 28-SEP-23
Analyst: CR
Analysis Method: SW846 8260C
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	15	ug/L	20	1	20.	7.4	15.
Carbon Tetrachloride	U	10	ug/L	20	1	20.	5.0	10.
Chlorobenzene	U	10	ug/L	20	1	20.	5.0	10.
Chloroform	U	15	ug/L	20	1	20.	7.4	15.
1,2-Dichloroethane	U	10	ug/L	20	1	20.	5.0	10.
1,1-Dichloroethene	U	15	ug/L	20	1	20.	7.4	15.
2-Butanone	U	60	ug/L	20	5	100	30.	60.
Tetrachloroethene	U	20	ug/L	20	2	40.	10.	20.
Trichloroethene	U	15	ug/L	20	1	20.	7.4	15.
Vinyl Chloride	U	20	ug/L	20	2	40.	10.	20.
1,2-Dichloroethane-D4		112.	%					
Toluene-D8		102.	%					
p-Bromofluorobenzene		96.0	%					
Dibromofluoromethane		105.	%					

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Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\T2041.D
Report Date: 12-Oct-2023 12:40

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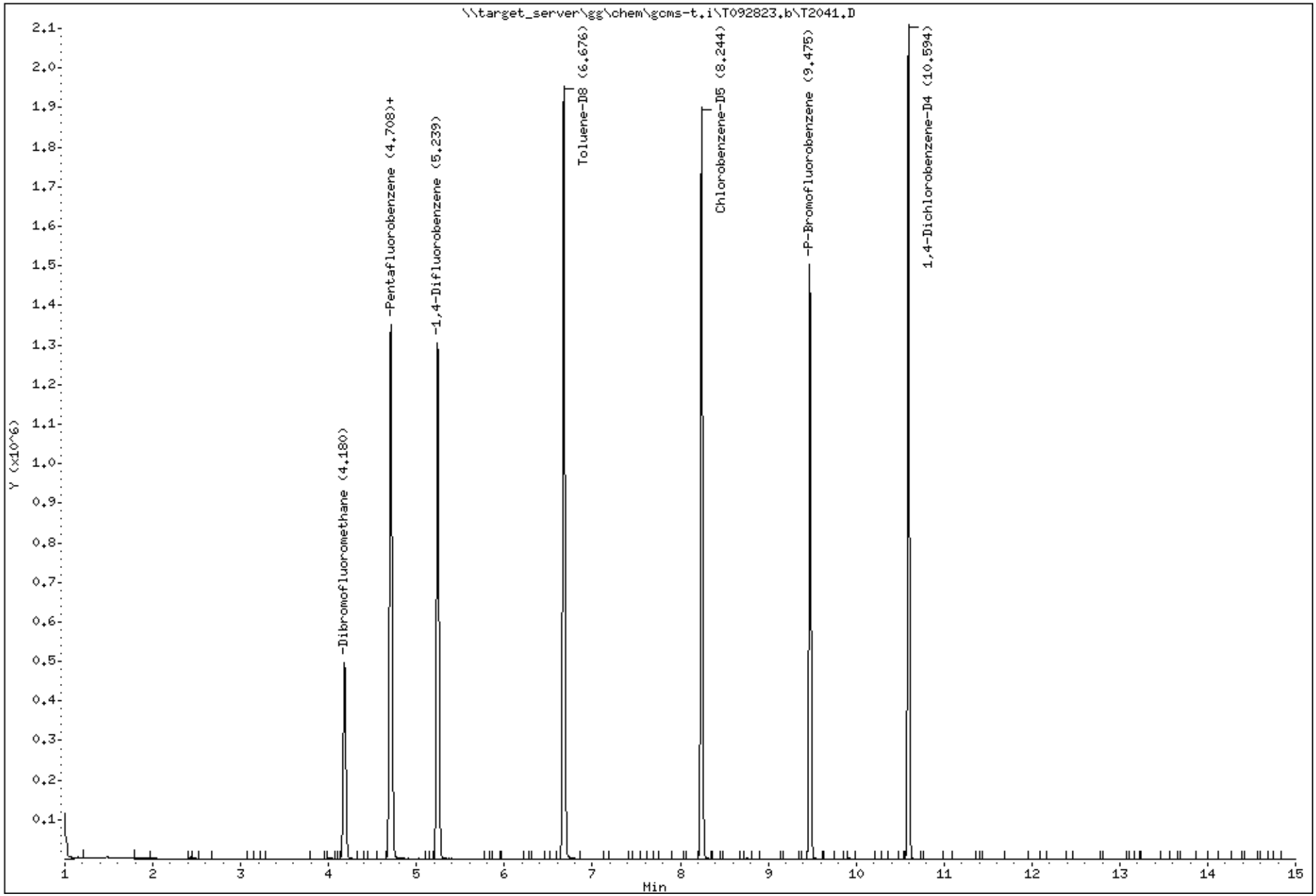
Data file : \\target_server\gg\chem\gcms-t.i\T092823.b\T2041.D
Lab Smp Id: SQ5108-1DL Client Smp ID: DOW-AQWC-01
Inj Date : 28-SEP-2023 12:30
Operator : CR Inst ID: gcms-t.i
Smp Info : SQ5108-1DL
Misc Info : WG343209,WG343083-4
Comment : 5030/1311
Method : \\target_server\gg\chem\gcms-t.i\T092823.b\T826(33)23.m
Meth Date : 11-Oct-2023 11:40 croy Quant Type: ISTD
Cal Date : 26-SEP-2023 12:52 Cal File: T1997.D
Als bottle: 9
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOA-WS

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 34 Dibromofluoromethane	113	4.180	4.179	(0.889)	322694	52.4504	52.4	
* 41 Pentafluorobenzene	168	4.704	4.704	(1.000)	606607	50.0000		
$ 42 1,2-Dichloroethane-D4	65	4.711	4.712	(1.002)	370884	55.8238	55.8	
* 48 1,4-Difluorobenzene	114	5.239	5.243	(1.000)	1110584	50.0000		
$ 56 Toluene-D8	98	6.676	6.676	(1.274)	1311978	51.0666	51.1	
* 67 Chlorobenzene-D5	117	8.244	8.244	(1.000)	1029870	50.0000		
$ 76 P-Bromofluorobenzene	95	9.475	9.475	(1.809)	456193	48.0282	48.0	
* 91 1,4-Dichlorobenzene-D4	152	10.594	10.594	(1.000)	517465	50.0000		

Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\T2041.D
Date : 28-SEP-2023 12:30
Client ID: DOW-AQWC-01
Instrument: gcms-t.i
Sample Info: SQ5108-1DL



Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5108

Instrument ID: GCMS-T **Column ID:**

Lab File IDs : T1994.D T1993.D T1991.D T1990.D T1996.D T1995.D T1997.D T1992.D

Calibration Date(s): 26-SEP-23 09:49
26-SEP-23 12:52

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Curve				%RSD or R^2		
	1.0000	5.0000	20.0000	50.0000	100.0000	150.0000	75.0000	10.0000	Type	b	m1	m2	Result	Limit	
Vinyl chloride	0.54489	0.45925	0.41549	0.41822	0.42334	0.42548	0.42734	0.45654	AVG		0.44632		9.67449	15	O
1,1-Dichloroethene	0.45290	0.47216	0.42907	0.43238	0.43261	0.44021	0.45790	0.46683	AVG		0.44801		3.73465	15	O
Chloroform	0.94916	0.91124	0.83669	0.84653	0.84543	0.87062	0.89013	0.93245	AVG		0.88528		4.80552	15	O
Carbon Tetrachloride	0.36012	0.36723	0.34907	0.37343	0.37268	0.38947	0.38760	0.37160	AVG		0.37140		3.58084	15	O
2-Butanone	0.14030	0.15499	0.13879	0.14241	0.14067	0.14491	0.13539	0.14524	AVG		0.14284		4.10782	15	O
Benzene	1.29429	1.24627	1.16201	1.17420	1.13051	1.12070	1.20425	1.29025	AVG		1.20281		5.65255	15	O
1,2-Dichloroethane	0.44267	0.38107	0.33763	0.34525	0.34539	0.35936	0.36014	0.36191	AVG		0.36668		9.13724	15	O
Trichloroethene	0.31979	0.32616	0.29767	0.30631	0.30738	0.32247	0.31631	0.31942	AVG		0.31444		3.07927	15	O
Tetrachloroethene	0.24935	0.26934	0.23709	0.25211	0.25690	0.26482	0.26843	0.25535	AVG		0.25667		4.22936	15	O
Chlorobenzene	0.98767	0.92563	0.83789	0.85295	0.82482	0.81652	0.87617	0.90947	AVG		0.87889		6.67990	15	O
Dibromofluoromethane	0.50979	0.50497	0.50774	0.50308	0.50846	0.51350	0.50277	0.50660	AVG		0.50711		0.70806	15	
1,2-Dichloroethane-D4	0.56636	0.54894	0.54568	0.54223	0.54512	0.55553	0.53248	0.54464	AVG		0.54762		1.81659	15	
Toluene-D8	1.16462	1.15648	1.16844	1.15311	1.14691	1.16070	1.14705	1.15601	AVG		1.15667		0.66892	15	
P-Bromofluorobenzene	0.41196	0.42316	0.43165	0.43253	0.43457	0.43760	0.42708	0.42251	AVG		0.42763		1.93569	15	

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1998A.D
Report Date: 09-Oct-2023 12:51

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa02236
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: WG343083-9 Client Smp ID: WG343083-LCS
Level: LOW Operator: CR
Data Type: MS DATA SampleType: LCS
SpikeList File: IND_CHECK.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\target_server\gg\chem\gcms-t.i\T092623.b\T826(33)23.m
Misc Info: WG343083,WG343083-4

SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.0	50.7	101.41	80-120
2	Chloromethane	50.0	48.9	97.74	80-120
3	Vinyl chloride	50.0	47.6	95.21	80-120
4	Bromomethane	50.0	47.8	95.57	80-120
5	Chloroethane	50.0	53.2	106.44	80-120
6	Trichlorofluoromet	50.0	48.6	97.12	80-120
7	Diethyl Ether	50.0	47.6	95.27	80-120
19	Tertiary-butyl alc	250	249	99.48	80-120
8	1,1-Dichloroethene	50.0	40.7	81.38	80-120
9	Carbon Disulfide	50.0	53.4	106.91	80-120
10	Freon-113	50.0	48.3	96.63	80-120
11	Iodomethane	50.0	55.1	110.14	80-120
12	Acrolein	250	244	97.62	80-120
14	Methylene Chloride	50.0	46.3	92.68	80-120
15	Acetone	50.0	62.5	125.08*	80-120
45	Isobutyl Alcohol	1000	933	93.35	80-120
16	trans-1,2-Dichloro	50.0	47.6	95.17	80-120
13	Allyl Chloride	50.0	51.4	102.71	80-120
18	Methyl tert-butyl	50.0	54.4	108.78	80-120
20	Acetonitrile	500	457	91.37	80-120
21	Di-isopropyl ether	50.0	53.0	106.08	80-120
22	Chloroprene	50.0	51.8	103.58	80-120
39	Propionitrile	500	480	96.05	80-120
40	Methacrylonitrile	500	493	98.68	80-120
23	1,1-Dichloroethane	50.0	49.6	99.17	80-120
24	Acrylonitrile	250	246	98.54	80-120
25	Ethyl tertiary-but	50.0	53.9	107.87	80-120
26	Vinyl Acetate	50.0	56.4	112.85	80-120
27	cis-1,2-Dichloroet	50.0	49.3	98.69	80-120
M 103	1,2-Dichloroethyle	100	96.9	96.93	80-120
52	Methyl Methacrylat	50.0	53.6	107.27	80-120
28	2,2-Dichloropropan	50.0	49.2	98.45	80-120
30	Bromochloromethane	50.0	51.4	102.89	80-120
31	Chloroform	50.0	47.3	94.59	80-120
32	Carbon Tetrachlori	50.0	47.8	95.60	80-120
33	Tetrahydrofuran	50.0	58.6	117.23	80-120
35	1,1,1-Trichloroeth	50.0	48.2	96.46	80-120
36	1,1-Dichloropropen	50.0	49.1	98.14	80-120
37	2-Butanone	50.0	49.0	98.03	80-120
38	Benzene	50.0	48.4	96.79	80-120

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1998A.D
Report Date: 09-Oct-2023 12:51

	SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	29 Cyclohexane	50.0	55.5	111.10	80-120
	62 Ethyl Methacrylate	50.0	46.4	92.90	80-120
	43 Tertiary-amyl meth	50.0	51.7	103.41	80-120
	44 1,2-Dichloroethane	50.0	46.4	92.78	80-120
	47 Trichloroethene	50.0	47.6	95.25	80-120
	49 Dibromomethane	50.0	47.0	94.09	80-120
	50 1,2-Dichloropropan	50.0	48.5	97.04	80-120
	51 Bromodichlorometha	50.0	49.0	97.98	80-120
	55 cis-1,3-dichloropr	50.0	52.8	105.56	80-120
	53 1,4-Dioxane	1000	1010	100.82	80-120
	54 2-Chloroethylvinyl	50.0	58.6	117.11	80-120
	57 Toluene	50.0	47.8	95.51	80-120
	59 4-methyl-2-pentano	50.0	51.5	103.05	80-120
	58 Tetrachloroethene	50.0	48.8	97.70	80-120
	60 trans-1,3-Dichloro	50.0	54.1	108.29	80-120
	61 1,1,2-Trichloroeth	50.0	47.5	95.09	80-120
	63 Dibromochlorometha	50.0	49.2	98.39	80-120
	64 1,3-Dichloropropan	50.0	47.5	94.98	80-120
	65 1,2-Dibromoethane	50.0	48.4	96.77	80-120
	66 2-Hexanone	50.0	53.4	106.77	80-120
	68 Chlorobenzene	50.0	48.5	97.05	80-120
	69 Ethylbenzene	50.0	50.0	99.97	80-120
	70 1,1,1,2-Tetrachlor	50.0	48.5	96.92	80-120
M	105 Xylenes (total)	150	158	105.18	80-120
	71 m+p-Xylenes	100	104	103.75	80-120
	72 o-Xylene	50.0	54.0	108.05	80-120
	74 Styrene	50.0	52.8	105.63	80-120
	73 Bromoform	50.0	53.7	107.49	80-120
	75 Isopropylbenzene	50.0	51.2	102.44	80-120
	78 cis-1,4-Dichloro-2	50.0	50.6	101.27	80-120
	84 trans-1,4-Dichloro	50.0	52.0	104.01	80-120
	77 Bromobenzene	50.0	49.0	97.95	80-120
	79 N-Propylbenzene	50.0	50.9	101.83	80-120
	80 1,1,2,2-Tetrachlor	50.0	46.3	92.66	80-120
	83 1,3,5-Trimethylben	50.0	51.2	102.49	80-120
	81 2-Chlorotoluene	50.0	50.4	100.88	80-120
	82 1,2,3-Trichloropro	50.0	45.5	91.05	80-120
	85 4-Chlorotoluene	50.0	50.9	101.76	80-120
	86 tert-Butylbenzene	50.0	52.7	105.41	80-120
	102 Pentachloroethane	50.0	0.000	0.00*	80-120
	87 1,2,4-Trimethylben	50.0	53.8	107.50	80-120
	89 P-Isopropyltoluene	50.0	54.5	109.05	80-120
	90 1,3-Dichlorobenzen	50.0	50.1	100.26	80-120
	92 1,4-Dichlorobenzen	50.0	47.6	95.17	80-120
	94 N-Butylbenzene	50.0	51.7	103.44	80-120
	88 sec-Butylbenzene	50.0	54.3	108.69	80-120
	95 1,2-Dichlorobenzen	50.0	50.1	100.24	80-120
	96 1,2-Dibromo-3-Chlo	50.0	48.8	97.68	80-120
	97 1,3,5-Trichloroben	50.0	52.1	104.26	80-120
	98 Hexachlorobutadien	50.0	48.4	96.90	80-120
	99 1,2,4-Trichloroben	50.0	52.4	104.90	80-120
	93 1,2,3-Trimethylben	50.0	52.6	105.18	80-120
	100 Naphthalene	50.0	48.8	97.71	80-120
	101 1,2,3-Trichloroben	50.0	52.0	103.93	80-120

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1998A.D
Report Date: 09-Oct-2023 12:51

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
17 Methyl Acetate	50.0	45.0	89.99	80-120
46 Methylcyclohexane	50.0	51.5	103.07	80-120
M 104 Total Alkylbenzene	350	369	105.49	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 34 Dibromofluorometha	50.0	49.8	99.62	68-128
$ 42 1,2-Dichloroethane	50.0	48.6	97.30	67-135
$ 56 Toluene-D8	50.0	49.9	99.84	65-128
$ 76 P-Bromofluorobenze	50.0	49.8	99.68	56-133

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1998A.D
Report Date: 09-Oct-2023 12:51

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T092623.b\T1998A.D
Lab Smp Id: WG343083-9 Client Smp ID: WG343083-LCS
Inj Date : 26-SEP-2023 13:18
Operator : CR Inst ID: gcms-t.i
Smp Info : WG343083-9
Misc Info : WG343083,WG343083-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T092623.b\T826(33)23.m
Meth Date : 27-Sep-2023 10:37 croy Quant Type: ISTD
Cal Date : 26-SEP-2023 12:52 Cal File: T1997.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: ORGANICS2

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.089	1.089	(0.232)	420338	50.7029	50.7	
2	Chloromethane	50	1.212	1.213	(0.258)	387747	48.8723	48.9	
3	Vinyl chloride	62	1.257	1.257	(0.267)	368480	47.6044	47.6	
4	Bromomethane	94	1.455	1.456	(0.309)	131775	47.7868	47.8	
5	Chloroethane	64	1.534	1.531	(0.326)	190796	53.2182	53.2	
6	Trichlorofluoromethane	101	1.628	1.628	(0.346)	565222	48.5581	48.6	
7	Diethyl Ether	59	1.837	1.841	(0.391)	228424	47.6364	47.6	
8	1,1-Dichloroethene	96	1.976	1.976	(0.420)	316165	40.6920	40.7	
9	Carbon Disulfide	76	1.994	1.995	(0.424)	945893	53.4551	53.4	
10	Freon-113	151	2.009	2.009	(0.427)	296106	48.3150	48.3	
11	Iodomethane	142	2.077	2.077	(0.442)	328796	55.0715	55.1	
12	Acrolein	56	2.226	2.227	(0.473)	202359	244.050	244	
13	Allyl Chloride	41	2.339	2.339	(0.497)	474008	51.3539	51.4	
14	Methylene Chloride	84	2.425	2.425	(0.516)	432613	46.3381	46.3	
15	Acetone	43	2.466	2.466	(0.524)	81943	62.5404	62.5(R)	
16	trans-1,2-Dichloroethene	96	2.559	2.564	(0.544)	423582	47.5849	47.6	
17	Methyl Acetate	43	2.582	2.582	(0.549)	209726	44.9943	45.0	
18	Methyl tert-butyl ether	73	2.664	2.665	(0.566)	989415	54.3899	54.4	
19	Tertiary-butyl alcohol	59	2.765	2.769	(0.588)	89064	248.712	249	
20	Acetonitrile	41	2.877	2.878	(0.612)	325975	456.870	457	
21	Di-isopropyl ether	45	3.053	3.054	(0.649)	1022508	53.0405	53.0	
22	Chloroprene	53	3.128	3.129	(0.665)	541446	51.7918	51.8	
23	1,1-Dichloroethane	63	3.147	3.147	(0.669)	715972	49.5873	49.6	

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1998A.D
Report Date: 09-Oct-2023 12:51

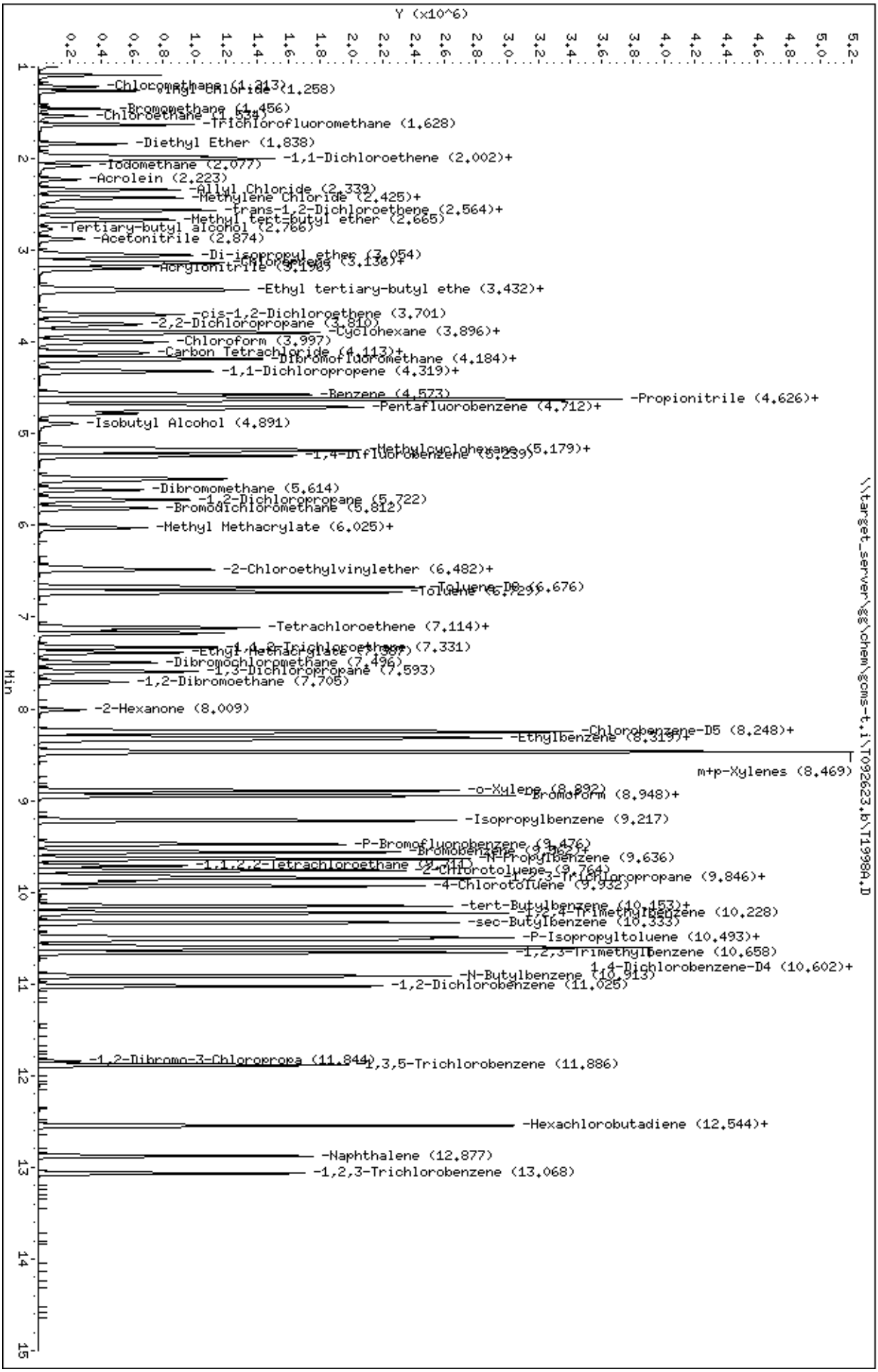
		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	24	Acrylonitrile	52	3.196	3.196	(0.679)	465568	246.349	246	
	25	Ethyl tertiary-butyl ether	59	3.428	3.432	(0.729)	953958	53.9351	53.9	
	26	Vinyl Acetate	43	3.431	3.435	(0.655)	742627	56.4233	56.4	
	27	cis-1,2-Dichloroethene	96	3.701	3.705	(0.787)	473034	49.3446	49.3	
	28	2,2-Dichloropropane	77	3.809	3.806	(0.810)	494227	49.2237	49.2	
	29	Cyclohexane	56	3.895	3.896	(0.828)	644457	55.5478	55.5	
	30	Bromochloromethane	128	3.899	3.900	(0.829)	224521	51.4448	51.4	
	31	Chloroform	83	3.996	3.997	(0.850)	726118	47.2938	47.3	
	32	Carbon Tetrachloride	117	4.112	4.117	(0.785)	527488	47.7992	47.8	
	33	Tetrahydrofuran	42	4.146	4.143	(0.881)	90929	58.6171	58.6	
$	34	Dibromofluoromethane	113	4.180	4.179	(0.889)	438064	49.8095	49.8	
	35	1,1,1-Trichloroethane	97	4.187	4.187	(0.890)	631393	48.2292	48.2	
	36	1,1-Dichloropropene	75	4.318	4.319	(0.824)	572828	49.0690	49.1	
	37	2-Butanone	43	4.314	4.315	(0.917)	121426	49.0173	49.0	
	38	Benzene	78	4.573	4.573	(0.873)	1729544	48.3934	48.4	
	39	Propionitrile	54	4.599	4.603	(0.978)	409311	480.245	480	
	40	Methacrylonitrile	41	4.625	4.626	(0.983)	1722761	493.398	493	
*	41	Pentafluorobenzene	168	4.704	4.704	(1.000)	867143	50.0000		
$	42	1,2-Dichloroethane-D4	65	4.711	4.712	(1.002)	462024	48.6477	48.6	
	43	Tertiary-amyl methyl ether	73	4.730	4.734	(1.006)	869264	51.7060	51.7	
	44	1,2-Dichloroethane	62	4.779	4.783	(0.912)	505406	46.3882	46.4	
	45	Isobutyl Alcohol	43	4.887	4.891	(1.039)	176014	933.471	933	
	46	Methylcyclohexane	83	5.168	5.172	(1.099)	756385	51.5341	51.5	
	47	Trichloroethene	95	5.186	5.187	(0.990)	444944	47.6236	47.6	
*	48	1,4-Difluorobenzene	114	5.239	5.243	(1.000)	1485656	50.0000		
	49	Dibromomethane	93	5.609	5.610	(1.071)	256822	47.0441	47.0	
	50	1,2-Dichloropropane	63	5.722	5.722	(1.092)	415671	48.5215	48.5	
	51	Bromodichloromethane	83	5.811	5.812	(1.109)	541738	48.9920	49.0	
	52	Methyl Methacrylate	41	6.025	6.025	(1.150)	250996	53.6330	53.6	
	53	1,4-Dioxane	88	6.032	6.029	(1.151)	79235	1008.17	1010	
	54	2-Chloroethylvinylether	63	6.455	6.455	(1.232)	130620	58.5526	58.6	
	55	cis-1,3-dichloropropene	75	6.481	6.485	(1.237)	682747	52.7807	52.8	
$	56	Toluene-D8	98	6.676	6.676	(1.274)	1715607	49.9185	49.9	
	57	Toluene	92	6.728	6.729	(1.284)	1086078	47.7558	47.8	
	58	Tetrachloroethene	164	7.114	7.114	(0.863)	345216	48.8512	48.8	
	59	4-methyl-2-pentanone	43	7.151	7.148	(1.365)	257356	51.5262	51.5	
	60	trans-1,3-Dichloropropene	75	7.174	7.174	(1.369)	600213	54.1431	54.1	
	61	1,1,2-Trichloroethane	83	7.331	7.331	(1.399)	321611	47.5444	47.5	
	62	Ethyl Methacrylate	69	7.387	7.387	(1.410)	494484	46.4513	46.4	
	63	Dibromochloromethane	129	7.495	7.500	(0.909)	414359	49.1941	49.2	
	64	1,3-Dichloropropane	76	7.593	7.593	(0.921)	653325	47.4899	47.5	
	65	1,2-Dibromoethane	107	7.705	7.705	(1.471)	383533	48.3870	48.4	
	66	2-Hexanone	43	8.008	8.007	(0.971)	172586	53.3850	53.4	
*	67	Chlorobenzene-D5	117	8.244	8.244	(1.000)	1376594	50.0000		
	68	Chlorobenzene	112	8.259	8.259	(1.002)	1174125	48.5226	48.5	
	69	Ethylbenzene	91	8.315	8.314	(1.009)	1972276	49.9867	50.0	
	70	1,1,1,2-Tetrachloroethane	131	8.337	8.337	(1.011)	404638	48.4609	48.5	
	71	m+p-Xylenes	91	8.468	8.468	(1.027)	2963858	103.749	104	
	72	o-Xylene	91	8.891	8.892	(1.079)	1568634	54.0242	54.0	
	73	Bromoform	173	8.944	8.944	(1.085)	253855	53.7454	53.7	
	74	Styrene	104	8.947	8.948	(1.085)	1256687	52.8139	52.8	
	75	Isopropylbenzene	105	9.217	9.217	(0.870)	1815912	51.2181	51.2	
$	76	P-Bromofluorobenzene	95	9.475	9.475	(1.809)	633257	49.8380	49.8	
	77	Bromobenzene	156	9.561	9.562	(0.903)	492042	48.9748	49.0	

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Report Date: 09-Oct-2023 12:51

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	78	cis-1,4-Dichloro-2-Butene	53	9.561	9.565	(0.903)	111487	50.6372	50.6	
	79	N-Propylbenzene	91	9.636	9.636	(0.910)	2202545	50.9154	50.9	
	80	1,1,2,2-Tetrachloroethane	83	9.711	9.711	(0.917)	451827	46.3295	46.3	
	81	2-Chlorotoluene	91	9.763	9.764	(0.922)	1321707	50.4417	50.4	
	82	1,2,3-Trichloropropane	75	9.819	9.820	(0.927)	352542	45.5243	45.5	
	83	1,3,5-Trimethylbenzene	105	9.846	9.846	(0.929)	1561535	51.2434	51.2	
	84	trans-1,4-Dichloro-2-Butene	53	9.883	9.883	(0.933)	110052	52.0073	52.0	
	85	4-Chlorotoluene	91	9.932	9.932	(0.937)	1384809	50.8806	50.9	
	86	tert-Butylbenzene	119	10.152	10.153	(0.958)	1334079	52.7028	52.7	
	87	1,2,4-Trimethylbenzene	105	10.227	10.228	(0.965)	1607515	53.7504	53.8	
	88	sec-Butylbenzene	105	10.332	10.332	(0.975)	1964309	54.3473	54.3	
	89	P-Isopropyltoluene	119	10.493	10.490	(0.990)	1645912	54.5269	54.5	
	90	1,3-Dichlorobenzene	146	10.515	10.516	(0.993)	936050	50.1292	50.1	
*	91	1,4-Dichlorobenzene-D4	152	10.594	10.594	(1.000)	733544	50.0000		
	92	1,4-Dichlorobenzene	146	10.609	10.609	(1.001)	939259	47.5830	47.6	
	93	1,2,3-Trimethylbenzene	105	10.658	10.658	(1.006)	1644598	52.5876	52.6	
	94	N-Butylbenzene	91	10.912	10.912	(1.030)	1453053	51.7217	51.7	
	95	1,2-Dichlorobenzene	146	11.024	11.025	(1.041)	881818	50.1200	50.1	
	96	1,2-Dibromo-3-Chloropropane	157	11.848	11.848	(1.118)	71801	48.8398	48.8	
	97	1,3,5-Trichlorobenzene	180	11.885	11.885	(1.122)	608614	52.1302	52.1	
	98	Hexachlorobutadiene	225	12.544	12.544	(1.184)	219951	48.4513	48.4	
	99	1,2,4-Trichlorobenzene	180	12.547	12.548	(1.184)	554161	52.4490	52.4	
	100	Naphthalene	128	12.877	12.877	(1.215)	1227631	48.8561	48.8	
	101	1,2,3-Trichlorobenzene	180	13.068	13.068	(1.233)	493588	51.9673	52.0	
	102	Pentachloroethane	165	10.156	10.157	(0.959)	1911			(aR)
M	103	1,2-Dichloroethylene (total)	96				896616	96.9295	96.9	
M	104	Total Alkylbenzenes	100				11768948	369.208	369	
M	105	Xylenes (total)	91				4532492	157.773	158	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.


Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1998A.D
Date : 26-SEP-2023 13:18
Client ID: WG343083-LCS
Sample Info: WG343083-9
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-t.i
Operator: CR
Column diameter: 0.18
\\target_server\gg\chem\gcms-t.i\T092623.b\T1998A.D
Y (x10^6)
Min
-Chloromethane (1.313)
-Vinyl Chloride (1.258)
-Bromomethane (1.456)
-Chloroethane (1.534)
-Trichlorofluoromethane (1.628)
-Diethyl Ether (1.838)
-1,1-Dichloroethene (2.002)+
-Iodomethane (2.077)
-Acrolein (2.223)
-Allyl Chloride (2.339)
-Methylene Chloride (2.425)+
-trans-1,2-Dichloroethene (2.564)+
-Methyl tert-butyl ether (2.665)
-Tertiary-butyl alcohol (2.766)
-Acetonitrile (2.874)
-Di-isopropyl ether (3.054)
-Acrylonitrile (3.190)
-Ethyl tertiary-butyl ethe (3.432)+
-cis-1,2-Dichloroethene (3.701)
-2,2-Dichloropropane (3.810)
-Cyclohexane (3.896)+
-Chloroform (3.997)
-Carbon Tetrachloride (4.113)+
-Dibromofluoromethane (4.184)+
-1,1-Dichloropropene (4.319)+
-Benzene (4.573)
-Propionitrile (4.626)+
-Pentafluorobenzene (4.712)+
-Isobutyl Alcohol (4.891)
-Methylcyclohexane (5.179)+
-1,4-Difluorobenzene (5.239)
-Dibromomethane (5.614)
-1,2-Dichloropropane (5.722)
-Bromodichloromethane (5.812)
-Methyl Methacrylate (6.025)+
-2-Chloroethylvinylether (6.482)+
-Toluene-D8 (6.676)
-Toluene (6.725)
-Tetrachloroethene (7.114)+
-1,1,2-Trichloroethane (7.331)
-Ethyl Methacrylate (7.387)
-Dibromochloromethane (7.496)
-1,3-Dichloropropane (7.593)
-1,2-Dibromoethane (7.705)
-2-Hexanone (8.009)
-Chlorobenzene-D5 (8.248)+
-Ethylbenzene (8.319)+
m+p-Xylenes (8.469)
-o-Xylene (8.892)
-Bromoform (8.948)+
-Isopropylbenzene (9.217)
-P-Bromofluorobenzene (9.476)
-Bromobenzene (9.527)+
-N-Propylbenzene (9.636)
-1,1,2,2-Tetrachloroethane (9.711)
-2-Chlorotoluene (9.764)
-1,2,3-Trichloropropane (9.846)+
-4-Chlorotoluene (9.932)
-tert-Butylbenzene (10.153)+
-1,2,4-Trimethylbenzene (10.228)
-sec-Butylbenzene (10.333)
-P-Isopropyltoluene (10.493)+
-1,2,3-Trimethylbenzene (10.658)
1,4-Dichlorobenzene-D4 (10.602)+
-N-Butylbenzene (10.913)
-1,2-Dichlorobenzene (11.025)
-1,2-Dibromo-3-Chloropropa (11.844)
1,3,5-Trichlorobenzene (11.886)
-Hexachlorobutadiene (12.544)+
-Naphthalene (12.877)
-1,2,3-Trichlorobenzene (13.068)

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1990.D
Report Date: 09-Oct-2023 12:50

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T092623.b\T1990.D
Lab Smp Id: WG343083-4 Client Smp ID: Initial Calibration
Inj Date : 26-SEP-2023 09:49
Operator : CR Inst ID: gcms-t.i
Smp Info : WG343083-4
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T092623.b\T826(33)23.m
Meth Date : 27-Sep-2023 10:37 croy Quant Type: ISTD
Cal Date : 26-SEP-2023 09:49 Cal File: T1990.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)		REVIEW CODE
1	Dichlorodifluoromethane	85	1.089	1.089	(0.232)	372768	50.0000		(a)	
2	Chloromethane	50	1.212	1.213	(0.258)	351918	50.0000		(a)	
3	Vinyl chloride	62	1.257	1.257	(0.267)	344252	50.0000		(a)	
4	Bromomethane	94	1.455	1.456	(0.309)	121527	50.0000		(a)	
5	Chloroethane	64	1.530	1.531	(0.325)	171333	50.0000		(a)	
6	Trichlorofluoromethane	101	1.627	1.628	(0.346)	535954	50.0000		(a)	
7	Diethyl Ether	59	1.841	1.841	(0.391)	230537	50.0000		(a)	
8	1,1-Dichloroethene	96	1.975	1.976	(0.420)	355910	50.0000		(a)	
9	Carbon Disulfide	76	1.994	1.995	(0.424)	820295	50.0000		(a)	
10	Freon-113	151	2.009	2.009	(0.427)	278822	50.0000		(a)	
11	Iodomethane	142	2.077	2.077	(0.442)	268424	50.0000		(a)	
12	Acrolein	56	2.226	2.227	(0.473)	199669	250.000		(a)	
13	Allyl Chloride	41	2.338	2.339	(0.497)	445292	50.0000		(a)	
14	Methylene Chloride	84	2.425	2.425	(0.516)	409058	50.0000		(a)	
15	Acetone	43	2.466	2.466	(0.524)	354320	250.000		(a)	
16	trans-1,2-Dichloroethene	96	2.563	2.564	(0.545)	405096	50.0000		(a)	
17	Methyl Acetate	43	2.582	2.582	(0.549)	218457	50.0000		(a)	
18	Methyl tert-butyl ether	73	2.664	2.665	(0.566)	875654	50.0000		(a)	
19	Tertiary-butyl alcohol	59	2.769	2.769	(0.589)	90470	250.000		(a)	
20	Acetonitrile	41	2.877	2.878	(0.612)	333953	500.000		(a)	
21	Di-isopropyl ether	45	3.053	3.054	(0.649)	942545	50.0000		(a)	
22	Chloroprene	53	3.128	3.129	(0.665)	517582	50.0000		(a)	
23	1,1-Dichloroethane	63	3.147	3.147	(0.669)	656706	50.0000		(a)	
24	Acrylonitrile	52	3.195	3.196	(0.679)	452678	250.000		(a)	

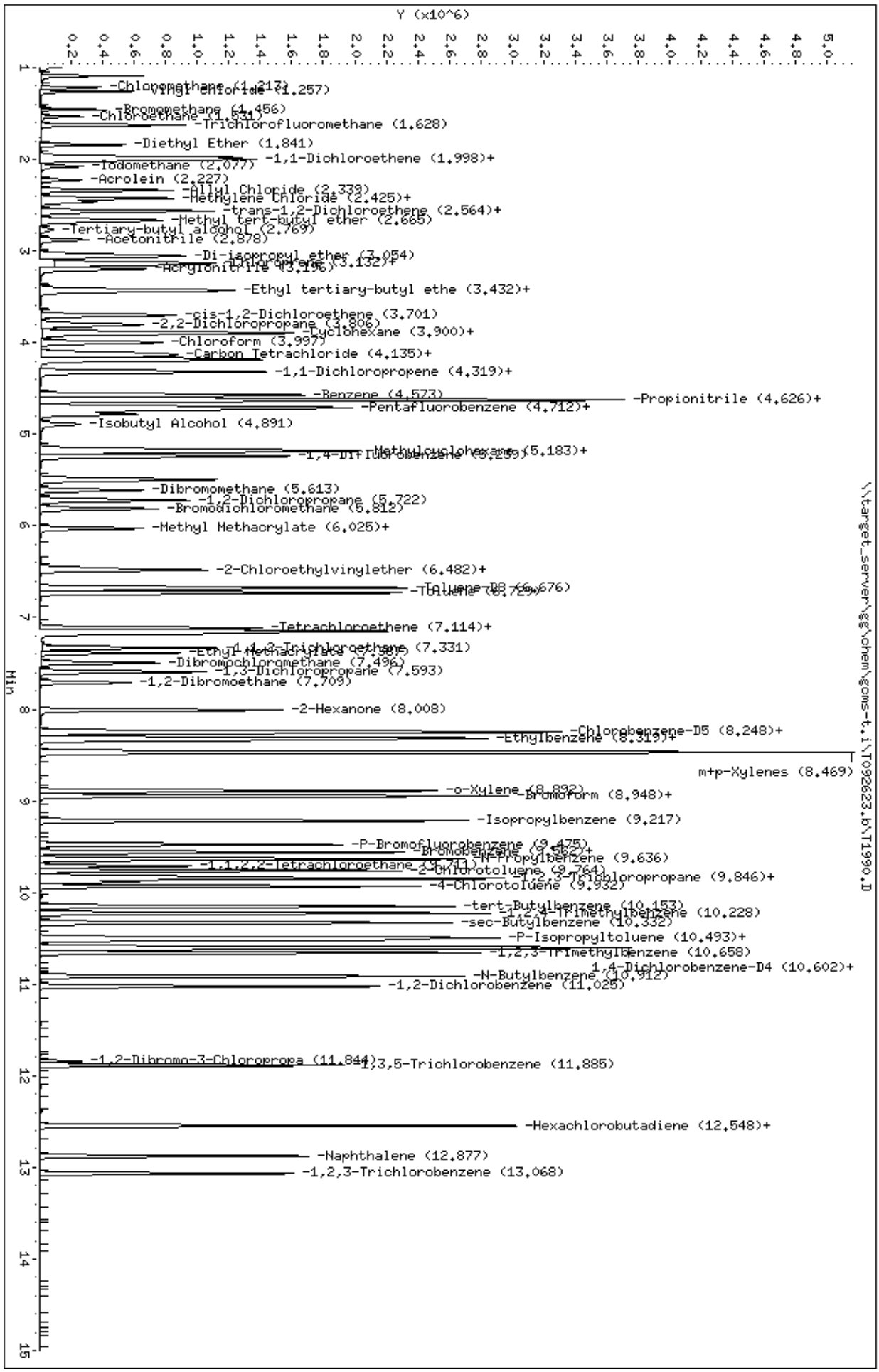
			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25	Ethyl tertiary-butyl ether	59	3.431	3.432	(0.730)	874561	50.0000	(a)	
	26	Vinyl Acetate	43	3.435	3.435	(0.655)	676945	50.0000	(a)	
	27	cis-1,2-Dichloroethene	96	3.704	3.705	(0.788)	443098	50.0000	(a)	
	28	2,2-Dichloropropane	77	3.805	3.806	(0.809)	487904	50.0000	(a)	
	29	Cyclohexane	56	3.895	3.896	(0.828)	558078	50.0000	(a)	
	30	Bromochloromethane	128	3.899	3.900	(0.829)	202650	50.0000	(a)	
	31	Chloroform	83	3.996	3.997	(0.850)	696811	50.0000	(a)	
	32	Carbon Tetrachloride	117	4.116	4.117	(0.785)	526009	50.0000	(a)	
	33	Tetrahydrofuran	42	4.142	4.143	(0.881)	384490	250.000	(a)	
$	34	Dibromofluoromethane	113	4.180	4.179	(0.889)	414102	50.0000	(a)	
	35	1,1,1-Trichloroethane	97	4.187	4.187	(0.890)	609297	50.0000	(a)	
	36	1,1-Dichloropropene	75	4.318	4.319	(0.824)	552497	50.0000	(a)	
	37	2-Butanone	43	4.314	4.315	(0.917)	586117	250.000	(a)	
	38	Benzene	78	4.573	4.573	(0.872)	1653968	50.0000	(a)	
	39	Propionitrile	54	4.603	4.603	(0.979)	409917	500.000	(a)	
	40	Methacrylonitrile	41	4.625	4.626	(0.983)	1704908	500.000	(a)	
*	41	Pentafluorobenzene	168	4.704	4.704	(1.000)	823137	50.0000		
$	42	1,2-Dichloroethane-D4	65	4.711	4.712	(1.002)	446327	50.0000	(a)	
	43	Tertiary-amyl methyl ether	73	4.734	4.734	(1.006)	817417	50.0000	(a)	
	44	1,2-Dichloroethane	62	4.782	4.783	(0.912)	486311	50.0000	(a)	
	45	Isobutyl Alcohol	43	4.891	4.891	(1.040)	175344	1000.00	(a)	
	46	Methylcyclohexane	83	5.171	5.172	(1.099)	718364	50.0000	(a)	
	47	Trichloroethene	95	5.186	5.187	(0.989)	431461	50.0000	(a)	
*	48	1,4-Difluorobenzene	114	5.242	5.243	(1.000)	1408588	50.0000		
	49	Dibromomethane	93	5.609	5.610	(1.070)	254458	50.0000	(a)	
	50	1,2-Dichloropropane	63	5.721	5.722	(1.091)	401685	50.0000	(a)	
	51	Bromodichloromethane	83	5.811	5.812	(1.108)	525106	50.0000	(a)	
	52	Methyl Methacrylate	41	6.025	6.025	(1.149)	244915	50.0000	(a)	
	53	1,4-Dioxane	88	6.028	6.029	(1.150)	77393	1000.00	(a)	
	54	2-Chloroethylvinylether	63	6.455	6.455	(1.231)	119513	50.0000	(a)	
	55	cis-1,3-dichloropropene	75	6.485	6.485	(1.237)	643724	50.0000	(a)	
$	56	Toluene-D8	98	6.676	6.676	(1.273)	1624257	50.0000	(a)	
	57	Toluene	92	6.728	6.729	(1.283)	1055141	50.0000	(a)	
	58	Tetrachloroethene	164	7.114	7.114	(0.863)	333552	50.0000	(a)	
	59	4-methyl-2-pentanone	43	7.147	7.148	(1.363)	1286100	250.000	(a)	
	60	trans-1,3-Dichloropropene	75	7.173	7.174	(1.368)	543151	50.0000	(a)	
	61	1,1,2-Trichloroethane	83	7.331	7.331	(1.398)	314771	50.0000	(a)	
	62	Ethyl Methacrylate	69	7.387	7.387	(1.409)	491164	50.0000	(a)	
	63	Dibromochloromethane	129	7.499	7.500	(0.910)	414124	50.0000	(a)	
	64	1,3-Dichloropropane	76	7.593	7.593	(0.921)	657572	50.0000	(a)	
	65	1,2-Dibromoethane	107	7.705	7.705	(1.470)	379349	50.0000	(a)	
	66	2-Hexanone	43	8.008	8.007	(0.971)	851338	250.000	(a)	
*	67	Chlorobenzene-D5	117	8.244	8.244	(1.000)	1323061	50.0000		
	68	Chlorobenzene	112	8.259	8.259	(1.002)	1128504	50.0000	(a)	
	69	Ethylbenzene	91	8.315	8.314	(1.009)	1918241	50.0000	(a)	
	70	1,1,1,2-Tetrachloroethane	131	8.337	8.337	(1.011)	399590	50.0000	(a)	
	71	m+p-Xylenes	91	8.468	8.468	(1.027)	2890847	100.000	(a)	
	72	o-Xylene	91	8.891	8.892	(1.079)	1476139	50.0000	(a)	
	73	Bromoform	173	8.944	8.944	(1.085)	240239	50.0000	(a)	
	74	Styrene	104	8.947	8.948	(1.085)	1231724	50.0000	(a)	
	75	Isopropylbenzene	105	9.217	9.217	(0.870)	1826462	50.0000	(a)	
$	76	P-Bromofluorobenzene	95	9.475	9.475	(1.807)	609262	50.0000	(a)	
	77	Bromobenzene	156	9.561	9.562	(0.903)	473093	50.0000	(a)	
	78	cis-1,4-Dichloro-2-Butene	53	9.565	9.565	(0.903)	115674	50.0000	(a)	

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1990.D
Report Date: 09-Oct-2023 12:50

			QUANT SIG					AMOUNTS			
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)		REVIEW CODE
	79	N-Propylbenzene	91	9.636	9.636	(0.910)	2168226	50.0000		(a)	
	80	1,1,2,2-Tetrachloroethane	83	9.711	9.711	(0.917)	465127	50.0000		(a)	
	81	2-Chlorotoluene	91	9.763	9.764	(0.922)	1267047	50.0000		(a)	
	82	1,2,3-Trichloropropane	75	9.819	9.820	(0.927)	372027	50.0000		(a)	
	83	1,3,5-Trimethylbenzene	105	9.845	9.846	(0.929)	1544393	50.0000		(a)	
	84	trans-1,4-Dichloro-2-Butene	53	9.883	9.883	(0.933)	110409	50.0000		(a)	
	85	4-Chlorotoluene	91	9.932	9.932	(0.937)	1339580	50.0000		(a)	
	86	tert-Butylbenzene	119	10.152	10.153	(0.958)	1280622	50.0000		(a)	
	87	1,2,4-Trimethylbenzene	105	10.227	10.228	(0.965)	1529513	50.0000		(a)	
	88	sec-Butylbenzene	105	10.332	10.332	(0.975)	1830497	50.0000		(a)	
	89	P-Isopropyltoluene	119	10.489	10.490	(0.990)	1579686	50.0000		(a)	
	90	1,3-Dichlorobenzene	146	10.515	10.516	(0.993)	895813	50.0000		(a)	
*	91	1,4-Dichlorobenzene-D4	152	10.594	10.594	(1.000)	719201	50.0000			
	92	1,4-Dichlorobenzene	146	10.609	10.609	(1.001)	932799	50.0000		(a)	
	93	1,2,3-Trimethylbenzene	105	10.658	10.658	(1.006)	1567916	50.0000		(a)	
	94	N-Butylbenzene	91	10.912	10.912	(1.030)	1446480	50.0000		(a)	
	95	1,2-Dichlorobenzene	146	11.024	11.025	(1.041)	850474	50.0000		(a)	
	96	1,2-Dibromo-3-Chloropropane	157	11.848	11.848	(1.118)	75265	50.0000		(a)	
	97	1,3,5-Trichlorobenzene	180	11.885	11.885	(1.122)	570830	50.0000		(a)	
	98	Hexachlorobutadiene	225	12.544	12.544	(1.184)	203068	50.0000		(a)	
	99	1,2,4-Trichlorobenzene	180	12.547	12.548	(1.184)	538408	50.0000		(a)	
	100	Naphthalene	128	12.877	12.877	(1.215)	1231746	50.0000		(a)	
	101	1,2,3-Trichlorobenzene	180	13.068	13.068	(1.233)	474521	50.0000		(a)	
M	103	1,2-Dichloroethylene (total)	96				848194	50.0000		(a)	
M	104	Total Alkylbenzenes	100				11379417	50.0000		(a)	
M	105	Xylenes (total)	91				4366986	150.000		(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1990.D
Date : 26-SEP-2023 09:49
Client ID: Initial Calibration
Sample Info: WG343083-4
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-t.i
Operator: CR
Column diameter: 0.18
Y (x10^6)
Min
\\target_server\gg\chem\gcms-t.i\T092623.b\T1990.D
-Chloromethane (1.217)
Vinyl chloride (1.257)
-Bromomethane (1.456)
-Chloroethane (1.531)
-Trichlorofluoromethane (1.628)
-Diethyl Ether (1.841)
-1,1-Dichloroethene (1.998)+
-Iodomethane (2.077)
-Acrolein (2.227)
-Allyl Chloride (2.339)
-Methylene Chloride (2.425)+
-trans-1,2-Dichloroethene (2.564)+
-Methyl tert-butyl ether (2.665)
-Tertiary-butyl alcohol (2.769)
-Acetonitrile (2.878)
-Di-isopropyl ether (3.054)
-Acrylonitrile (3.196)
-Ethyl tertiary-butyl ethe (3.432)+
-cis-1,2-Dichloroethene (3.701)
-2,2-Dichloropropane (3.806)
-Cyclohexane (3.900)+
-Chloroform (3.997)
-Carbon Tetrachloride (4.135)+
-1,1-Dichloropropene (4.319)+
-Benzene (4.573)
-Propionitrile (4.626)+
-Pentafluorobenzene (4.712)+
-Isobutyl Alcohol (4.891)
-Methylcyclohexane (5.183)+
-1,4-Difluorobenzene (5.259)
-Dibromomethane (5.613)
-1,2-Dichloropropane (5.722)
-Bromodichloromethane (5.812)
-Methyl Methacrylate (6.025)+
-2-Chloroethylvinylether (6.482)+
-Toluene-D8 (6.676)
-Toluene (6.729)
-Tetrachloroethene (7.114)+
-1,1,2-Trichloroethane (7.331)
-Ethyl Methacrylate (7.387)
-Dibromochloromethane (7.496)
-1,3-Dichloropropane (7.593)
-1,2-Dibromoethane (7.709)
-2-Hexanone (8.008)
-Chlorobenzene-D5 (8.248)+
-Ethylbenzene (8.319)+
m+p-Xylenes (8.469)
-o-Xylene (8.892)
-Bromoform (8.948)+
-Isopropylbenzene (9.217)
-P-Bromofluorobenzene (9.475)
-Bromobenzene (9.562)+
-N-Propylbenzene (9.636)
-1,1,2,2-Tetrachloroethane (9.741)
-2-Chlorotoluene (9.764)
-1,2,3-Trichloropropane (9.846)+
-4-Chlorotoluene (9.932)
-tert-Butylbenzene (10.153)
-1,2,4-Trimethylbenzene (10.228)
-sec-Butylbenzene (10.332)
-P-Isopropyltoluene (10.493)+
-1,2,3-Trimethylbenzene (10.658)
1,4-Dichlorobenzene-D4 (10.602)+
-N-Butylbenzene (10.912)
-1,2-Dichlorobenzene (11.025)
-1,2-Dibromo-3-Chloropropa (11.844)
1,3,5-Trichlorobenzene (11.885)
-Hexachlorobutadiene (12.548)+
-Naphthalene (12.877)
-1,2,3-Trichlorobenzene (13.068)

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1991.D
Report Date: 09-Oct-2023 12:50

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T092623.b\T1991.D
Lab Smp Id: WG343083-3 Client Smp ID: Initial Calibration
Inj Date : 26-SEP-2023 10:15
Operator : CR Inst ID: gcms-t.i
Smp Info : WG343083-3
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T092623.b\T826(33)23.m
Meth Date : 27-Sep-2023 10:37 croy Quant Type: ISTD
Cal Date : 26-SEP-2023 10:15 Cal File: T1991.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.089	1.089	(0.232)	157628	20.0000	20.2	
2	Chloromethane	50	1.212	1.213	(0.258)	148890	20.0000	20.2	
3	Vinyl chloride	62	1.257	1.257	(0.267)	143088	20.0000	19.9	
4	Bromomethane	94	1.455	1.456	(0.310)	51271	20.0000	20.2	
5	Chloroethane	64	1.534	1.531	(0.326)	76407	20.0000	21.3	
6	Trichlorofluoromethane	101	1.628	1.628	(0.346)	216721	20.0000	19.3	
7	Diethyl Ether	59	1.837	1.841	(0.391)	84684	20.0000	17.6	
8	1,1-Dichloroethene	96	1.976	1.976	(0.420)	147763	20.0000	19.8	
9	Carbon Disulfide	76	1.994	1.995	(0.424)	339371	20.0000	19.8	
10	Freon-113	151	2.006	2.009	(0.426)	111607	20.0000	19.1	
11	Iodomethane	142	2.077	2.077	(0.442)	87174	20.0000	15.5	
12	Acrolein	56	2.226	2.227	(0.473)	76199	100.000	91.2	
13	Allyl Chloride	41	2.335	2.339	(0.496)	176514	20.0000	18.9	
14	Methylene Chloride	84	2.425	2.425	(0.516)	173654	20.0000	20.3	
15	Acetone	43	2.466	2.466	(0.524)	147603	100.000	99.6	
16	trans-1,2-Dichloroethene	96	2.563	2.564	(0.545)	165232	20.0000	19.5	
17	Methyl Acetate	43	2.582	2.582	(0.549)	85486	20.0000	18.7	
18	Methyl tert-butyl ether	73	2.668	2.665	(0.567)	344618	20.0000	18.8	
19	Tertiary-butyl alcohol	59	2.765	2.769	(0.588)	35135	100.000	92.8	
20	Acetonitrile	41	2.878	2.878	(0.612)	131926	200.000	189	
21	Di-isopropyl ether	45	3.050	3.054	(0.648)	368300	20.0000	18.7	
22	Chloroprene	53	3.128	3.129	(0.665)	196819	20.0000	18.2	
23	1,1-Dichloroethane	63	3.147	3.147	(0.669)	275326	20.0000	20.0	
24	Acrylonitrile	52	3.199	3.196	(0.680)	179391	100.000	94.7	

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1991.D
Report Date: 09-Oct-2023 12:50

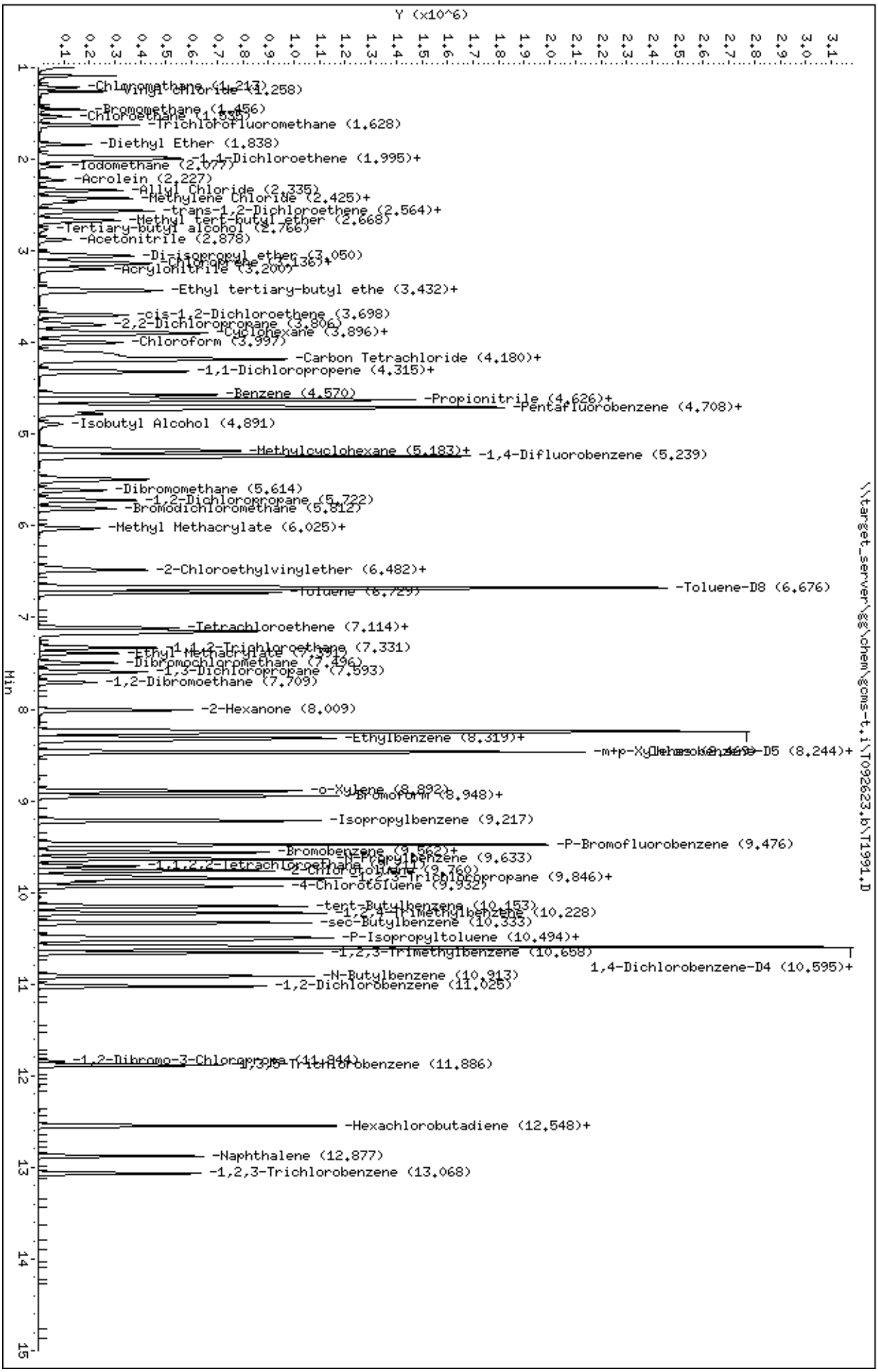
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25 Ethyl tertiary-butyl ether	59	3.428	3.432	(0.729)	333050	20.0000	18.2	
	26 Vinyl Acetate	43	3.431	3.435	(0.655)	263336	20.0000	18.6	
	27 cis-1,2-Dichloroethene	96	3.701	3.705	(0.787)	182697	20.0000	19.7	
	28 2,2-Dichloropropane	77	3.806	3.806	(0.809)	190168	20.0000	18.6	
	29 Cyclohexane	56	3.892	3.896	(0.827)	226114	20.0000	19.4	
	30 Bromochloromethane	128	3.899	3.900	(0.829)	83705	20.0000	19.7	
	31 Chloroform	83	3.996	3.997	(0.850)	288143	20.0000	19.8	
	32 Carbon Tetrachloride	117	4.112	4.117	(0.785)	205826	20.0000	18.7	
	33 Tetrahydrofuran	42	4.146	4.143	(0.881)	152978	100.000	95.1	
$	34 Dibromofluoromethane	113	4.176	4.179	(0.888)	437143	50.0000	50.5	
	35 1,1,1-Trichloroethane	97	4.184	4.187	(0.889)	243086	20.0000	19.1	
	36 1,1-Dichloropropene	75	4.318	4.319	(0.824)	223467	20.0000	19.3	
	37 2-Butanone	43	4.315	4.315	(0.917)	238977	100.000	97.4	
	38 Benzene	78	4.569	4.573	(0.872)	685170	20.0000	19.8	
	39 Propionitrile	54	4.603	4.603	(0.979)	165680	200.000	193	
	40 Methacrylonitrile	41	4.625	4.626	(0.983)	682299	200.000	191	
*	41 Pentafluorobenzene	168	4.704	4.704	(1.000)	860959	50.0000		
$	42 1,2-Dichloroethane-D4	65	4.711	4.712	(1.002)	469809	50.0000	50.3	
	43 Tertiary-amyl methyl ether	73	4.734	4.734	(1.006)	303593	20.0000	17.8	
	44 1,2-Dichloroethane	62	4.782	4.783	(0.913)	199080	20.0000	19.6	
	45 Isobutyl Alcohol	43	4.887	4.891	(1.039)	65438	400.000	357	
	46 Methylcyclohexane	83	5.168	5.172	(1.099)	279873	20.0000	18.6	
	47 Trichloroethene	95	5.187	5.187	(0.990)	175517	20.0000	19.4	
*	48 1,4-Difluorobenzene	114	5.239	5.243	(1.000)	1474111	50.0000		
	49 Dibromomethane	93	5.613	5.610	(1.071)	102663	20.0000	19.3	
	50 1,2-Dichloropropane	63	5.718	5.722	(1.091)	162358	20.0000	19.3	
	51 Bromodichloromethane	83	5.811	5.812	(1.109)	207228	20.0000	18.8	
	52 Methyl Methacrylate	41	6.021	6.025	(1.149)	88643	20.0000	17.3	
	53 1,4-Dioxane	88	6.032	6.029	(1.151)	33238	400.000	410	
	54 2-Chloroethylvinylether	63	6.455	6.455	(1.232)	45245	20.0000	18.1	
	55 cis-1,3-dichloropropene	75	6.481	6.485	(1.237)	253347	20.0000	18.8	
$	56 Toluene-D8	98	6.676	6.676	(1.274)	1722416	50.0000	50.7	
	57 Toluene	92	6.728	6.729	(1.284)	431957	20.0000	19.6	
	58 Tetrachloroethene	164	7.114	7.114	(0.863)	131766	20.0000	18.8	
	59 4-methyl-2-pentanone	43	7.147	7.148	(1.364)	508939	100.000	94.5	
	60 trans-1,3-Dichloropropene	75	7.174	7.174	(1.369)	212464	20.0000	18.7	
	61 1,1,2-Trichloroethane	83	7.327	7.331	(1.399)	129666	20.0000	19.7	
	62 Ethyl Methacrylate	69	7.391	7.387	(1.411)	172908	20.0000	16.8	
	63 Dibromochloromethane	129	7.495	7.500	(0.910)	161996	20.0000	18.6	
	64 1,3-Dichloropropane	76	7.593	7.593	(0.921)	263648	20.0000	19.1	
	65 1,2-Dibromoethane	107	7.705	7.705	(1.471)	150249	20.0000	18.9	
	66 2-Hexanone	43	8.008	8.007	(0.972)	330296	100.000	92.4	
*	67 Chlorobenzene-D5	117	8.240	8.244	(1.000)	1389417	50.0000		
	68 Chlorobenzene	112	8.259	8.259	(1.002)	465674	20.0000	19.6	
	69 Ethylbenzene	91	8.315	8.314	(1.009)	787920	20.0000	19.6	
	70 1,1,1,2-Tetrachloroethane	131	8.337	8.337	(1.012)	157460	20.0000	18.8	
	71 m+p-Xylenes	91	8.468	8.468	(1.028)	1213021	40.0000	40.0	
	72 o-Xylene	91	8.891	8.892	(1.079)	592157	20.0000	19.1	
	73 Bromoform	173	8.944	8.944	(1.085)	88786	20.0000	17.6	
	74 Styrene	104	8.947	8.948	(1.086)	486694	20.0000	18.8	
	75 Isopropylbenzene	105	9.217	9.217	(0.870)	734375	20.0000	19.5	
$	76 P-Bromofluorobenzene	95	9.471	9.475	(1.808)	636301	50.0000	49.9	
	77 Bromobenzene	156	9.561	9.562	(0.903)	191678	20.0000	19.7	
	78 cis-1,4-Dichloro-2-Butene	53	9.561	9.565	(0.903)	42547	20.0000	17.9	

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1991.D
Report Date: 09-Oct-2023 12:50

							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	79 N-Propylbenzene	91	9.632	9.636	(0.909)	887429	20.0000	19.9	
	80 1,1,2,2-Tetrachloroethane	83	9.711	9.711	(0.917)	188285	20.0000	19.6	
	81 2-Chlorotoluene	91	9.763	9.764	(0.922)	517057	20.0000	19.8	
	82 1,2,3-Trichloropropane	75	9.819	9.820	(0.927)	149172	20.0000	19.5	
	83 1,3,5-Trimethylbenzene	105	9.846	9.846	(0.929)	619111	20.0000	19.5	
	84 trans-1,4-Dichloro-2-Butene	53	9.883	9.883	(0.933)	40536	20.0000	17.8	
	85 4-Chlorotoluene	91	9.932	9.932	(0.937)	542562	20.0000	19.7	
	86 tert-Butylbenzene	119	10.152	10.153	(0.958)	510781	20.0000	19.4	
	87 1,2,4-Trimethylbenzene	105	10.224	10.228	(0.965)	617688	20.0000	19.6	
	88 sec-Butylbenzene	105	10.332	10.332	(0.975)	741767	20.0000	19.7	
	89 P-Isopropyltoluene	119	10.489	10.490	(0.990)	626084	20.0000	19.2	
	90 1,3-Dichlorobenzene	146	10.515	10.516	(0.993)	360427	20.0000	19.5	
*	91 1,4-Dichlorobenzene-D4	152	10.594	10.594	(1.000)	740485	50.0000		
	92 1,4-Dichlorobenzene	146	10.609	10.609	(1.001)	375329	20.0000	19.5	
	93 1,2,3-Trimethylbenzene	105	10.658	10.658	(1.006)	613707	20.0000	19.0	
	94 N-Butylbenzene	91	10.912	10.912	(1.030)	574084	20.0000	19.3	
	95 1,2-Dichlorobenzene	146	11.024	11.025	(1.041)	339024	20.0000	19.4	
	96 1,2-Dibromo-3-Chloropropane	157	11.844	11.848	(1.118)	26667	20.0000	17.2	
	97 1,3,5-Trichlorobenzene	180	11.885	11.885	(1.122)	212272	20.0000	18.0	
	98 Hexachlorobutadiene	225	12.544	12.544	(1.184)	82820	20.0000	19.8	
	99 1,2,4-Trichlorobenzene	180	12.548	12.548	(1.184)	200568	20.0000	18.1	
	100 Naphthalene	128	12.877	12.877	(1.215)	443531	20.0000	17.5	
	101 1,2,3-Trichlorobenzene	180	13.068	13.068	(1.233)	183124	20.0000	18.7	
M	103 1,2-Dichloroethylene (total)	96				347929	20.0000	(a)	
M	104 Total Alkylbenzenes	100				4576944	20.0000	(a)	
M	105 Xylenes (total)	91				1805178	60.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1991.D
Date : 26-SEP-2023 10:15
Client ID: Initial Calibration
Sample Info: WG343083-3
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-t.i
Operator: CR
Column diameter: 0.18
Y (x10^6)
Min
\\target_server\gg\chem\gcms-t.i\T092623.b\T1991.D
-Chloromethane (1.213)
-Vinyl Chloride (1.258)
-Bromomethane (1.456)
-Chloroethane (1.536)
-Trichlorofluoromethane (1.628)
-Diethyl Ether (1.838)
-1,1-Dichloroethene (1.995)+
-Iodomethane (2.077)
-Acrolein (2.227)
-Allyl Chloride (2.335)
-Methylene Chloride (2.425)+
-trans-1,2-Dichloroethene (2.564)+
-Methyl tert-butyl ether (2.668)
-Tertiary-butyl alcohol (2.766)
-Acetonitrile (2.878)
-Diisopropyl ether (3.050)
-Chloroprene (3.136)+
-Acrylonitrile (3.200)
-Ethyl tertiary-butyl ethe (3.432)+
-cis-1,2-Dichloroethene (3.698)
-2,2-Dichloropropane (3.806)
-Cyclohexane (3.896)+
-Chloroform (3.997)
-Carbon Tetrachloride (4.180)+
-1,1-Dichloropropene (4.315)+
-Benzene (4.570)
-Propionitrile (4.626)+
-Pentafluorobenzene (4.708)+
-Isobutyl Alcohol (4.891)
-Methylcyclohexane (5.183)+
-1,4-Difluorobenzene (5.239)
-Dibromomethane (5.614)
-1,2-Dichloropropane (5.722)
-Bromodichloromethane (5.812)
-Methyl Methacrylate (6.025)+
-2-Chloroethylvinylether (6.482)+
-Toluene (6.729)
-Toluene-D8 (6.676)
-Tetrachloroethene (7.114)+
-1,1,2-Trichloroethane (7.331)
-Ethyl Methacrylate (7.378)
-Dibromochloromethane (7.496)
-1,3-Dichloropropane (7.593)
-1,2-Dibromoethane (7.709)
-2-Hexanone (8.009)
-Ethylbenzene (8.319)+
-m+p-Xylenes (8.469)+
-D5 (8.244)+
-o-Xylene (8.892)
-Bromoform (8.948)+
-Isopropylbenzene (9.217)
-P-Bromofluorobenzene (9.476)
-Bromobenzene (9.562)+
-N-Propylbenzene (9.633)
-1,1,2,2-Tetrachloroethane (9.717)
-2-Chlorotoluene (9.760)
-1,2,3-Trichloropropane (9.846)+
-4-Chlorotoluene (9.932)
-tert-Butylbenzene (10.153)
-1,2,4-Trimethylbenzene (10.228)
-sec-Butylbenzene (10.333)
-P-Isopropyltoluene (10.494)+
-1,2,3-Trimethylbenzene (10.658)
1,4-Dichlorobenzene-D4 (10.595)+
-N-Butylbenzene (10.913)
-1,2-Dichlorobenzene (11.025)
-1,2-Dibromo-3-Chloropropa (11.844)
1,3,5-Trichlorobenzene (11.886)
-Hexachlorobutadiene (12.548)+
-Naphthalene (12.877)
-1,2,3-Trichlorobenzene (13.068)

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1992.D
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Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T092623.b\T1992.D
Lab Smp Id: WG343083-8 Client Smp ID: Initial Calibration
Inj Date : 26-SEP-2023 10:41
Operator : CR Inst ID: gcms-t.i
Smp Info : WG343083-8
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T092623.b\T826(33)23.m
Meth Date : 27-Sep-2023 10:37 croy Quant Type: ISTD
Cal Date : 26-SEP-2023 10:41 Cal File: T1992.D
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.089	1.089	(0.232)	76723	10.0000	10.6	
2	Chloromethane	50	1.212	1.213	(0.258)	80194	10.0000	11.8	
3	Vinyl chloride	62	1.257	1.257	(0.267)	72218	10.0000	11.0	
4	Bromomethane	94	1.455	1.456	(0.309)	26823	10.0000	11.4	
5	Chloroethane	64	1.538	1.531	(0.327)	39788	10.0000	12.0	
6	Trichlorofluoromethane	101	1.631	1.628	(0.347)	109105	10.0000	10.8	
7	Diethyl Ether	59	1.841	1.841	(0.391)	43344	10.0000	10.4	
8	1,1-Dichloroethene	96	1.976	1.976	(0.420)	73845	10.0000	10.8	
9	Carbon Disulfide	76	1.994	1.995	(0.424)	173407	10.0000	11.1	
10	Freon-113	151	2.009	2.009	(0.427)	56197	10.0000	10.7	
11	Iodomethane	142	2.080	2.077	(0.442)	36852	10.0000	7.32	
12	Acrolein	56	2.223	2.227	(0.473)	39636	50.0000	54.0	
13	Allyl Chloride	41	2.339	2.339	(0.497)	91161	10.0000	10.9	
14	Methylene Chloride	84	2.425	2.425	(0.516)	88055	10.0000	11.1	
15	Acetone	43	2.466	2.466	(0.524)	74074	50.0000	54.4	
16	trans-1,2-Dichloroethene	96	2.563	2.564	(0.545)	86063	10.0000	11.2	
17	Methyl Acetate	43	2.586	2.582	(0.550)	43063	10.0000	10.6	
18	Methyl tert-butyl ether	73	2.668	2.665	(0.567)	162381	10.0000	9.94	
19	Tertiary-butyl alcohol	59	2.773	2.769	(0.590)	16615	50.0000	49.6	
20	Acetonitrile	41	2.877	2.878	(0.612)	67863	100.000	109	
21	Di-isopropyl ether	45	3.053	3.054	(0.649)	182780	10.0000	10.4	
22	Chloroprene	53	3.128	3.129	(0.665)	99604	10.0000	10.5	
23	1,1-Dichloroethane	63	3.151	3.147	(0.670)	140083	10.0000	11.1	
24	Acrylonitrile	52	3.195	3.196	(0.679)	89579	50.0000	52.9	

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1992.D
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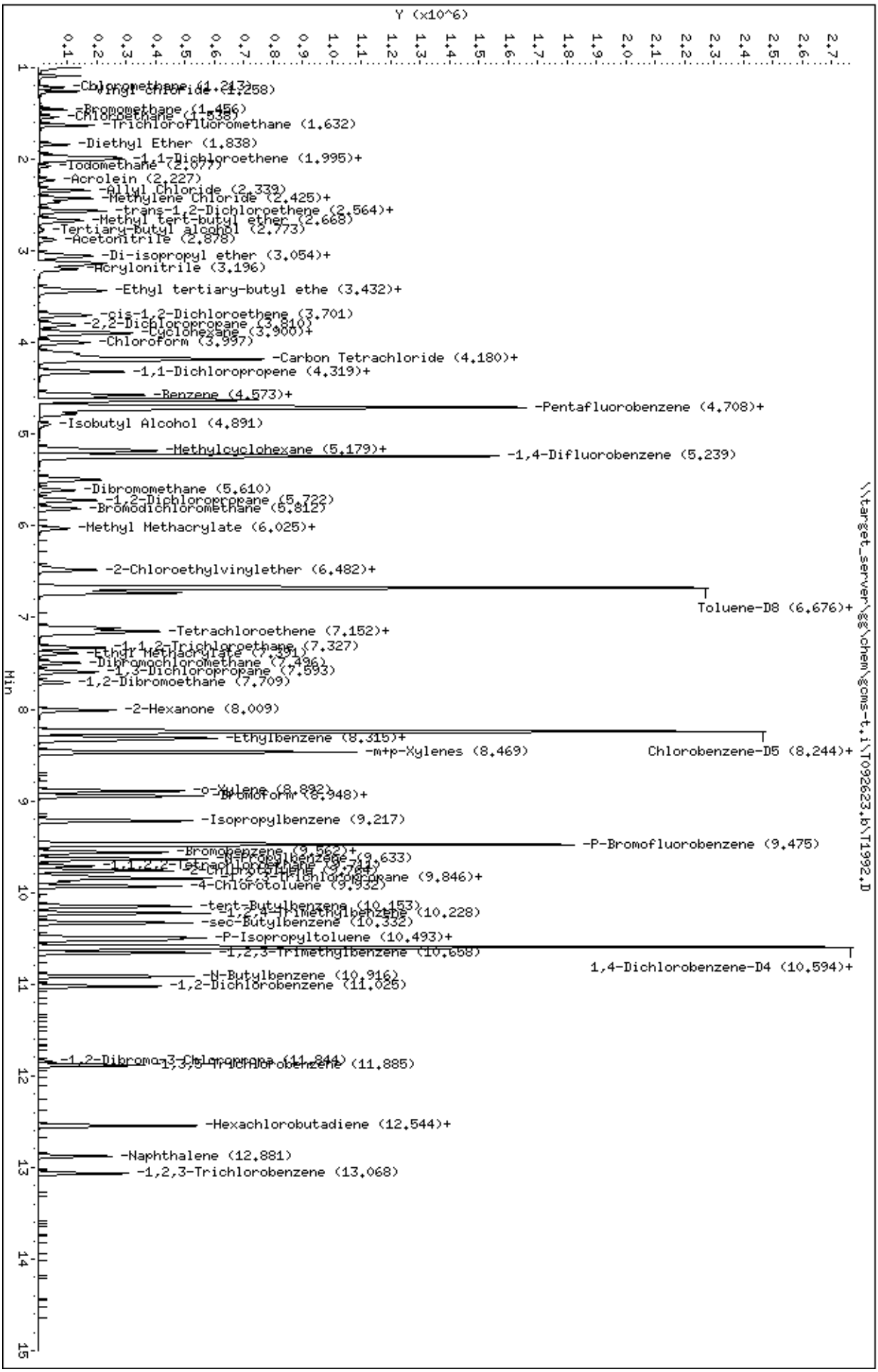
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25 Ethyl tertiary-butyl ether	59	3.428	3.432	(0.729)	160465	10.0000	10.0	
	26 Vinyl Acetate	43	3.435	3.435	(0.656)	122758	10.0000	9.60	
	27 cis-1,2-Dichloroethene	96	3.701	3.705	(0.787)	89888	10.0000	10.6	
	28 2,2-Dichloropropane	77	3.813	3.806	(0.811)	93488	10.0000	10.3	
	29 Cyclohexane	56	3.899	3.896	(0.829)	107303	10.0000	10.2	
	30 Bromochloromethane	128	3.903	3.900	(0.830)	41791	10.0000	10.8	
	31 Chloroform	83	3.996	3.997	(0.850)	147500	10.0000	11.1	
	32 Carbon Tetrachloride	117	4.112	4.117	(0.785)	102461	10.0000	10.3	
	33 Tetrahydrofuran	42	4.146	4.143	(0.881)	72462	50.0000	50.3	
$	34 Dibromofluoromethane	113	4.180	4.179	(0.889)	400682	50.0000	50.1	
	35 1,1,1-Trichloroethane	97	4.183	4.187	(0.889)	123763	10.0000	10.8	
	36 1,1-Dichloropropene	75	4.318	4.319	(0.824)	112051	10.0000	10.5	
	37 2-Butanone	43	4.314	4.315	(0.917)	114875	50.0000	51.6	
	38 Benzene	78	4.573	4.573	(0.873)	355757	10.0000	11.0	
	39 Propionitrile	54	4.603	4.603	(0.979)	85298	100.000	110	
	40 Methacrylonitrile	41	4.625	4.626	(0.983)	344641	100.000	108	
*	41 Pentafluorobenzene	168	4.704	4.704	(1.000)	790928	50.0000		
$	42 1,2-Dichloroethane-D4	65	4.707	4.712	(1.001)	430769	50.0000	50.1	
	43 Tertiary-amyl methyl ether	73	4.734	4.734	(1.006)	147486	10.0000	9.95	
	44 1,2-Dichloroethane	62	4.778	4.783	(0.912)	99789	10.0000	10.6	
	45 Isobutyl Alcohol	43	4.894	4.891	(1.041)	28823	200.000	173	
	46 Methylcyclohexane	83	5.171	5.172	(1.099)	137725	10.0000	10.3	
	47 Trichloroethene	95	5.186	5.187	(0.990)	88073	10.0000	10.6	
*	48 1,4-Difluorobenzene	114	5.239	5.243	(1.000)	1378636	50.0000		
	49 Dibromomethane	93	5.609	5.610	(1.071)	50387	10.0000	10.3	
	50 1,2-Dichloropropane	63	5.725	5.722	(1.093)	82838	10.0000	10.7	
	51 Bromodichloromethane	83	5.811	5.812	(1.109)	101399	10.0000	10.2	
	52 Methyl Methacrylate	41	6.025	6.025	(1.150)	41428	10.0000	9.27	
	53 1,4-Dioxane	88	6.028	6.029	(1.151)	14832	200.000	193	
	54 2-Chloroethylvinylether	63	6.459	6.455	(1.233)	20313	10.0000	9.12	
	55 cis-1,3-dichloropropene	75	6.481	6.485	(1.237)	116502	10.0000	9.53	
$	56 Toluene-D8	98	6.676	6.676	(1.274)	1593714	50.0000	49.8	
	57 Toluene	92	6.728	6.729	(1.284)	223849	10.0000	11.0	
	58 Tetrachloroethene	164	7.114	7.114	(0.863)	65674	10.0000	10.4	
	59 4-methyl-2-pentanone	43	7.147	7.148	(1.364)	236995	50.0000	48.4	
	60 trans-1,3-Dichloropropene	75	7.173	7.174	(1.369)	101289	10.0000	9.85	
	61 1,1,2-Trichloroethane	83	7.327	7.331	(1.399)	62559	10.0000	10.2	
	62 Ethyl Methacrylate	69	7.391	7.387	(1.411)	78447	10.0000	8.32	
	63 Dibromochloromethane	129	7.495	7.500	(0.909)	76227	10.0000	9.81	
	64 1,3-Dichloropropane	76	7.596	7.593	(0.921)	129784	10.0000	10.4	
	65 1,2-Dibromoethane	107	7.709	7.705	(1.471)	72534	10.0000	10.0	
	66 2-Hexanone	43	8.008	8.007	(0.971)	149547	50.0000	47.0	
*	67 Chlorobenzene-D5	117	8.244	8.244	(1.000)	1285946	50.0000		
	68 Chlorobenzene	112	8.259	8.259	(1.002)	233907	10.0000	10.8	
	69 Ethylbenzene	91	8.315	8.314	(1.009)	401197	10.0000	10.9	
	70 1,1,1,2-Tetrachloroethane	131	8.337	8.337	(1.011)	78545	10.0000	10.4	
	71 m+p-Xylenes	91	8.468	8.468	(1.027)	614897	20.0000	21.9	
	72 o-Xylene	91	8.891	8.892	(1.079)	287050	10.0000	10.2	
	73 Bromoform	173	8.944	8.944	(1.085)	39760	10.0000	9.06	
	74 Styrene	104	8.947	8.948	(1.085)	230156	10.0000	9.91	
	75 Isopropylbenzene	105	9.221	9.217	(0.870)	352935	10.0000	10.4	
$	76 P-Bromofluorobenzene	95	9.475	9.475	(1.809)	582484	50.0000	48.9	
	77 Bromobenzene	156	9.561	9.562	(0.903)	93119	10.0000	10.6	
	78 cis-1,4-Dichloro-2-Butene	53	9.565	9.565	(0.903)	20060	10.0000	9.76	

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1992.D
Report Date: 09-Oct-2023 12:50

								AMOUNTS		
			QUANT SIG					CAL-AMT	ON-COL	
	Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	79	N-Propylbenzene	91	9.632	9.636	(0.909)	441330	10.0000	10.9	
	80	1,1,2,2-Tetrachloroethane	83	9.711	9.711	(0.917)	89867	10.0000	10.4	
	81	2-Chlorotoluene	91	9.759	9.764	(0.921)	258969	10.0000	10.9	
	82	1,2,3-Trichloropropane	75	9.819	9.820	(0.927)	71751	10.0000	10.4	
	83	1,3,5-Trimethylbenzene	105	9.845	9.846	(0.929)	304187	10.0000	10.6	
	84	trans-1,4-Dichloro-2-Butene	53	9.883	9.883	(0.933)	19557	10.0000	9.98	
	85	4-Chlorotoluene	91	9.932	9.932	(0.937)	267888	10.0000	10.7	
	86	tert-Butylbenzene	119	10.152	10.153	(0.958)	249397	10.0000	10.5	
	87	1,2,4-Trimethylbenzene	105	10.227	10.228	(0.965)	303214	10.0000	10.7	
	88	sec-Butylbenzene	105	10.332	10.332	(0.975)	359841	10.0000	10.6	
	89	P-Isopropyltoluene	119	10.489	10.490	(0.990)	299644	10.0000	10.3	
	90	1,3-Dichlorobenzene	146	10.515	10.516	(0.993)	177665	10.0000	10.7	
*	91	1,4-Dichlorobenzene-D4	152	10.594	10.594	(1.000)	674788	50.0000		
	92	1,4-Dichlorobenzene	146	10.609	10.609	(1.001)	186390	10.0000	10.8	
	93	1,2,3-Trimethylbenzene	105	10.658	10.658	(1.006)	312945	10.0000	10.9	
	94	N-Butylbenzene	91	10.916	10.912	(1.030)	276142	10.0000	10.4	
	95	1,2-Dichlorobenzene	146	11.024	11.025	(1.041)	163054	10.0000	10.4	
	96	1,2-Dibromo-3-Chloropropane	157	11.851	11.848	(1.119)	12677	10.0000	9.65	
	97	1,3,5-Trichlorobenzene	180	11.885	11.885	(1.122)	107073	10.0000	10.5	
	98	Hexachlorobutadiene	225	12.544	12.544	(1.184)	41236	10.0000	10.9	
	99	1,2,4-Trichlorobenzene	180	12.544	12.548	(1.184)	88650	10.0000	9.21	
	100	Naphthalene	128	12.880	12.877	(1.216)	181619	10.0000	7.98	
	101	1,2,3-Trichlorobenzene	180	13.068	13.068	(1.233)	84587	10.0000	9.81	
M	103	1,2-Dichloroethylene (total)	96				175951	10.0000	(a)	
M	104	Total Alkylbenzenes	100				2233755	10.0000	(a)	
M	105	Xylenes (total)	91				901947	10.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1992.D
Date : 26-SEP-2023 10:41
Client ID: Initial Calibration
Sample Info: WG343083-8
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-t.i
Operator: CR
Column diameter: 0.18
\\target_server\gg\chem\gcms-t.i\T092623.b\T1992.D
Y (x10^6)
Min
-Chloromethane (1.213)
-Vinyl chloride (1.258)
-Bromomethane (1.456)
-Chloroethane (1.538)
-Trichlorofluoromethane (1.632)
-Diethyl Ether (1.838)
-1,1-Dichloroethene (1.995)+
-Iodomethane (2.077)
-Acrolein (2.227)
-Allyl Chloride (2.339)
-Methylene Chloride (2.425)+
-trans-1,2-Dichloroethene (2.564)+
-Methyl tert-butyl ether (2.668)
-Tertiary-butyl alcohol (2.773)
-Acetonitrile (2.878)
-Di-isopropyl ether (3.054)+
-Acrylonitrile (3.196)
-Ethyl tertiary-butyl ethe (3.432)+
-cis-1,2-Dichloroethene (3.701)
-2,2-Dichloropropane (3.810)
-Cyclohexane (3.900)+
-Chloroform (3.997)
-Carbon Tetrachloride (4.180)+
-1,1-Dichloropropene (4.319)+
-Benzene (4.573)+
-Pentafluorobenzene (4.708)+
-Isobutyl Alcohol (4.891)
-Methylcyclohexane (5.179)+
-1,4-Difluorobenzene (5.239)
-Dibromomethane (5.610)
-1,2-Dichloropropane (5.722)
-Bromodichloromethane (5.812)
-Methyl Methacrylate (6.025)+
-2-Chloroethylvinylether (6.482)+
Toluene-D8 (6.676)+
-Tetrachloroethene (7.152)+
-1,1,2-Trichloroethane (7.327)
-Ethyl Methacrylate (7.391)
-Dibromochloromethane (7.496)
-1,3-Dichloropropane (7.593)
-1,2-Dibromoethane (7.709)
-2-Hexanone (8.009)
-Ethylbenzene (8.315)+
-m+p-Xylenes (8.469)
Chlorobenzene-D5 (8.244)+
-o-Xylene (8.882)
-Bromoform (8.948)+
-Isopropylbenzene (9.217)
-P-Bromofluorobenzene (9.475)
-Bromobenzene (9.562)+
-Dibromofluoromethane (9.633)
-1,1,2,2-Tetrachloroethane (9.711)
-2-Chlorotoluene (9.784)
-1,2,3-Trichloropropane (9.846)+
-4-Chlorotoluene (9.932)
-tert-Butylbenzene (10.153)
-1,2,4-Trimethylbenzene (10.228)
-sec-Butylbenzene (10.332)
-P-Isopropyltoluene (10.493)+
-1,2,3-Trimethylbenzene (10.658)
1,4-Dichlorobenzene-D4 (10.594)+
-N-Butylbenzene (10.916)
-1,2-Dichlorobenzene (11.025)
-1,2-Dibromo-3-Chloropropane (11.844)
-1,3,5-Trichlorobenzene (11.885)
-Hexachlorobutadiene (12.544)+
-Naphthalene (12.881)
-1,2,3-Trichlorobenzene (13.068)

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1993.D
Report Date: 09-Oct-2023 12:50

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T092623.b\T1993.D
Lab Smp Id: WG343083-2 Client Smp ID: Initial Calibration
Inj Date : 26-SEP-2023 11:07
Operator : CR Inst ID: gcms-t.i
Smp Info : WG343083-2
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T092623.b\T826(33)23.m
Meth Date : 27-Sep-2023 10:37 croy Quant Type: ISTD
Cal Date : 26-SEP-2023 11:07 Cal File: T1993.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.089	1.089	(0.232)	40718	5.00000	5.57	
2	Chloromethane	50	1.212	1.213	(0.258)	38297	5.00000	5.35	
3	Vinyl chloride	62	1.257	1.257	(0.267)	36056	5.00000	5.34	
4	Bromomethane	94	1.455	1.456	(0.309)	13009	5.00000	5.33	
5	Chloroethane	64	1.538	1.531	(0.327)	21411	5.00000	6.44	
6	Trichlorofluoromethane	101	1.631	1.628	(0.347)	56917	5.00000	5.52	
7	Diethyl Ether	59	1.841	1.841	(0.391)	22900	5.00000	5.47	
8	1,1-Dichloroethene	96	1.975	1.976	(0.420)	37069	5.00000	5.33	
9	Carbon Disulfide	76	1.990	1.995	(0.423)	83253	5.00000	5.17	
10	Freon-113	151	2.013	2.009	(0.428)	29848	5.00000	5.60	
11	Iodomethane	142	2.076	2.077	(0.442)	15361	5.00000	4.21	
12	Acrolein	56	2.230	2.227	(0.474)	18811	25.0000	25.2	
13	Allyl Chloride	41	2.338	2.339	(0.497)	42787	5.00000	5.02	
14	Methylene Chloride	84	2.424	2.425	(0.516)	45516	5.00000	5.58	
15	Acetone	43	2.462	2.466	(0.523)	46882	25.0000	33.8	
16	trans-1,2-Dichloroethene	96	2.563	2.564	(0.545)	41726	5.00000	5.26	
17	Methyl Acetate	43	2.582	2.582	(0.549)	22566	5.00000	5.49	
18	Methyl tert-butyl ether	73	2.668	2.665	(0.567)	78142	5.00000	4.83	
19	Tertiary-butyl alcohol	59	2.765	2.769	(0.588)	7842	25.0000	23.6	
20	Acetonitrile	41	2.877	2.878	(0.612)	35202	50.0000	55.2	
21	Di-isopropyl ether	45	3.053	3.054	(0.649)	85620	5.00000	4.85	
22	Chloroprene	53	3.128	3.129	(0.665)	46498	5.00000	4.85	
23	1,1-Dichloroethane	63	3.147	3.147	(0.669)	68724	5.00000	5.29	
24	Acrylonitrile	52	3.195	3.196	(0.679)	44972	25.0000	26.2	

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1993.D
Report Date: 09-Oct-2023 12:50

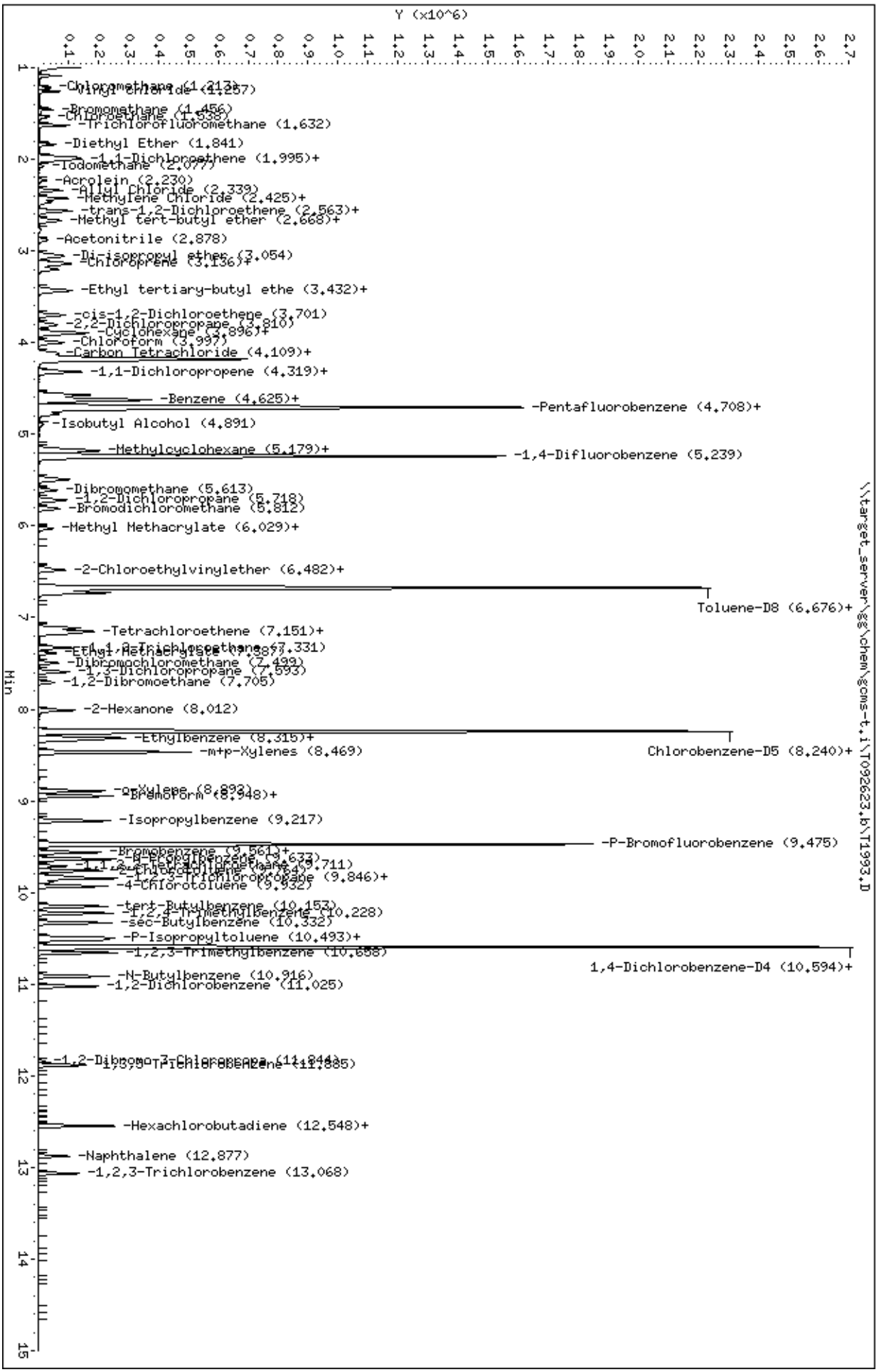
							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25 Ethyl tertiary-butyl ether	59	3.431	3.432	(0.730)	75180	5.00000	4.72	
	26 Vinyl Acetate	43	3.435	3.435	(0.656)	56001	5.00000	4.49	
	27 cis-1,2-Dichloroethene	96	3.697	3.705	(0.786)	43178	5.00000	5.04	
	28 2,2-Dichloropropane	77	3.805	3.806	(0.809)	43408	5.00000	4.78	
	29 Cyclohexane	56	3.899	3.896	(0.829)	51852	5.00000	4.92	
	30 Bromochloromethane	128	3.899	3.900	(0.829)	19961	5.00000	5.06	
	31 Chloroform	83	3.996	3.997	(0.850)	71542	5.00000	5.22	
	32 Carbon Tetrachloride	117	4.109	4.117	(0.784)	50057	5.00000	5.03	
	33 Tetrahydrofuran	42	4.146	4.143	(0.881)	34824	25.0000	24.3	
$	34 Dibromofluoromethane	113	4.180	4.179	(0.889)	396451	50.0000	49.9	
	35 1,1,1-Trichloroethane	97	4.187	4.187	(0.890)	59356	5.00000	5.09	
	36 1,1-Dichloropropene	75	4.318	4.319	(0.824)	53935	5.00000	5.04	
	37 2-Butanone	43	4.318	4.315	(0.918)	60842	25.0000	27.2	
	38 Benzene	78	4.573	4.573	(0.873)	169877	5.00000	5.15	
	39 Propionitrile	54	4.602	4.603	(0.979)	41435	50.0000	52.1	
	40 Methacrylonitrile	41	4.629	4.626	(0.984)	175846	50.0000	53.9	
*	41 Pentafluorobenzene	168	4.704	4.704	(1.000)	785102	50.0000		
$	42 1,2-Dichloroethane-D4	65	4.711	4.712	(1.002)	430975	50.0000	50.4	
	43 Tertiary-amyl methyl ether	73	4.733	4.734	(1.006)	71214	5.00000	4.85	
	44 1,2-Dichloroethane	62	4.786	4.783	(0.914)	51943	5.00000	5.47	
	45 Isobutyl Alcohol	43	4.891	4.891	(1.040)	12147	100.000	73.9	
	46 Methylcyclohexane	83	5.171	5.172	(1.099)	63605	5.00000	4.75	
	47 Trichloroethene	95	5.186	5.187	(0.990)	44459	5.00000	5.30	
*	48 1,4-Difluorobenzene	114	5.239	5.243	(1.000)	1363084	50.0000		
	49 Dibromomethane	93	5.609	5.610	(1.071)	25344	5.00000	5.19	
	50 1,2-Dichloropropane	63	5.725	5.722	(1.093)	39868	5.00000	5.10	
	51 Bromodichloromethane	83	5.807	5.812	(1.109)	49434	5.00000	4.98	
	52 Methyl Methacrylate	41	6.028	6.025	(1.151)	18255	5.00000	4.23	
	53 1,4-Dioxane	88	6.028	6.029	(1.151)	6775	100.000	90.3	
	54 2-Chloroethylvinylether	63	6.455	6.455	(1.232)	9365	5.00000	4.38	
	55 cis-1,3-dichloropropene	75	6.485	6.485	(1.238)	55312	5.00000	4.65	
$	56 Toluene-D8	98	6.676	6.676	(1.274)	1576381	50.0000	49.9	
	57 Toluene	92	6.724	6.729	(1.284)	107446	5.00000	5.16	
	58 Tetrachloroethene	164	7.114	7.114	(0.863)	33892	5.00000	5.43	
	59 4-methyl-2-pentanone	43	7.151	7.148	(1.365)	112138	25.0000	23.4	
	60 trans-1,3-Dichloropropene	75	7.177	7.174	(1.370)	47444	5.00000	4.69	
	61 1,1,2-Trichloroethane	83	7.331	7.331	(1.399)	31422	5.00000	5.16	
	62 Ethyl Methacrylate	69	7.387	7.387	(1.410)	33302	5.00000	3.59	
	63 Dibromochloromethane	129	7.499	7.500	(0.910)	35956	5.00000	4.76	
	64 1,3-Dichloropropane	76	7.593	7.593	(0.921)	64568	5.00000	5.21	
	65 1,2-Dibromoethane	107	7.705	7.705	(1.471)	35294	5.00000	4.93	
	66 2-Hexanone	43	8.012	8.007	(0.972)	70378	25.0000	23.0	
*	67 Chlorobenzene-D5	117	8.240	8.244	(1.000)	1258328	50.0000		
	68 Chlorobenzene	112	8.259	8.259	(1.002)	116474	5.00000	5.34	
	69 Ethylbenzene	91	8.315	8.314	(1.009)	188571	5.00000	5.08	
	70 1,1,1,2-Tetrachloroethane	131	8.337	8.337	(1.012)	37480	5.00000	5.02	
	71 m+p-Xylenes	91	8.468	8.468	(1.028)	287197	10.0000	10.1	
	72 o-Xylene	91	8.891	8.892	(1.079)	127211	5.00000	4.60	
	73 Bromoform	173	8.943	8.944	(1.085)	19415	5.00000	4.67	
	74 Styrene	104	8.947	8.948	(1.086)	104405	5.00000	4.61	
	75 Isopropylbenzene	105	9.220	9.217	(0.870)	161969	5.00000	4.82	
$	76 P-Bromofluorobenzene	95	9.475	9.475	(1.809)	576801	50.0000	49.3	
	77 Bromobenzene	156	9.561	9.562	(0.903)	45860	5.00000	5.22	
	78 cis-1,4-Dichloro-2-Butene	53	9.561	9.565	(0.903)	9741	5.00000	4.88	

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1993.D
Report Date: 09-Oct-2023 12:50

							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	79 N-Propylbenzene	91	9.636	9.636	(0.910)	206485	5.00000	5.06	
	80 1,1,2,2-Tetrachloroethane	83	9.711	9.711	(0.917)	45559	5.00000	5.31	
	81 2-Chlorotoluene	91	9.763	9.764	(0.922)	121491	5.00000	5.09	
	82 1,2,3-Trichloropropane	75	9.823	9.820	(0.927)	37227	5.00000	5.45	
	83 1,3,5-Trimethylbenzene	105	9.845	9.846	(0.929)	139609	5.00000	4.89	
	84 trans-1,4-Dichloro-2-Butene	53	9.883	9.883	(0.933)	9372	5.00000	4.89	
	85 4-Chlorotoluene	91	9.931	9.932	(0.937)	128416	5.00000	5.14	
	86 tert-Butylbenzene	119	10.152	10.153	(0.958)	110469	5.00000	4.69	
	87 1,2,4-Trimethylbenzene	105	10.227	10.228	(0.965)	135999	5.00000	4.78	
	88 sec-Butylbenzene	105	10.332	10.332	(0.975)	167978	5.00000	4.95	
	89 P-Isopropyltoluene	119	10.489	10.490	(0.990)	131808	5.00000	4.59	
	90 1,3-Dichlorobenzene	146	10.515	10.516	(0.993)	87236	5.00000	5.24	
*	91 1,4-Dichlorobenzene-D4	152	10.594	10.594	(1.000)	660090	50.0000		
	92 1,4-Dichlorobenzene	146	10.609	10.609	(1.001)	91785	5.00000	5.29	
	93 1,2,3-Trimethylbenzene	105	10.657	10.658	(1.006)	145702	5.00000	5.04	
	94 N-Butylbenzene	91	10.916	10.912	(1.030)	122086	5.00000	4.63	
	95 1,2-Dichlorobenzene	146	11.024	11.025	(1.041)	79903	5.00000	5.14	
	96 1,2-Dibromo-3-Chloropropane	157	11.847	11.848	(1.118)	5982	5.00000	4.71	
	97 1,3,5-Trichlorobenzene	180	11.889	11.885	(1.122)	49894	5.00000	4.92	
	98 Hexachlorobutadiene	225	12.544	12.544	(1.184)	19601	5.00000	5.13	
	99 1,2,4-Trichlorobenzene	180	12.547	12.548	(1.184)	40374	5.00000	4.40	
	100 Naphthalene	128	12.877	12.877	(1.215)	74210	5.00000	3.35	
	101 1,2,3-Trichlorobenzene	180	13.067	13.068	(1.233)	38974	5.00000	4.65	
M	103 1,2-Dichloroethylene (total)	96				84904	5.00000	(a)	
M	104 Total Alkylbenzenes	100				1014434	5.00000	(a)	
M	105 Xylenes (total)	91				414408	15.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1993.D
Date : 26-SEP-2023 11:07
Client ID: Initial Calibration
Sample Info: WG343083-2
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-t.i
Operator: CR
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane (1.213)
-Vinyl Chloride (1.257)
-Bromomethane (1.456)
-Chloroethane (1.538)
-Trichlorofluoromethane (1.632)
-Diethyl Ether (1.841)
-1,1-Dichloroethene (1.995)+
-Iodomethane (2.077)
-Acrolein (2.230)
-Allyl Chloride (2.339)
-Methylene Chloride (2.425)+
-trans-1,2-Dichloroethene (2.563)+
-Methyl tert-butyl ether (2.668)+
-Acetonitrile (2.878)
-Di-isopropyl ether (3.054)
-Chloroprene (3.136)+
-Ethyl tertiary-butyl ethe (3.432)+
-cis-1,2-Dichloroethene (3.701)
-2,2-Dichloropropane (3.810)
-Cyclohexane (3.896)+
-Chloroform (3.997)
-Carbon Tetrachloride (4.109)+
-1,1-Dichloropropene (4.319)+
-Benzene (4.625)+
-Pentafluorobenzene (4.708)+
-Isobutyl Alcohol (4.891)
-Methylcyclohexane (5.179)+
-1,4-Difluorobenzene (5.239)
-Dibromomethane (5.613)
-1,2-Dichloropropane (5.718)
-Bromodichloromethane (5.812)
-Methyl Methacrylate (6.029)+
-2-Chloroethylvinylether (6.482)+
Toluene-D8 (6.676)+
-Tetrachloroethene (7.151)+
-Ethyl Methacrylate (7.387)
-Dibromochloromethane (7.499)
-1,3-Dichloropropane (7.593)
-1,2-Dibromoethane (7.705)
-2-Hexanone (8.012)
-Ethylbenzene (8.315)+
-m+p-Xylenes (8.469)
Chlorobenzene-D5 (8.240)+
-o-Xylene (8.892)
-Bromoform (8.948)+
-Isopropylbenzene (9.217)
-P-Bromofluorobenzene (9.475)
-Bromobenzene (9.561)+
-n-Propylbenzene (9.633)
-1,1,2,2-Tetrachloroethane (9.711)
-2-Chlorotoluene (9.764)+
-1,3,5-Trichlorobenzene (9.846)+
-4-Chlorotoluene (9.932)
-tert-Butylbenzene (10.153)
-1,2,4-Trimethylbenzene (10.228)
-sec-Butylbenzene (10.332)
-P-Isopropyltoluene (10.493)+
-1,2,3-Trimethylbenzene (10.658)
1,4-Dichlorobenzene-D4 (10.594)+
-N-Butylbenzene (10.916)
-1,2-Dichlorobenzene (11.025)
-1,2-Dibromo-3-Chloropropane (11.844)
-1,2,4-Trichlorobenzene (11.885)
-Hexachlorobutadiene (12.548)+
-Naphthalene (12.877)
-1,2,3-Trichlorobenzene (13.068)
\\target_server\gg\chem\gcms-t.i\T092623.b\T1993.D

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1994.D
Report Date: 09-Oct-2023 12:50

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T092623.b\T1994.D
Lab Smp Id: WG343083-1 Client Smp ID: Initial Calibration
Inj Date : 26-SEP-2023 11:34
Operator : CR Inst ID: gcms-t.i
Smp Info : WG343083-1
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T092623.b\T826(33)23.m
Meth Date : 27-Sep-2023 10:37 croy Quant Type: ISTD
Cal Date : 26-SEP-2023 11:34 Cal File: T1994.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.089	1.089	(0.232)	8132	1.00000	1.15	
2	Chloromethane	50	1.212	1.213	(0.258)	7856	1.00000	1.14	
3	Vinyl chloride	62	1.261	1.257	(0.268)	8079	1.00000	1.24	
4	Bromomethane	94	1.459	1.456	(0.310)	2564	1.00000	1.09	
5	Chloroethane	64	1.541	1.531	(0.328)	4717	1.00000	1.50	
6	Trichlorofluoromethane	101	1.631	1.628	(0.347)	12049	1.00000	1.21	
7	Diethyl Ether	59	1.837	1.841	(0.391)	4734	1.00000	1.17	
8	1,1-Dichloroethene	96	1.975	1.976	(0.420)	6715	1.00000	1.01	
9	Carbon Disulfide	76	1.994	1.995	(0.424)	15440	1.00000	1.01	
10	Freon-113	151	2.013	2.009	(0.428)	5795	1.00000	1.12	
11	Iodomethane	142	2.080	2.077	(0.442)	2494	1.00000	0.742(a)	
12	Acrolein	56	2.222	2.227	(0.473)	3673	5.00000	5.19	
13	Allyl Chloride	41	2.338	2.339	(0.497)	6880	1.00000	0.853(a)	
14	Methylene Chloride	84	2.425	2.425	(0.516)	9677	1.00000	1.22(a)	
15	Acetone	43	2.462	2.466	(0.523)	9759	5.00000	7.11	
16	trans-1,2-Dichloroethene	96	2.559	2.564	(0.544)	8172	1.00000	1.08	
17	Methyl Acetate	43	2.582	2.582	(0.549)	4326	1.00000	1.09	
18	Methyl tert-butyl ether	73	2.668	2.665	(0.567)	13845	1.00000	0.914(a)	
19	Tertiary-butyl alcohol	59	2.769	2.769	(0.589)	1347	5.00000	4.36(a)	
20	Acetonitrile	41	2.885	2.878	(0.613)	6878	10.0000	11.1(a)	
21	Di-isopropyl ether	45	3.046	3.054	(0.648)	13429	1.00000	0.812(a)	
22	Chloroprene	53	3.128	3.129	(0.665)	7555	1.00000	0.841(a)	
23	1,1-Dichloroethane	63	3.147	3.147	(0.669)	12965	1.00000	1.04	
24	Acrylonitrile	52	3.199	3.196	(0.680)	7962	5.00000	4.86(a)	

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1994.D
Report Date: 09-Oct-2023 12:50

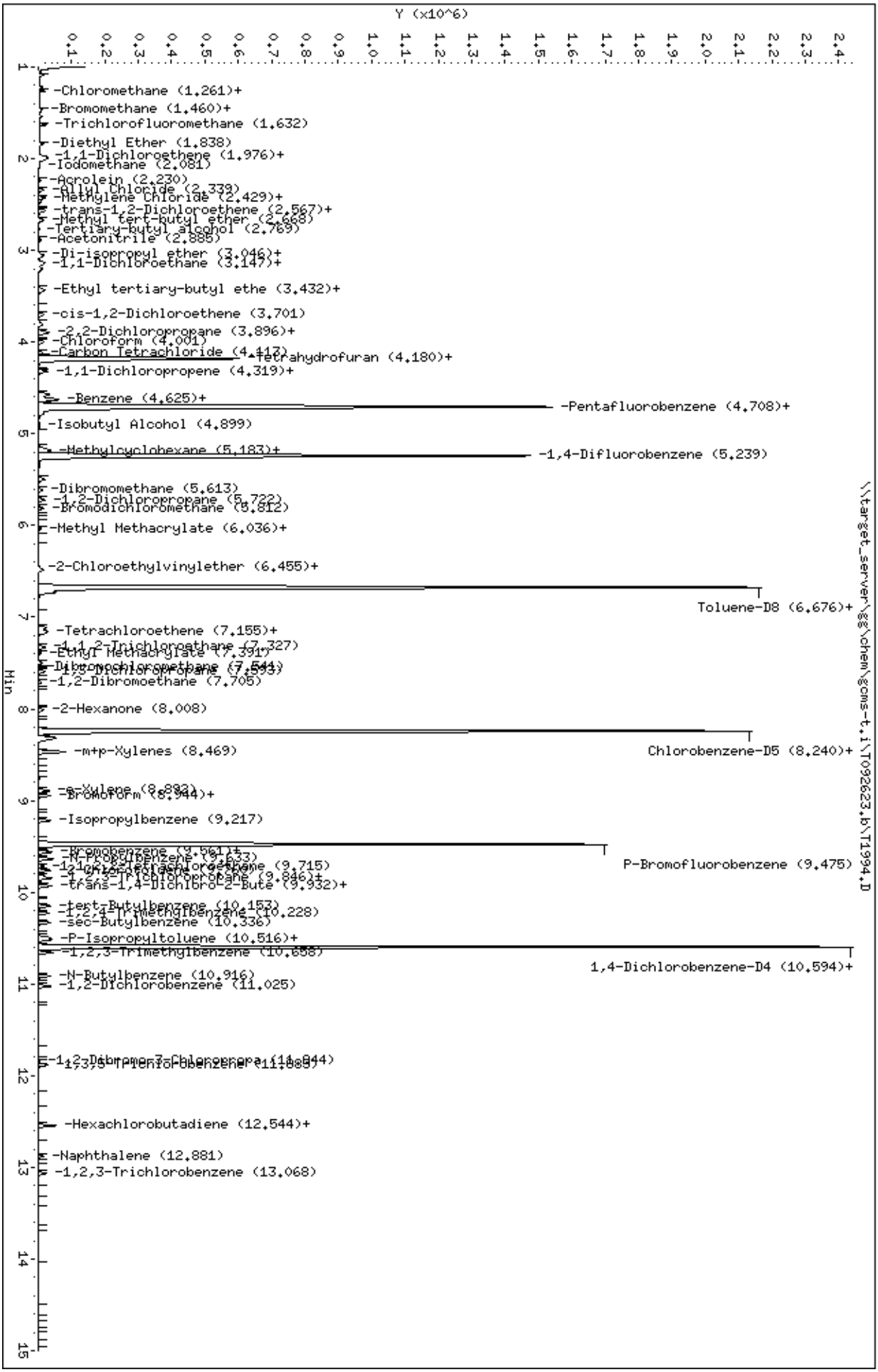
							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 Ethyl tertiary-butyl ether	59	3.431	3.432	(0.730)	11787	1.00000	0.795(a)	
	26 Vinyl Acetate	43	3.431	3.435	(0.655)	9674	1.00000	0.834(a)	
	27 cis-1,2-Dichloroethene	96	3.697	3.705	(0.786)	8408	1.00000	1.04	
	28 2,2-Dichloropropane	77	3.802	3.806	(0.808)	8263	1.00000	0.974(a)	
	29 Cyclohexane	56	3.899	3.896	(0.829)	8907	1.00000	0.899(a)	
	30 Bromochloromethane	128	3.906	3.900	(0.831)	4159	1.00000	1.11	
	31 Chloroform	83	4.000	3.997	(0.850)	14073	1.00000	1.08	
	32 Carbon Tetrachloride	117	4.120	4.117	(0.786)	9375	1.00000	0.986(a)	
	33 Tetrahydrofuran	42	4.153	4.143	(0.883)	5488	5.00000	4.08(a)	
$	34 Dibromofluoromethane	113	4.180	4.179	(0.889)	377929	50.0000	50.4	
	35 1,1,1-Trichloroethane	97	4.183	4.187	(0.889)	11260	1.00000	1.02	
	36 1,1-Dichloropropene	75	4.318	4.319	(0.824)	9838	1.00000	0.961(a)	
	37 2-Butanone	43	4.326	4.315	(0.920)	10401	5.00000	4.83(a)	
	38 Benzene	78	4.569	4.573	(0.872)	33694	1.00000	1.06	
	39 Propionitrile	54	4.606	4.603	(0.979)	7272	10.0000	9.59(a)	
	40 Methacrylonitrile	41	4.629	4.626	(0.984)	28930	10.0000	9.21(a)	
*	41 Pentafluorobenzene	168	4.704	4.704	(1.000)	741337	50.0000		
$	42 1,2-Dichloroethane-D4	65	4.711	4.712	(1.002)	419864	50.0000	51.9	
	43 Tertiary-amyl methyl ether	73	4.734	4.734	(1.006)	13010	1.00000	0.945(a)	
	44 1,2-Dichloroethane	62	4.782	4.783	(0.913)	11524	1.00000	1.24	
	45 Isobutyl Alcohol	43	4.898	4.891	(1.041)	1812	20.0000	11.7(a)	
	46 Methylcyclohexane	83	5.171	5.172	(1.099)	10908	1.00000	0.874(a)	
	47 Trichloroethene	95	5.186	5.187	(0.990)	8325	1.00000	1.02	
*	48 1,4-Difluorobenzene	114	5.239	5.243	(1.000)	1301637	50.0000		
	49 Dibromomethane	93	5.617	5.610	(1.072)	4992	1.00000	1.06	
	50 1,2-Dichloropropane	63	5.718	5.722	(1.091)	7284	1.00000	0.970(Ta)	
	51 Bromodichloromethane	83	5.811	5.812	(1.109)	9373	1.00000	0.990(a)	
	52 Methyl Methacrylate	41	6.025	6.025	(1.150)	2997	1.00000	0.757(a)	
	53 1,4-Dioxane	88	6.040	6.029	(1.153)	1594	20.0000	22.8	
	54 2-Chloroethylvinylether	63	6.455	6.455	(1.232)	1290	1.00000	0.652(a)	
	55 cis-1,3-dichloropropene	75	6.477	6.485	(1.236)	9292	1.00000	0.832(a)	
$	56 Toluene-D8	98	6.676	6.676	(1.274)	1515916	50.0000	50.3	
	57 Toluene	92	6.728	6.729	(1.284)	20994	1.00000	1.05	
	58 Tetrachloroethene	164	7.114	7.114	(0.863)	5977	1.00000	0.984(a)	
	59 4-methyl-2-pentanone	43	7.151	7.148	(1.365)	17796	5.00000	3.95(a)	
	60 trans-1,3-Dichloropropene	75	7.177	7.174	(1.370)	8622	1.00000	0.906(a)	
	61 1,1,2-Trichloroethane	83	7.327	7.331	(1.399)	6035	1.00000	1.03	
	62 Ethyl Methacrylate	69	7.390	7.387	(1.411)	4263	1.00000	0.482(a)	
	63 Dibromochloromethane	129	7.499	7.500	(0.910)	6589	1.00000	0.926(a)	
	64 1,3-Dichloropropane	76	7.593	7.593	(0.921)	12139	1.00000	1.02	
	65 1,2-Dibromoethane	107	7.705	7.705	(1.471)	6749	1.00000	0.991(Ta)	
	66 2-Hexanone	43	8.012	8.007	(0.972)	10304	5.00000	3.61(a)	
*	67 Chlorobenzene-D5	117	8.240	8.244	(1.000)	1198529	50.0000		
	68 Chlorobenzene	112	8.259	8.259	(1.002)	23675	1.00000	1.12	
	69 Ethylbenzene	91	8.315	8.314	(1.009)	34643	1.00000	0.976(a)	
	70 1,1,1,2-Tetrachloroethane	131	8.334	8.337	(1.011)	6978	1.00000	0.980(a)	
	71 m+p-Xylenes	91	8.468	8.468	(1.028)	46346	2.00000	1.71(a)	
	72 o-Xylene	91	8.891	8.892	(1.079)	20084	1.00000	0.778(a)	
	73 Bromoform	173	8.944	8.944	(1.085)	3374	1.00000	0.866(a)	
	74 Styrene	104	8.947	8.948	(1.086)	14521	1.00000	0.686(a)	
	75 Isopropylbenzene	105	9.217	9.217	(0.870)	23605	1.00000	0.757(a)	
$	76 P-Bromofluorobenzene	95	9.475	9.475	(1.809)	536228	50.0000	48.2	
	77 Bromobenzene	156	9.557	9.562	(0.902)	8795	1.00000	1.06	
	78 cis-1,4-Dichloro-2-Butene	53	9.561	9.565	(0.903)	1634	1.00000	0.880(a)	

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1994.D
Report Date: 09-Oct-2023 12:50

							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	79 N-Propylbenzene	91	9.636	9.636	(0.910)	34895	1.00000	0.909(a)	
	80 1,1,2,2-Tetrachloroethane	83	9.714	9.711	(0.917)	8986	1.00000	1.10	
	81 2-Chlorotoluene	91	9.759	9.764	(0.921)	20945	1.00000	0.932(a)	
	82 1,2,3-Trichloropropane	75	9.819	9.820	(0.927)	6987	1.00000	1.07	
	83 1,3,5-Trimethylbenzene	105	9.845	9.846	(0.929)	20359	1.00000	0.765(a)	
	84 trans-1,4-Dichloro-2-Butene	53	9.890	9.883	(0.934)	1411	1.00000	0.790(a)	
	85 4-Chlorotoluene	91	9.931	9.932	(0.937)	20641	1.00000	0.875(a)	
	86 tert-Butylbenzene	119	10.156	10.153	(0.959)	17000	1.00000	0.782(a)	
	87 1,2,4-Trimethylbenzene	105	10.227	10.228	(0.965)	18733	1.00000	0.711(a)	
	88 sec-Butylbenzene	105	10.336	10.332	(0.976)	25844	1.00000	0.814(a)	
	89 P-Isopropyltoluene	119	10.493	10.490	(0.990)	18582	1.00000	0.705(a)	
	90 1,3-Dichlorobenzene	146	10.515	10.516	(0.993)	15502	1.00000	0.983(a)	
*	91 1,4-Dichlorobenzene-D4	152	10.594	10.594	(1.000)	618503	50.0000		
	92 1,4-Dichlorobenzene	146	10.609	10.609	(1.001)	18343	1.00000	1.11	
	93 1,2,3-Trimethylbenzene	105	10.657	10.658	(1.006)	23671	1.00000	0.872(a)	
	94 N-Butylbenzene	91	10.916	10.912	(1.030)	19051	1.00000	0.785(a)	
	95 1,2-Dichlorobenzene	146	11.024	11.025	(1.041)	14773	1.00000	1.01	
	96 1,2-Dibromo-3-Chloropropane	157	11.840	11.848	(1.118)	1130	1.00000	0.964(a)	
	97 1,3,5-Trichlorobenzene	180	11.881	11.885	(1.122)	9262	1.00000	0.979(a)	
	98 Hexachlorobutadiene	225	12.544	12.544	(1.184)	4711	1.00000	1.31	
	99 1,2,4-Trichlorobenzene	180	12.544	12.548	(1.184)	7452	1.00000	0.894(a)	
	100 Naphthalene	128	12.877	12.877	(1.215)	10910	1.00000	0.527(a)	
	101 1,2,3-Trichlorobenzene	180	13.067	13.068	(1.233)	6755	1.00000	0.875(a)	
M	103 1,2-Dichloroethylene (total)	96				16580	1.00000	(a)	
M	104 Total Alkylbenzenes	100				154464	1.00000	(a)	
M	105 Xylenes (total)	91				66430	5.00000	(a)	

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1994.D
Date : 26-SEP-2023 11:34
Client ID: Initial Calibration
Sample Info: WG343083-1
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-t.i
Operator: CR
Column diameter: 0.18
\\target_server\gg\chem\gcms-t.i\T092623.b\T1994.D
Y (x10^6)
Min
-Chloromethane (1.261)+
-Bromomethane (1.460)+
-Trichlorofluoromethane (1.632)
-Diethyl Ether (1.838)
-1,1-Dichloroethene (1.976)+
-Iodomethane (2.081)
-Acrolein (2.230)
-Allyl Chloride (2.339)
-Methylene Chloride (2.429)+
-trans-1,2-Dichloroethene (2.567)+
-Methyl tert-butyl ether (2.668)
-Tertiary-butyl alcohol (2.769)
-Acetonitrile (2.885)
-Di-isopropyl ether (3.046)+
-1,1-Dichloroethane (3.147)+
-Ethyl tertiary-butyl ethe (3.432)+
-cis-1,2-Dichloroethene (3.701)
-2,2-Dichloropropane (3.896)+
-Chloroform (4.001)
-Carbon Tetrachloride (4.117)
-Tetrahydrofuran (4.180)+
-1,1-Dichloropropene (4.319)+
-Benzene (4.625)+
-Pentafluorobenzene (4.708)+
-Isobutyl Alcohol (4.899)
-Methylcyclohexane (5.183)+
-1,4-Difluorobenzene (5.239)
-Dibromomethane (5.613)
-1,2-Dichloropropane (5.722)
-Bromodichloromethane (5.812)
-Methyl Methacrylate (6.036)+
-2-Chloroethylvinylether (6.455)+
Toluene-D8 (6.676)+
-Tetrachloroethene (7.155)+
-1,1,2-Trichloroethane (7.327)
-Ethyl Methacrylate (7.391)
-Dibromochloromethane (7.541)
-1,3-Dichloropropane (7.593)
-1,2-Dibromoethane (7.705)
-2-Hexanone (8.008)
-m+p-Xylenes (8.469)
Chlorobenzene-D5 (8.240)+
-o-Xylene (8.892)
-Bromoform (8.944)+
-Isopropylbenzene (9.217)
-Bromobenzene (9.561)+
-N-Propylbenzene (9.653)
-1,1,2,2-Tetrachloroethane (9.715)
P-Bromofluorobenzene (9.475)
-trans-1,4-Dichloro-2-Bute (9.932)+
-tert-Butylbenzene (10.153)
-1,2,4-Trimethylbenzene (10.228)
-sec-Butylbenzene (10.336)
-P-Isopropyltoluene (10.516)+
-1,2,3-Trimethylbenzene (10.658)
1,4-Dichlorobenzene-D4 (10.594)+
-N-Butylbenzene (10.916)
-1,2-Dichlorobenzene (11.025)
-1,2,3-Trichlorobenzene (11.885)
-Hexachlorobutadiene (12.544)+
-Naphthalene (12.881)
-1,2,3-Trichlorobenzene (13.068)

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1995.D
Report Date: 09-Oct-2023 12:50

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T092623.b\T1995.D
Lab Smp Id: WG343083-6 Client Smp ID: Initial Calibration
Inj Date : 26-SEP-2023 12:00
Operator : CR Inst ID: gcms-t.i
Smp Info : WG343083-6
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T092623.b\T826(33)23.m
Meth Date : 27-Sep-2023 10:37 croy Quant Type: ISTD
Cal Date : 26-SEP-2023 12:00 Cal File: T1995.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.089	1.089	(0.232)	1121861	150.000	138	
2	Chloromethane	50	1.212	1.213	(0.258)	1030374	150.000	131	
3	Vinyl chloride	62	1.257	1.257	(0.267)	1053487	150.000	139	
4	Bromomethane	94	1.455	1.456	(0.309)	383660	150.000	144	
5	Chloroethane	64	1.530	1.531	(0.325)	300932	150.000	85.8	
6	Trichlorofluoromethane	101	1.624	1.628	(0.345)	1572738	150.000	136	
7	Diethyl Ether	59	1.837	1.841	(0.391)	613591	150.000	132	
8	1,1-Dichloroethene	96	1.972	1.976	(0.419)	1089957	150.000	146	
9	Carbon Disulfide	76	1.994	1.995	(0.424)	2457448	150.000	144	
10	Freon-113	151	2.006	2.009	(0.426)	854059	150.000	144	
11	Iodomethane	142	2.077	2.077	(0.442)	981148	150.000	(a)	
12	Acrolein	56	2.226	2.227	(0.473)	581260	750.000	732	
13	Allyl Chloride	41	2.335	2.339	(0.496)	1322351	150.000	152(A)	
14	Methylene Chloride	84	2.425	2.425	(0.516)	1252470	150.000	136	
15	Acetone	43	2.466	2.466	(0.524)	1209231	750.000	1010(A)	
16	trans-1,2-Dichloroethene	96	2.559	2.564	(0.544)	1240756	150.000	145	
17	Methyl Acetate	43	2.578	2.582	(0.548)	657956	150.000	146	
18	Methyl tert-butyl ether	73	2.668	2.665	(0.567)	2795424	150.000	169(A)	
19	Tertiary-butyl alcohol	59	2.776	2.769	(0.590)	257957	750.000	770(A)	
20	Acetonitrile	41	2.877	2.878	(0.612)	958089	1500.00	1360	
21	Di-isopropyl ether	45	3.050	3.054	(0.648)	2880039	150.000	162(A)	
22	Chloroprene	53	3.124	3.129	(0.664)	1573832	150.000	163(A)	
23	1,1-Dichloroethane	63	3.147	3.147	(0.669)	2000160	150.000	143	
24	Acrylonitrile	52	3.199	3.196	(0.680)	1340577	750.000	739	

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1995.D
Report Date: 09-Oct-2023 12:50

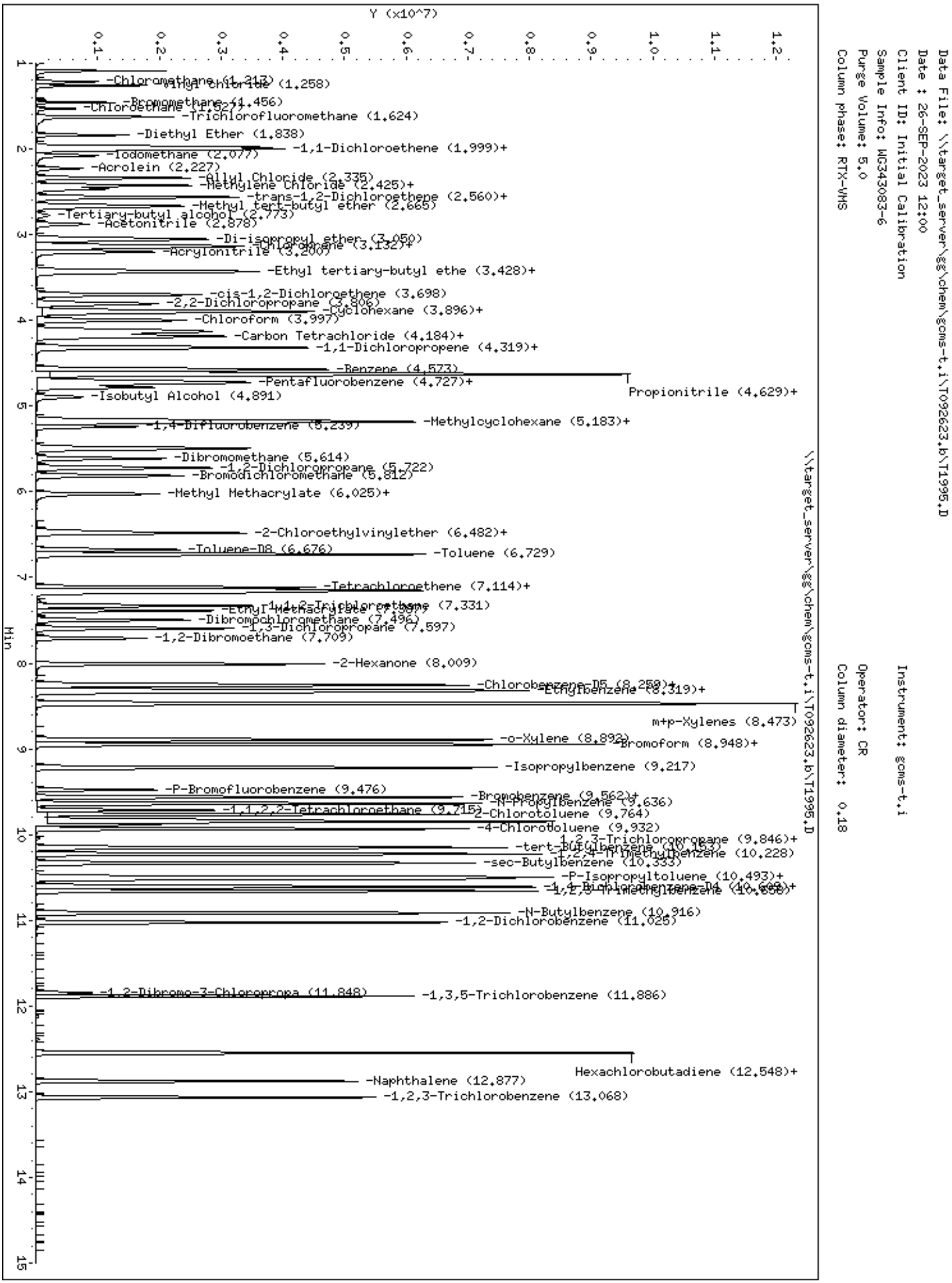
			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25	Ethyl tertiary-butyl ether	59	3.428	3.432	(0.729)	2768388	150.000	175(A)	
	26	Vinyl Acetate	43	3.431	3.435	(0.655)	1809568	150.000	148	
	27	cis-1,2-Dichloroethene	96	3.701	3.705	(0.787)	1373770	150.000	151(A)	
	28	2,2-Dichloropropane	77	3.806	3.806	(0.809)	1496381	150.000	159(A)	
	29	Cyclohexane	56	3.895	3.896	(0.828)	1711228	150.000	158(A)	
	30	Bromochloromethane	128	3.899	3.900	(0.829)	586486	150.000	138	
	31	Chloroform	83	3.996	3.997	(0.850)	2155638	150.000	146	
	32	Carbon Tetrachloride	117	4.112	4.117	(0.785)	1653123	150.000	160(A)	
	33	Tetrahydrofuran	42	4.139	4.143	(0.880)	1170917	750.000	812(A)	
$	34	Dibromofluoromethane	113	4.180	4.179	(0.889)	423808	50.0000	50.7	
	35	1,1,1-Trichloroethane	97	4.184	4.187	(0.889)	1903978	150.000	154(A)	
	36	1,1-Dichloropropene	75	4.318	4.319	(0.824)	1696138	150.000	154(A)	
	37	2-Butanone	43	4.311	4.315	(0.916)	1793948	750.000	753(A)	
	38	Benzene	78	4.573	4.573	(0.873)	4756801	150.000	136	
	39	Propionitrile	54	4.606	4.603	(0.979)	1133272	1500.00	1350	
	40	Methacrylonitrile	41	4.629	4.626	(0.984)	4483630	1500.00	1300	
*	41	Pentafluorobenzene	168	4.704	4.704	(1.000)	825328	50.0000		
$	42	1,2-Dichloroethane-D4	65	4.715	4.712	(1.002)	458497	50.0000	50.5	
	43	Tertiary-amyl methyl ether	73	4.730	4.734	(1.006)	2642553	150.000	174(A)	
	44	1,2-Dichloroethane	62	4.782	4.783	(0.913)	1525298	150.000	144	
	45	Isobutyl Alcohol	43	4.891	4.891	(1.040)	540656	3000.00	3130(A)	
	46	Methylcyclohexane	83	5.168	5.172	(1.099)	2213945	150.000	163(A)	
	47	Trichloroethene	95	5.186	5.187	(0.990)	1368728	150.000	154(A)	
*	48	1,4-Difluorobenzene	114	5.239	5.243	(1.000)	1414832	50.0000		
	49	Dibromomethane	93	5.613	5.610	(1.071)	799568	150.000	154(A)	
	50	1,2-Dichloropropane	63	5.722	5.722	(1.092)	1245059	150.000	153(A)	
	51	Bromodichloromethane	83	5.811	5.812	(1.109)	1678791	150.000	163(A)	
	52	Methyl Methacrylate	41	6.025	6.025	(1.150)	781321	150.000	191(A)	
	53	1,4-Dioxane	88	6.028	6.029	(1.151)	178750	3000.00	2290	
	54	2-Chloroethylvinylether	63	6.451	6.455	(1.231)	342226	150.000	171(A)	
	55	cis-1,3-dichloropropene	75	6.481	6.485	(1.237)	2018057	150.000	172(A)	
$	56	Toluene-D8	98	6.676	6.676	(1.274)	1642200	50.0000	50.0	
	57	Toluene	92	6.728	6.729	(1.284)	3148195	150.000	143	
	58	Tetrachloroethene	164	7.114	7.114	(0.863)	1066434	150.000	157(A)	
	59	4-methyl-2-pentanone	43	7.151	7.148	(1.365)	3648003	750.000	778(A)	
	60	trans-1,3-Dichloropropene	75	7.177	7.174	(1.370)	1726469	150.000	170(A)	
	61	1,1,2-Trichloroethane	83	7.331	7.331	(1.399)	985664	150.000	154(A)	
	62	Ethyl Methacrylate	69	7.387	7.387	(1.410)	1554731	150.000	162(A)	
	63	Dibromochloromethane	129	7.495	7.500	(0.909)	1345802	150.000	172(A)	
	64	1,3-Dichloropropane	76	7.596	7.593	(0.921)	2011011	150.000	150(A)	
	65	1,2-Dibromoethane	107	7.709	7.705	(1.471)	1202999	150.000	163(A)	
	66	2-Hexanone	43	8.008	8.007	(0.971)	2571109	750.000	852(A)	
*	67	Chlorobenzene-D5	117	8.244	8.244	(1.000)	1342316	50.0000		
	68	Chlorobenzene	112	8.259	8.259	(1.002)	3288096	150.000	136	
	69	Ethylbenzene	91	8.315	8.314	(1.009)	5117066	150.000	129	
	70	1,1,1,2-Tetrachloroethane	131	8.337	8.337	(1.011)	1293999	150.000	163(A)	
	71	m+p-Xylenes	91	8.472	8.468	(1.028)	6613176	300.000	224	
	72	o-Xylene	91	8.891	8.892	(1.079)	4244805	150.000	154(A)	
	73	Bromoform	173	8.944	8.944	(1.085)	810477	150.000	191(A)	
	74	Styrene	104	8.947	8.948	(1.085)	3630516	150.000	163(A)	
	75	Isopropylbenzene	105	9.221	9.217	(0.870)	4962672	150.000	141	
$	76	P-Bromofluorobenzene	95	9.475	9.475	(1.809)	619124	50.0000	51.6	
	77	Bromobenzene	156	9.561	9.562	(0.903)	1513262	150.000	151(A)	
	78	cis-1,4-Dichloro-2-Butene	53	9.565	9.565	(0.903)	350147	150.000	162(A)	

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1995.D
Report Date: 09-Oct-2023 12:50

							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	79 N-Propylbenzene	91	9.636	9.636	(0.910)	5507760	150.000	123	
	80 1,1,2,2-Tetrachloroethane	83	9.711	9.711	(0.917)	1404646	150.000	142	
	81 2-Chlorotoluene	91	9.763	9.764	(0.922)	3744591	150.000	142	
	82 1,2,3-Trichloropropane	75	9.819	9.820	(0.927)	1131821	150.000	144	
	83 1,3,5-Trimethylbenzene	105	9.846	9.846	(0.929)	4369782	150.000	145	
	84 trans-1,4-Dichloro-2-Butene	53	9.883	9.883	(0.933)	343997	150.000	169(A)	
	85 4-Chlorotoluene	91	9.932	9.932	(0.937)	3881074	150.000	142	
	86 tert-Butylbenzene	119	10.152	10.153	(0.958)	3787058	150.000	153(A)	
	87 1,2,4-Trimethylbenzene	105	10.227	10.228	(0.965)	4329610	150.000	147	
	88 sec-Butylbenzene	105	10.336	10.332	(0.976)	4964251	150.000	137	
	89 P-Isopropyltoluene	119	10.493	10.490	(0.990)	4403960	150.000	149	
	90 1,3-Dichlorobenzene	146	10.515	10.516	(0.993)	2756060	150.000	147	
*	91 1,4-Dichlorobenzene-D4	152	10.594	10.594	(1.000)	735313	50.0000		
	92 1,4-Dichlorobenzene	146	10.609	10.609	(1.001)	2838725	150.000	142	
	93 1,2,3-Trimethylbenzene	105	10.658	10.658	(1.006)	4368218	150.000	139	
	94 N-Butylbenzene	91	10.916	10.912	(1.030)	4133676	150.000	150	
	95 1,2-Dichlorobenzene	146	11.024	11.025	(1.041)	2649233	150.000	152(A)	
	96 1,2-Dibromo-3-Chloropropane	157	11.848	11.848	(1.118)	255008	150.000	184(A)	
	97 1,3,5-Trichlorobenzene	180	11.885	11.885	(1.122)	1907618	150.000	170(A)	
	98 Hexachlorobutadiene	225	12.544	12.544	(1.184)	673091	150.000	148	
	99 1,2,4-Trichlorobenzene	180	12.547	12.548	(1.184)	1850087	150.000	191(A)	
	100 Naphthalene	128	12.877	12.877	(1.215)	3722138	150.000	151(A)	
	101 1,2,3-Trichlorobenzene	180	13.068	13.068	(1.233)	1588923	150.000	178(A)	
M	103 1,2-Dichloroethylene (total)	96				2614526	150.000	(a)	
M	104 Total Alkylbenzenes	100				31496097	150.000	(a)	
M	105 Xylenes (total)	91				10857981	150.000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.


Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1995.D
Date : 26-SEP-2023 12:00
Client ID: Initial Calibration
Sample Info: WG343083-6
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-t.i
Operator: CR
Column diameter: 0.18
Y (x10^7)
Min
-Chloromethane (1.212)
-Vinyl Chloride (1.258)
-Bromomethane (1.456)
-Chloroethane (1.527)
-Trichlorofluoromethane (1.624)
-Diethyl Ether (1.838)
-1,1-Dichloroethene (1.999)+
-Iodomethane (2.077)
-Acrolein (2.227)
-Allyl Chloride (2.335)
-Methylene Chloride (2.425)+
-trans-1,2-Dichloroethene (2.560)+
-Methyl tert-butyl ether (2.665)
-Tertiary-butyl alcohol (2.773)
-Acetonitrile (2.878)
-Di-isopropyl ether (3.050)
-Chloroprene (3.132)+
-Acrylonitrile (3.200)
-Ethyl tertiary-butyl ethe (3.428)+
-cis-1,2-Dichloroethene (3.698)
-2,2-Dichloropropane (3.806)
-Cyclohexane (3.896)+
-Chloroform (3.997)
-Carbon Tetrachloride (4.184)+
-1,1-Dichloropropene (4.319)+
-Benzene (4.573)
-Pentafluorobenzene (4.727)+
Propionitrile (4.629)+
-Isobutyl Alcohol (4.891)
-1,4-Difluorobenzene (5.239)
-Methylcyclohexane (5.183)+
-Dibromomethane (5.614)
-1,2-Dichloropropane (5.722)
-Bromodichloromethane (5.812)
-Methyl Methacrylate (6.025)+
-2-Chloroethylvinylether (6.482)+
-Toluene-D8 (6.676)
-Toluene (6.729)
-Tetrachloroethene (7.114)+
-Ethyl Methacrylate (7.307)
-1,1,2-Trichloroethane (7.331)
-Dibromochloromethane (7.496)
-1,3-Dichloropropane (7.597)
-1,2-Dibromoethane (7.709)
-2-Hexanone (8.009)
-Chlorobenzene-D5 (8.259)+
-Ethylbenzene (8.319)+
m+p-Xylenes (8.473)
-o-Xylene (8.892)
-Bromoform (8.948)+
-Isopropylbenzene (9.217)
-P-Bromofluorobenzene (9.476)
-Bromobenzene (9.562)+
-N-Propylbenzene (9.636)
-1,1,2,2-Tetrachloroethane (9.715)
2-Chlorotoluene (9.764)
-4-Chlorotoluene (9.932)
1,2,3-Trichloropropane (9.846)+
-tert-Butylbenzene (10.163)
1,2,4-Trimethylbenzene (10.228)
-sec-Butylbenzene (10.333)
-P-Isopropyltoluene (10.493)+
-1,4-Dichlorobenzene-D4 (10.608)+
1,2,3-Trimethylbenzene (10.658)
-N-Butylbenzene (10.916)
-1,2-Dichlorobenzene (11.025)
-1,2-Dibromo-3-Chloropropa (11.848)
-1,3,5-Trichlorobenzene (11.886)
Hexachlorobutadiene (12.548)+
-Naphthalene (12.877)
-1,2,3-Trichlorobenzene (13.068)
\\target_server\gg\chem\gcms-t.i\T092623.b\T1995.D

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1996.D
Report Date: 09-Oct-2023 12:50

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T092623.b\T1996.D
Lab Smp Id: WG343083-5 Client Smp ID: Initial Calibration
Inj Date : 26-SEP-2023 12:26
Operator : CR Inst ID: gcms-t.i
Smp Info : WG343083-5
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T092623.b\T826(33)23.m
Meth Date : 27-Sep-2023 10:37 croy Quant Type: ISTD
Cal Date : 26-SEP-2023 12:26 Cal File: T1996.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.089	1.089	(0.232)	780553	100.000	91.2	
2	Chloromethane	50	1.212	1.213	(0.258)	736653	100.000	89.6	
3	Vinyl chloride	62	1.257	1.257	(0.267)	745852	100.000	93.4	
4	Bromomethane	94	1.455	1.456	(0.309)	265319	100.000	94.2	
5	Chloroethane	64	1.527	1.531	(0.325)	272342	100.000	72.7	
6	Trichlorofluoromethane	101	1.624	1.628	(0.345)	1061729	100.000	87.3	
7	Diethyl Ether	59	1.837	1.841	(0.391)	436002	100.000	89.5	
8	1,1-Dichloroethene	96	1.972	1.976	(0.419)	762186	100.000	96.4	
9	Carbon Disulfide	76	1.994	1.995	(0.424)	1716609	100.000	94.7	
10	Freon-113	151	2.006	2.009	(0.426)	597754	100.000	95.4	
11	Iodomethane	142	2.077	2.077	(0.442)	638891	100.000	104	
12	Acrolein	56	2.226	2.227	(0.473)	429338	500.000	509	
13	Allyl Chloride	41	2.335	2.339	(0.496)	933585	100.000	100	
14	Methylene Chloride	84	2.425	2.425	(0.516)	867885	100.000	89.7	
15	Acetone	43	2.466	2.466	(0.524)	720390	500.000	449	
16	trans-1,2-Dichloroethene	96	2.559	2.564	(0.544)	865225	100.000	95.0	
17	Methyl Acetate	43	2.578	2.582	(0.548)	469566	100.000	98.0	
18	Methyl tert-butyl ether	73	2.668	2.665	(0.567)	1966530	100.000	109	
19	Tertiary-butyl alcohol	59	2.773	2.769	(0.590)	198900	500.000	554	
20	Acetonitrile	41	2.877	2.878	(0.612)	699151	1000.00	946	
21	Di-isopropyl ether	45	3.050	3.054	(0.648)	2032395	100.000	106	
22	Chloroprene	53	3.124	3.129	(0.664)	1083412	100.000	103	
23	1,1-Dichloroethane	63	3.147	3.147	(0.669)	1393885	100.000	94.2	
24	Acrylonitrile	52	3.196	3.196	(0.679)	956923	500.000	496	

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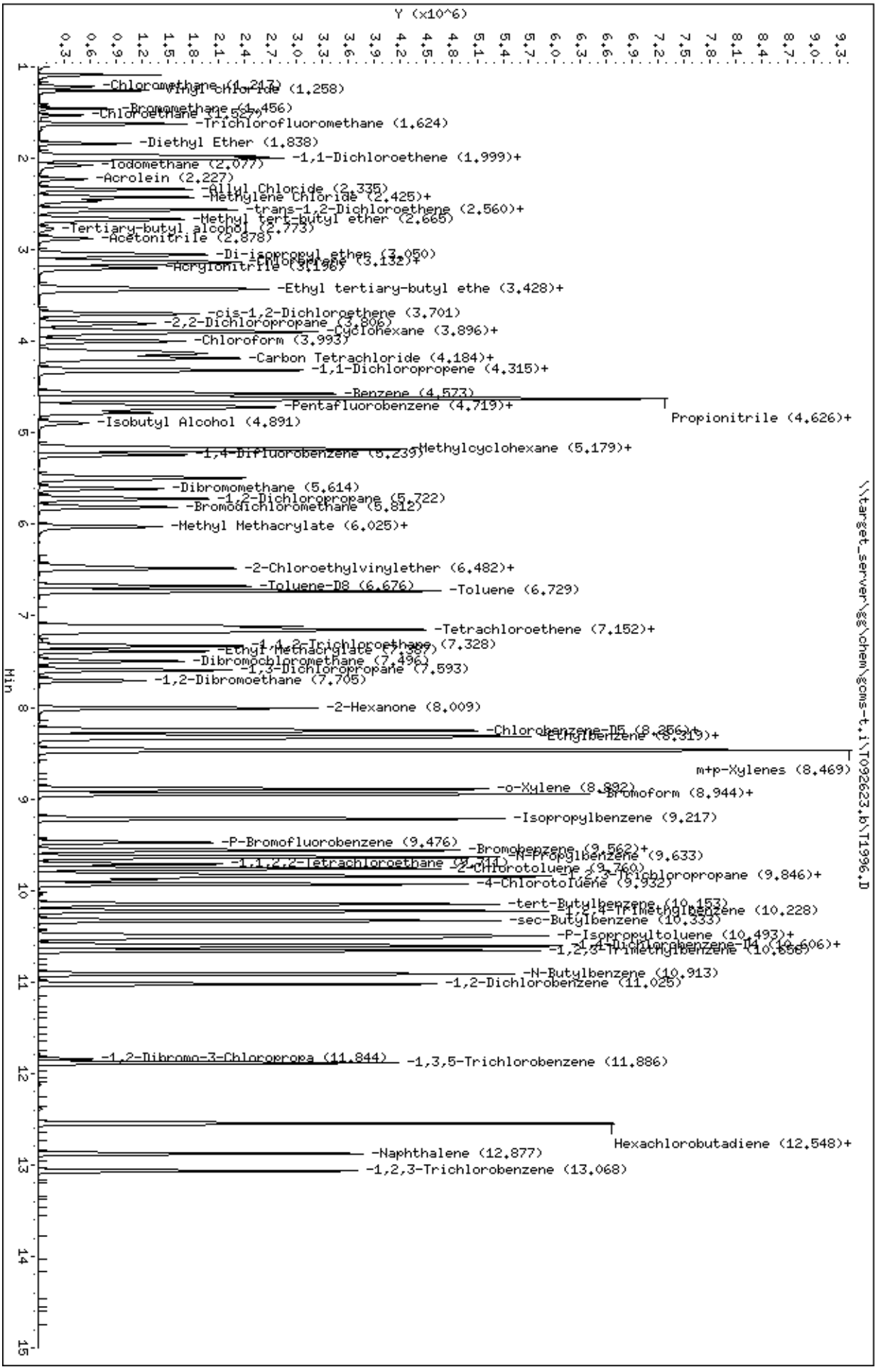
							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 Ethyl tertiary-butyl ether	59	3.428	3.432	(0.729)	1940286	100.000	112	
	26 Vinyl Acetate	43	3.431	3.435	(0.655)	1464519	100.000	112	
	27 cis-1,2-Dichloroethene	96	3.701	3.705	(0.787)	955057	100.000	98.3	
	28 2,2-Dichloropropane	77	3.806	3.806	(0.809)	1026317	100.000	101	
	29 Cyclohexane	56	3.892	3.896	(0.827)	1196469	100.000	103	
	30 Bromochloromethane	128	3.899	3.900	(0.829)	409716	100.000	91.5	
	31 Chloroform	83	3.996	3.997	(0.850)	1489490	100.000	94.9	
	32 Carbon Tetrachloride	117	4.112	4.117	(0.785)	1132318	100.000	101	
	33 Tetrahydrofuran	42	4.139	4.143	(0.880)	835206	500.000	535	
$	34 Dibromofluoromethane	113	4.180	4.179	(0.889)	447906	50.0000	50.1	
	35 1,1,1-Trichloroethane	97	4.187	4.187	(0.890)	1315686	100.000	99.3	
	36 1,1-Dichloropropene	75	4.318	4.319	(0.824)	1184480	100.000	99.5	
	37 2-Butanone	43	4.311	4.315	(0.916)	1239205	500.000	487	
	38 Benzene	78	4.573	4.573	(0.873)	3434826	100.000	93.1	
	39 Propionitrile	54	4.603	4.603	(0.979)	838110	1000.00	953	
	40 Methacrylonitrile	41	4.625	4.626	(0.983)	3379083	1000.00	941	
*	41 Pentafluorobenzene	168	4.704	4.704	(1.000)	880907	50.0000		
$	42 1,2-Dichloroethane-D4	65	4.711	4.712	(1.002)	480200	50.0000	49.5	
	43 Tertiary-amyl methyl ether	73	4.730	4.734	(1.006)	1836143	100.000	110	
	44 1,2-Dichloroethane	62	4.782	4.783	(0.913)	1049402	100.000	93.0	
	45 Isobutyl Alcohol	43	4.891	4.891	(1.040)	400529	2000.00	2090	
	46 Methylcyclohexane	83	5.168	5.172	(1.099)	1525568	100.000	104	
	47 Trichloroethene	95	5.186	5.187	(0.990)	933907	100.000	97.5	
*	48 1,4-Difluorobenzene	114	5.239	5.243	(1.000)	1519143	50.0000		
	49 Dibromomethane	93	5.613	5.610	(1.071)	550718	100.000	98.5	
	50 1,2-Dichloropropane	63	5.722	5.722	(1.092)	857428	100.000	98.1	
	51 Bromodichloromethane	83	5.811	5.812	(1.109)	1139606	100.000	102	
	52 Methyl Methacrylate	41	6.021	6.025	(1.149)	542975	100.000	118	
	53 1,4-Dioxane	88	6.028	6.029	(1.151)	165252	2000.00	1970	
	54 2-Chloroethylvinylether	63	6.455	6.455	(1.232)	248750	100.000	113	
	55 cis-1,3-dichloropropene	75	6.481	6.485	(1.237)	1386950	100.000	108	
$	56 Toluene-D8	98	6.676	6.676	(1.274)	1742325	50.0000	49.4	
	57 Toluene	92	6.728	6.729	(1.284)	2211097	100.000	94.3	
	58 Tetrachloroethene	164	7.114	7.114	(0.863)	727300	100.000	101	
	59 4-methyl-2-pentanone	43	7.147	7.148	(1.364)	2664889	500.000	526	
	60 trans-1,3-Dichloropropene	75	7.174	7.174	(1.369)	1177361	100.000	106	
	61 1,1,2-Trichloroethane	83	7.331	7.331	(1.399)	684742	100.000	99.1	
	62 Ethyl Methacrylate	69	7.387	7.387	(1.410)	1067956	100.000	96.7	
	63 Dibromochloromethane	129	7.499	7.500	(0.910)	910842	100.000	107	
	64 1,3-Dichloropropane	76	7.593	7.593	(0.921)	1392531	100.000	98.5	
	65 1,2-Dibromoethane	107	7.709	7.705	(1.471)	817999	100.000	102	
	66 2-Hexanone	43	8.008	8.007	(0.971)	1822462	500.000	560	
*	67 Chlorobenzene-D5	117	8.244	8.244	(1.000)	1415558	50.0000		
	68 Chlorobenzene	112	8.259	8.259	(1.002)	2335147	100.000	92.8	
	69 Ethylbenzene	91	8.315	8.314	(1.009)	3837012	100.000	94.1	
	70 1,1,1,2-Tetrachloroethane	131	8.337	8.337	(1.011)	860940	100.000	101	
	71 m+p-Xylenes	91	8.468	8.468	(1.027)	5297071	200.000	178	
	72 o-Xylene	91	8.891	8.892	(1.079)	3056927	100.000	104	
	73 Bromoform	173	8.944	8.944	(1.085)	541523	100.000	116	
	74 Styrene	104	8.947	8.948	(1.085)	2582252	100.000	109	
	75 Isopropylbenzene	105	9.217	9.217	(0.870)	3691718	100.000	101	
$	76 P-Bromofluorobenzene	95	9.475	9.475	(1.809)	660174	50.0000	50.9	
	77 Bromobenzene	156	9.561	9.562	(0.903)	1031066	100.000	98.3	
	78 cis-1,4-Dichloro-2-Butene	53	9.565	9.565	(0.903)	240570	100.000	105	

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1996.D
Report Date: 09-Oct-2023 12:50

							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	79 N-Propylbenzene	91	9.632	9.636	(0.909)	4223770	100.000	92.9	
	80 1,1,2,2-Tetrachloroethane	83	9.711	9.711	(0.917)	1010454	100.000	98.4	
	81 2-Chlorotoluene	91	9.759	9.764	(0.921)	2670423	100.000	97.7	
	82 1,2,3-Trichloropropane	75	9.819	9.820	(0.927)	789977	100.000	96.4	
	83 1,3,5-Trimethylbenzene	105	9.846	9.846	(0.929)	3206796	100.000	102	
	84 trans-1,4-Dichloro-2-Butene	53	9.883	9.883	(0.933)	237487	100.000	109	
	85 4-Chlorotoluene	91	9.932	9.932	(0.937)	2788799	100.000	98.3	
	86 tert-Butylbenzene	119	10.152	10.153	(0.958)	2721271	100.000	105	
	87 1,2,4-Trimethylbenzene	105	10.227	10.228	(0.965)	3171442	100.000	103	
	88 sec-Butylbenzene	105	10.332	10.332	(0.975)	3719247	100.000	99.3	
	89 P-Isopropyltoluene	119	10.493	10.490	(0.990)	3256921	100.000	106	
	90 1,3-Dichlorobenzene	146	10.515	10.516	(0.993)	1920620	100.000	98.5	
*	91 1,4-Dichlorobenzene-D4	152	10.594	10.594	(1.000)	769686	50.0000		
	92 1,4-Dichlorobenzene	146	10.609	10.609	(1.001)	1977622	100.000	95.1	
	93 1,2,3-Trimethylbenzene	105	10.658	10.658	(1.006)	3219859	100.000	99.0	
	94 N-Butylbenzene	91	10.912	10.912	(1.030)	2995827	100.000	104	
	95 1,2-Dichlorobenzene	146	11.024	11.025	(1.041)	1834866	100.000	100	
	96 1,2-Dibromo-3-Chloropropane	157	11.844	11.848	(1.118)	172005	100.000	114	
	97 1,3,5-Trichlorobenzene	180	11.885	11.885	(1.122)	1272663	100.000	106	
	98 Hexachlorobutadiene	225	12.544	12.544	(1.184)	467775	100.000	98.5	
	99 1,2,4-Trichlorobenzene	180	12.547	12.548	(1.184)	1239322	100.000	117	
	100 Naphthalene	128	12.877	12.877	(1.215)	2711591	100.000	104	
	101 1,2,3-Trichlorobenzene	180	13.068	13.068	(1.233)	1087336	100.000	113	
M	103 1,2-Dichloroethylene (total)	96				1820282	100.000		(a)
M	104 Total Alkylbenzenes	100				23295274	100.000		(a)
M	105 Xylenes (total)	91				8353998	100.000		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1996.D
Date : 26-SEP-2023 12:26
Client ID: Initial Calibration
Sample Info: WG343083-5
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-t.i
Operator: CR
Column diameter: 0.18
Y (x10^6)
Min
\\target_server\gg\chem\gcms-t.i\T092623.b\T1996.D
-Chloromethane (1.217)
-Vinyl chloride (1.258)
-Bromomethane (1.456)
-Chloroethane (1.527)
-Trichlorofluoromethane (1.624)
-Diethyl Ether (1.838)
-1,1-Dichloroethene (1.999)+
-Iodomethane (2.077)
-Acrolein (2.227)
-Allyl Chloride (2.335)
-Methylene Chloride (2.425)+
-trans-1,2-Dichloroethene (2.560)+
-Methyl tert-butyl ether (2.665)
-Tertiary-butyl alcohol (2.773)
-Acetonitrile (2.878)
-Di-isopropyl ether (3.050)
-Acrylonitrile (3.196)
-Ethyl tertiary-butyl ethe (3.428)+
-cis-1,2-Dichloroethene (3.701)
-2,2-Dichloropropane (3.806)
-Cyclohexane (3.896)+
-Chloroform (3.993)
-Carbon Tetrachloride (4.184)+
-1,1-Dichloropropene (4.315)+
-Benzene (4.573)
-Pentafluorobenzene (4.719)+
Propionitrile (4.626)+
-Isobutyl Alcohol (4.891)
-Methylcyclohexane (5.179)+
-1,4-Difluorobenzene (5.239)
-Dibromomethane (5.614)
-1,2-Dichloropropane (5.722)
-Bromodichloromethane (5.812)
-Methyl Methacrylate (6.025)+
-2-Chloroethylvinylether (6.482)+
-Toluene-D8 (6.676)
-Toluene (6.729)
-Tetrachloroethene (7.152)+
-1,1,2-Trichloroethane (7.328)
-Ethyl Methacrylate (7.387)
-Dibromochloromethane (7.496)
-1,3-Dichloropropane (7.593)
-1,2-Dibromoethane (7.705)
-2-Hexanone (8.009)
-Chlorobenzene-D5 (8.256)+
-Ethylbenzene (8.319)+
m+p-Xylenes (8.469)
-o-Xylene (8.892)
-Bromoform (8.944)+
-Isopropylbenzene (9.217)
-P-Bromofluorobenzene (9.476)
-Bromobenzene (9.562)+
-N-Propylbenzene (9.633)
-1,1,2,2-Tetrachloroethane (9.711)
-2-Chlorotoluene (9.760)
-1,2,3-Trichloropropane (9.846)+
-4-Chlorotoluene (9.932)
-tert-Butylbenzene (10.153)
-1,2,4-TriMethylbenzene (10.228)
-sec-Butylbenzene (10.333)
-P-Isopropyltoluene (10.493)+
-1,4-Dichlorobenzene-D4 (10.606)+
-1,2,3-Trimethylbenzene (10.656)
-N-Butylbenzene (10.913)
-1,2-Dichlorobenzene (11.025)
-1,2-Dibromo-3-Chloropropa (11.844)
-1,3,5-Trichlorobenzene (11.886)
Hexachlorobutadiene (12.548)+
-Naphthalene (12.877)
-1,2,3-Trichlorobenzene (13.068)

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1997.D
Report Date: 09-Oct-2023 12:50

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T092623.b\T1997.D
Lab Smp Id: WG343083-7 Client Smp ID: Initial Calibration
Inj Date : 26-SEP-2023 12:52
Operator : CR Inst ID: gcms-t.i
Smp Info : WG343083-7
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T092623.b\T826(33)23.m
Meth Date : 27-Sep-2023 10:37 croy Quant Type: ISTD
Cal Date : 26-SEP-2023 12:52 Cal File: T1997.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.092	1.089	(0.232)	599297	75.0000	72.7	
2	Chloromethane	50	1.212	1.213	(0.258)	568008	75.0000	71.9	
3	Vinyl chloride	62	1.261	1.257	(0.268)	550373	75.0000	71.4	
4	Bromomethane	94	1.459	1.456	(0.310)	208334	75.0000	76.5	
5	Chloroethane	64	1.530	1.531	(0.325)	262081	75.0000	71.8	
6	Trichlorofluoromethane	101	1.628	1.628	(0.346)	803424	75.0000	69.0	
7	Diethyl Ether	59	1.841	1.841	(0.391)	393708	75.0000	84.2	
8	1,1-Dichloroethene	96	1.976	1.976	(0.420)	589729	75.0000	76.9	
9	Carbon Disulfide	76	1.998	1.995	(0.425)	1308042	75.0000	74.6	
10	Freon-113	151	2.009	2.009	(0.427)	455583	75.0000	75.1	
11	Iodomethane	142	2.080	2.077	(0.442)	484627	75.0000	82.1	
12	Acrolein	56	2.226	2.227	(0.473)	299102	375.000	363	
13	Allyl Chloride	41	2.339	2.339	(0.497)	714754	75.0000	78.7	
14	Methylene Chloride	84	2.428	2.425	(0.516)	666927	75.0000	71.8	
15	Acetone	43	2.466	2.466	(0.524)	523226	375.000	367	
16	trans-1,2-Dichloroethene	96	2.563	2.564	(0.545)	663699	75.0000	75.3	
17	Methyl Acetate	43	2.582	2.582	(0.549)	325600	75.0000	70.0	
18	Methyl tert-butyl ether	73	2.668	2.665	(0.567)	1450177	75.0000	81.4	
19	Tertiary-butyl alcohol	59	2.773	2.769	(0.590)	130278	375.000	366	
20	Acetonitrile	41	2.881	2.878	(0.613)	486062	750.000	680	
21	Di-isopropyl ether	45	3.053	3.054	(0.649)	1557775	75.0000	82.6	
22	Chloroprene	53	3.128	3.129	(0.665)	824318	75.0000	80.3	
23	1,1-Dichloroethane	63	3.151	3.147	(0.670)	1067294	75.0000	74.6	
24	Acrylonitrile	52	3.199	3.196	(0.680)	679121	375.000	361	

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1997.D
Report Date: 09-Oct-2023 12:50

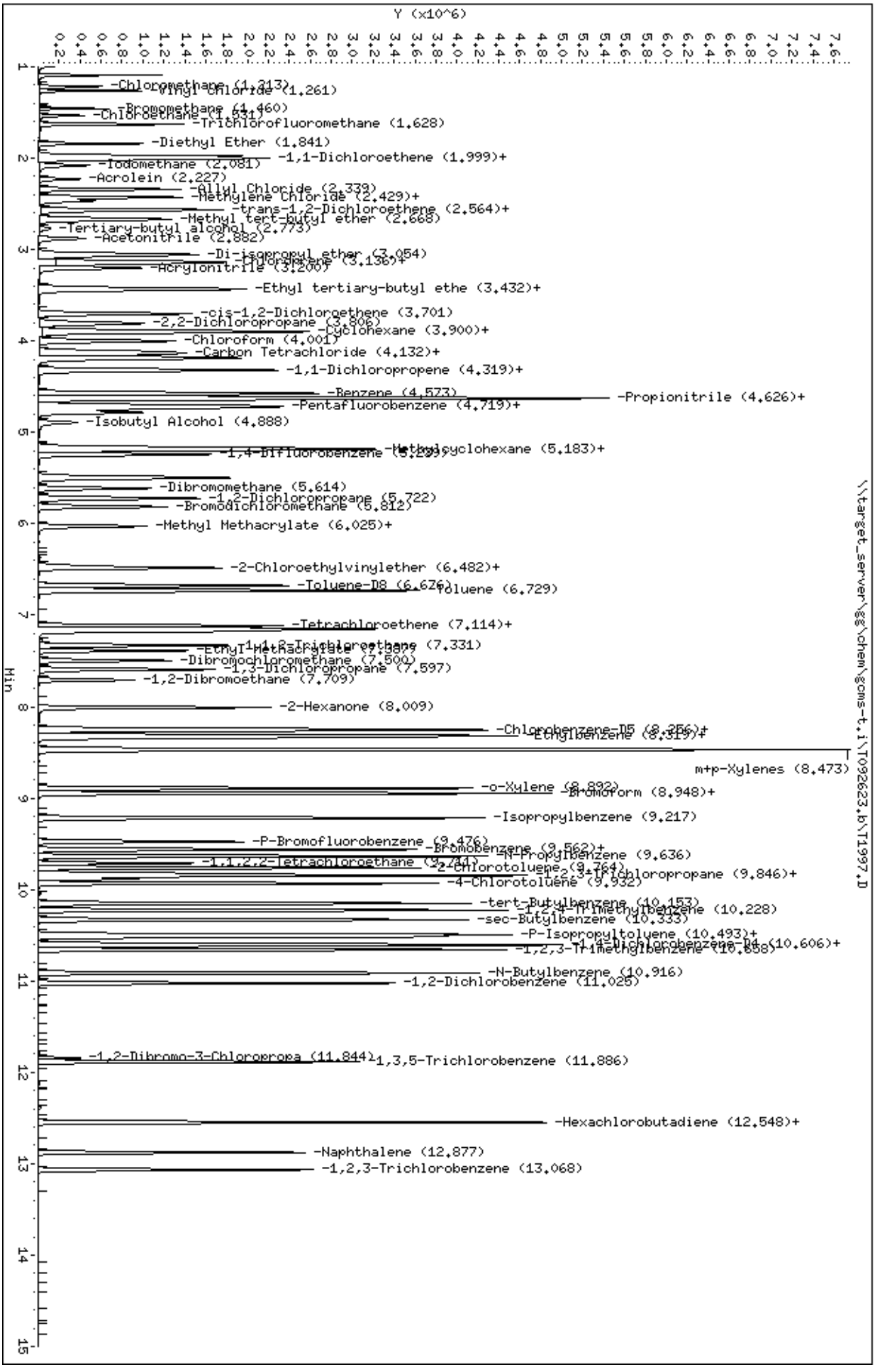
							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25 Ethyl tertiary-butyl ether	59	3.428	3.432	(0.729)	1471919	75.0000	85.5	
	26 Vinyl Acetate	43	3.435	3.435	(0.656)	1065881	75.0000	82.3	
	27 cis-1,2-Dichloroethene	96	3.701	3.705	(0.787)	735407	75.0000	77.8	
	28 2,2-Dichloropropane	77	3.806	3.806	(0.809)	770773	75.0000	77.9	
	29 Cyclohexane	56	3.895	3.896	(0.828)	911098	75.0000	80.0	
	30 Bromochloromethane	128	3.899	3.900	(0.829)	329157	75.0000	76.3	
	31 Chloroform	83	3.996	3.997	(0.850)	1146410	75.0000	75.5	
	32 Carbon Tetrachloride	117	4.116	4.117	(0.786)	859848	75.0000	78.8	
	33 Tetrahydrofuran	42	4.142	4.143	(0.881)	576657	375.000	375	
$	34 Dibromofluoromethane	113	4.180	4.179	(0.889)	431680	50.0000	49.5	
	35 1,1,1-Trichloroethane	97	4.187	4.187	(0.890)	1003579	75.0000	77.8	
	36 1,1-Dichloropropene	75	4.322	4.319	(0.825)	892789	75.0000	77.1	
	37 2-Butanone	43	4.314	4.315	(0.917)	871838	375.000	353	
	38 Benzene	78	4.573	4.573	(0.873)	2671524	75.0000	75.1	
	39 Propionitrile	54	4.603	4.603	(0.979)	594442	750.000	698	
	40 Methacrylonitrile	41	4.625	4.626	(0.983)	2518346	750.000	725	
*	41 Pentafluorobenzene	168	4.704	4.704	(1.000)	858607	50.0000		
$	42 1,2-Dichloroethane-D4	65	4.711	4.712	(1.002)	457192	50.0000	48.4	
	43 Tertiary-amyl methyl ether	73	4.730	4.734	(1.006)	1357467	75.0000	82.6	
	44 1,2-Dichloroethane	62	4.782	4.783	(0.913)	798937	75.0000	73.5	
	45 Isobutyl Alcohol	43	4.887	4.891	(1.039)	255051	1500.00	1350	
	46 Methylcyclohexane	83	5.168	5.172	(1.099)	1170048	75.0000	81.4	
	47 Trichloroethene	95	5.190	5.187	(0.991)	701694	75.0000	75.5	
*	48 1,4-Difluorobenzene	114	5.239	5.243	(1.000)	1478936	50.0000		
	49 Dibromomethane	93	5.613	5.610	(1.071)	410424	75.0000	75.6	
	50 1,2-Dichloropropane	63	5.722	5.722	(1.092)	660511	75.0000	77.8	
	51 Bromodichloromethane	83	5.811	5.812	(1.109)	869359	75.0000	79.6	
	52 Methyl Methacrylate	41	6.025	6.025	(1.150)	385391	75.0000	84.0	
	53 1,4-Dioxane	88	6.032	6.029	(1.151)	112394	1500.00	1380	
	54 2-Chloroethylvinylether	63	6.455	6.455	(1.232)	142176	75.0000	65.2	
	55 cis-1,3-dichloropropene	75	6.481	6.485	(1.237)	1062469	75.0000	83.7	
$	56 Toluene-D8	98	6.676	6.676	(1.274)	1696412	50.0000	49.5	
	57 Toluene	92	6.728	6.729	(1.284)	1698236	75.0000	75.0	
	58 Tetrachloroethene	164	7.114	7.114	(0.863)	552061	75.0000	79.0	
	59 4-methyl-2-pentanone	43	7.147	7.148	(1.364)	1875214	375.000	377	
	60 trans-1,3-Dichloropropene	75	7.177	7.174	(1.370)	882754	75.0000	80.8	
	61 1,1,2-Trichloroethane	83	7.327	7.331	(1.399)	512602	75.0000	76.3	
	62 Ethyl Methacrylate	69	7.387	7.387	(1.410)	767920	75.0000	72.1	
	63 Dibromochloromethane	129	7.499	7.500	(0.910)	678811	75.0000	81.8	
	64 1,3-Dichloropropane	76	7.596	7.593	(0.921)	1050199	75.0000	76.9	
	65 1,2-Dibromoethane	107	7.709	7.705	(1.471)	612458	75.0000	78.0	
	66 2-Hexanone	43	8.008	8.007	(0.971)	1246950	375.000	389	
*	67 Chlorobenzene-D5	117	8.244	8.244	(1.000)	1371111	50.0000		
	68 Chlorobenzene	112	8.259	8.259	(1.002)	1801982	75.0000	74.7	
	69 Ethylbenzene	91	8.315	8.314	(1.009)	3018176	75.0000	77.1	
	70 1,1,1,2-Tetrachloroethane	131	8.337	8.337	(1.011)	660360	75.0000	80.1	
	71 m+p-Xylenes	91	8.472	8.468	(1.028)	4348790	150.000	153	
	72 o-Xylene	91	8.891	8.892	(1.079)	2379633	75.0000	83.4	
	73 Bromoform	173	8.944	8.944	(1.085)	388591	75.0000	83.8	
	74 Styrene	104	8.947	8.948	(1.085)	1981267	75.0000	85.0	
	75 Isopropylbenzene	105	9.217	9.217	(0.870)	2900687	75.0000	84.8	
$	76 P-Bromofluorobenzene	95	9.475	9.475	(1.809)	631626	50.0000	49.9	
	77 Bromobenzene	156	9.561	9.562	(0.903)	778819	75.0000	79.7	
	78 cis-1,4-Dichloro-2-Butene	53	9.565	9.565	(0.903)	164789	75.0000	76.6	

Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1997.D
Report Date: 09-Oct-2023 12:50

							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	79 N-Propylbenzene	91	9.636	9.636	(0.910)	3363422	75.0000	80.0	
	80 1,1,2,2-Tetrachloroethane	83	9.711	9.711	(0.917)	711787	75.0000	74.4	
	81 2-Chlorotoluene	91	9.763	9.764	(0.922)	2045015	75.0000	80.3	
	82 1,2,3-Trichloropropane	75	9.819	9.820	(0.927)	555679	75.0000	72.9	
	83 1,3,5-Trimethylbenzene	105	9.846	9.846	(0.929)	2481162	75.0000	84.4	
	84 trans-1,4-Dichloro-2-Butene	53	9.883	9.883	(0.933)	164326	75.0000	79.9	
	85 4-Chlorotoluene	91	9.932	9.932	(0.937)	2132236	75.0000	80.7	
	86 tert-Butylbenzene	119	10.152	10.153	(0.958)	2068585	75.0000	84.7	
	87 1,2,4-Trimethylbenzene	105	10.227	10.228	(0.965)	2428793	75.0000	84.1	
	88 sec-Butylbenzene	105	10.332	10.332	(0.975)	2904371	75.0000	83.1	
	89 P-Isopropyltoluene	119	10.493	10.490	(0.990)	2500582	75.0000	86.1	
	90 1,3-Dichlorobenzene	146	10.515	10.516	(0.993)	1436184	75.0000	79.0	
*	91 1,4-Dichlorobenzene-D4	152	10.594	10.594	(1.000)	719072	50.0000		
	92 1,4-Dichlorobenzene	146	10.609	10.609	(1.001)	1481667	75.0000	76.8	
	93 1,2,3-Trimethylbenzene	105	10.658	10.658	(1.006)	2469723	75.0000	81.4	
	94 N-Butylbenzene	91	10.916	10.912	(1.030)	2280390	75.0000	84.0	
	95 1,2-Dichlorobenzene	146	11.024	11.025	(1.041)	1360201	75.0000	79.4	
	96 1,2-Dibromo-3-Chloropropane	157	11.848	11.848	(1.118)	111887	75.0000	78.0	
	97 1,3,5-Trichlorobenzene	180	11.885	11.885	(1.122)	934527	75.0000	82.7	
	98 Hexachlorobutadiene	225	12.544	12.544	(1.184)	346397	75.0000	78.3	
	99 1,2,4-Trichlorobenzene	180	12.547	12.548	(1.184)	885519	75.0000	87.2	
	100 Naphthalene	128	12.877	12.877	(1.215)	1880635	75.0000	76.6	
	101 1,2,3-Trichlorobenzene	180	13.068	13.068	(1.233)	767208	75.0000	83.6	
M	103 1,2-Dichloroethylene (total)	96				1399106	75.0000	(a)	
M	104 Total Alkylbenzenes	100				18027305	75.0000	(a)	
M	105 Xylenes (total)	91				6728423	75.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\T1997.D
Date : 26-SEP-2023 12:52
Client ID: Initial Calibration
Sample Info: WG343083-7
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-t.i
Operator: CR
Column diameter: 0.18
\\target_server\gg\chem\gcms-t.i\T092623.b\T1997.D
Y (x10^6)
Min
-Chloromethane (1.213)
-Vinyl Chloride (1.261)
-Bromomethane (1.460)
-Chloroethane (1.531)
-Trichlorofluoromethane (1.628)
-Diethyl Ether (1.841)
-1,1-Dichloroethene (1.999)+
-Iodomethane (2.081)
-Acrolein (2.227)
-Allyl Chloride (2.339)
-Methylene Chloride (2.429)+
-trans-1,2-Dichloroethene (2.564)+
-Methyl tert-butyl ether (2.668)
-Tertiary-butyl alcohol (2.773)
-Acetonitrile (2.882)
-Di-isopropyl ether (3.054)
-Acrylonitrile (3.200)
-Ethyl tertiary-butyl ethe (3.432)+
-cis-1,2-Dichloroethene (3.701)
-2,2-Dichloropropane (3.806)
-Cyclohexane (3.900)+
-Chloroform (4.001)
-Carbon Tetrachloride (4.132)+
-1,1-Dichloropropene (4.319)+
-Benzene (4.573)
-Propionitrile (4.626)+
-Pentafluorobenzene (4.719)+
-Isobutyl Alcohol (4.888)
-Methylcyclohexane (5.183)+
-1,4-Difluorobenzene (5.229)
-Dibromomethane (5.614)
-1,2-Dichloropropane (5.722)
-Bromodichloromethane (5.812)
-Methyl Methacrylate (6.025)+
-2-Chloroethylvinylether (6.482)+
-Toluene-D8 (6.676)
-Toluene (6.729)
-Tetrachloroethene (7.114)+
-Ethyl Methacrylate (7.287)
-1,1,2-Trichloroethane (7.331)
-Dibromochloromethane (7.500)
-1,3-Dichloropropane (7.597)
-1,2-Dibromoethane (7.709)
-2-Hexanone (8.009)
-Chlorobenzene-D5 (8.256)+
-Ethylbenzene (8.319)+
m+p-Xylenes (8.473)
-o-Xylene (8.892)
-Bromoform (8.948)+
-Isopropylbenzene (9.217)
-P-Bromofluorobenzene (9.476)
-Bromobenzene (9.562)+
-N-Propylbenzene (9.636)
-1,1,2,2-Tetrachloroethane (9.741)
-2-Chlorotoluene (9.764)
-1,3,5-Trichloropropane (9.846)+
-4-Chlorotoluene (9.932)
-tert-Butylbenzene (10.153)
-1,2,4-Trimethylbenzene (10.228)
-sec-Butylbenzene (10.333)
-P-Isopropyltoluene (10.493)+
-1,4-Dichlorobenzene-D4 (10.606)+
-1,2,3-Trimethylbenzene (10.658)
-N-Butylbenzene (10.916)
-1,2-Dichlorobenzene (11.025)
-1,2-Dibromo-3-Chloropropa (11.844)
-1,3,5-Trichlorobenzene (11.886)
-Hexachlorobutadiene (12.548)+
-Naphthalene (12.877)
-1,2,3-Trichlorobenzene (13.068)

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343209-4
Analytical Date: 09/28/23 08:44
Lab File ID: T2033.D
Instrument ID: GCMS-T
Initial Calibration Date(s): 09/26/23 09:49 09/26/23 12:52
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Vinyl chloride	0.44632	0.41265	0.41265	0.100	-7.54347	20.000	Averaged	
1,1-Dichloroethene	0.44801	0.43151	0.43151	0.100	-3.68312	20.000	Averaged	
Chloroform	0.88528	0.84503	0.84503	0.200	-4.54720	20.000	Averaged	
Carbon Tetrachloride	0.37140	0.37392	0.37392	0.100	0.67706	20.000	Averaged	
2-Butanone	0.14284	0.13429	0.13429	0.100	-5.98548	20.000	Averaged	
Benzene	1.20281	1.18341	1.18341	0.500	-1.61299	20.000	Averaged	
1,2-Dichloroethane	0.36668	0.34671	0.34671	0.100	-5.44641	20.000	Averaged	
Trichloroethene	0.31444	0.31074	0.31074	0.200	-1.17725	20.000	Averaged	
Tetrachloroethene	0.25667	0.25763	0.25763	0.200	0.37409	20.000	Averaged	
Chlorobenzene	0.87889	0.85661	0.85661	0.500	-2.53510	20.000	Averaged	
Dibromofluoromethane	0.50711	0.49336	0.49336	0.010	-2.71186	20.000	Averaged	
1,2-Dichloroethane-D4	0.54762	0.52558	0.52558	0.010	-4.02604	20.000	Averaged	
Toluene-D8	1.15667	1.14599	1.14599	0.010	-0.92285	20.000	Averaged	
P-Bromofluorobenzene	0.42763	0.43220	0.43220	0.010	1.06908	20.000	Averaged	

*** = Compound out of QC criteria**

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Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\T2033.D
Report Date: 12-Oct-2023 12:44

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T092823.b\T2033.D
Lab Smp Id: WG343209-4
Inj Date : 28-SEP-2023 08:44
Operator : CR   Inst ID: gcms-t.i
Smp Info : WG343209-4,SQ5108
Misc Info : WG343209,WG343083-4,SQ5108-1
Comment   : SW846 5030
Method   : \\target_server\gg\chem\gcms-t.i\T092823.b\T826(33)23.m
Meth Date : 12-Oct-2023 12:44 croy   Quant Type: ISTD
Cal Date : 26-SEP-2023 12:52   Cal File: T1997.D
Als bottle: 1   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOA-WS

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

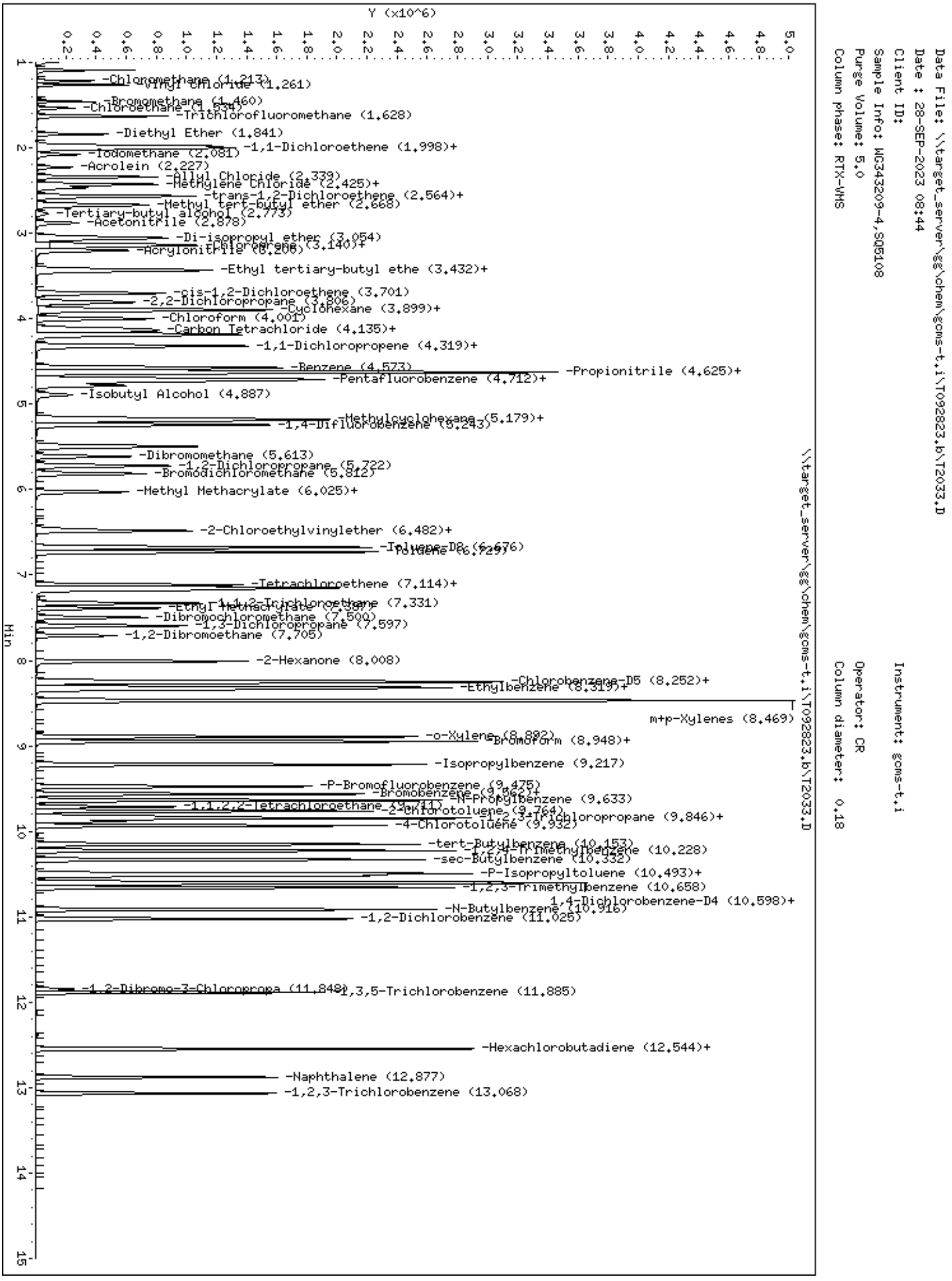
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.092	1.089	(0.232)	348394	50.0000	45.0	
2	Chloromethane	50	1.212	1.213	(0.258)	338639	50.0000	45.7	
3	Vinyl chloride	62	1.261	1.257	(0.268)	334000	50.0000	46.2	
4	Bromomethane	94	1.459	1.456	(0.310)	121926	50.0000	47.4	
5	Chloroethane	64	1.534	1.531	(0.326)	165197	50.0000	49.4	
6	Trichlorofluoromethane	101	1.627	1.628	(0.346)	512132	50.0000	47.1	
7	Diethyl Ether	59	1.841	1.841	(0.391)	195812	50.0000	43.7	
8	1,1-Dichloroethene	96	1.975	1.976	(0.420)	349260	50.0000	48.2	
9	Carbon Disulfide	76	1.994	1.995	(0.424)	796592	50.0000	48.2	
10	Freon-113	151	2.009	2.009	(0.427)	272347	50.0000	47.6	
11	Iodomethane	142	2.080	2.077	(0.442)	286299	50.0000	51.6	
12	Acrolein	56	2.226	2.227	(0.473)	179207	250.000	232	
13	Allyl Chloride	41	2.338	2.339	(0.497)	417397	50.0000	48.4	
14	Methylene Chloride	84	2.428	2.425	(0.516)	395454	50.0000	45.4	
15	Acetone	43	2.466	2.466	(0.524)	326986	250.000	254	
16	trans-1,2-Dichloroethene	96	2.563	2.564	(0.545)	394675	50.0000	47.5	
17	Methyl Acetate	43	2.582	2.582	(0.549)	199534	50.0000	45.9	
18	Methyl tert-butyl ether	73	2.668	2.665	(0.567)	847103	50.0000	49.9	
19	Tertiary-butyl alcohol	59	2.769	2.769	(0.589)	83897	250.000	251	
20	Acetonitrile	41	2.877	2.878	(0.612)	304936	500.000	458	
21	Di-isopropyl ether	45	3.053	3.054	(0.649)	894053	50.0000	49.7	
22	Chloroprene	53	3.128	3.129	(0.665)	493052	50.0000	50.5	
23	1,1-Dichloroethane	63	3.151	3.147	(0.670)	642194	50.0000	47.6	

Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\T2033.D
Report Date: 12-Oct-2023 12:44

							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	24 Acrylonitrile	52	3.195	3.196	(0.679)	415141	250.000	235	
	25 Ethyl tertiary-butyl ether	59	3.427	3.432	(0.729)	833357	50.0000	50.5	
	26 Vinyl Acetate	43	3.435	3.435	(0.655)	631193	50.0000	52.3	
	27 cis-1,2-Dichloroethene	96	3.701	3.705	(0.787)	431085	50.0000	48.2	
	28 2,2-Dichloropropane	77	3.809	3.806	(0.810)	491323	50.0000	52.4	
	29 Cyclohexane	56	3.899	3.896	(0.829)	538853	50.0000	49.8	
	30 Bromochloromethane	128	3.899	3.900	(0.829)	199312	50.0000	48.9	
	31 Chloroform	83	3.996	3.997	(0.850)	683964	50.0000	47.7	
	32 Carbon Tetrachloride	117	4.116	4.117	(0.785)	508943	50.0000	50.3	
	33 Tetrahydrofuran	42	4.142	4.143	(0.881)	355808	250.000	246	
$	34 Dibromofluoromethane	113	4.180	4.179	(0.889)	399326	50.0000	48.6	
	35 1,1,1-Trichloroethane	97	4.191	4.187	(0.891)	597497	50.0000	48.9	
	36 1,1-Dichloropropene	75	4.318	4.319	(0.824)	536267	50.0000	50.1	
	37 2-Butanone	43	4.314	4.315	(0.917)	543462	250.000	235	
	38 Benzene	78	4.573	4.573	(0.872)	1610757	50.0000	49.2	
	39 Propionitrile	54	4.603	4.603	(0.979)	380286	500.000	478	
	40 Methacrylonitrile	41	4.629	4.626	(0.984)	1583799	500.000	486	
*	41 Pentafluorobenzene	168	4.704	4.704	(1.000)	809399	50.0000		
$	42 1,2-Dichloroethane-D4	65	4.715	4.712	(1.002)	425400	50.0000	48.0	
	43 Tertiary-amyl methyl ether	73	4.734	4.734	(1.006)	773600	50.0000	49.3	
	44 1,2-Dichloroethane	62	4.782	4.783	(0.912)	471908	50.0000	47.3	
	45 Isobutyl Alcohol	43	4.891	4.891	(1.040)	157806	1000.00	897	
	46 Methylcyclohexane	83	5.171	5.172	(1.099)	695287	50.0000	50.8	
	47 Trichloroethene	95	5.190	5.187	(0.990)	422948	50.0000	49.4	
*	48 1,4-Difluorobenzene	114	5.242	5.243	(1.000)	1361115	50.0000		
	49 Dibromomethane	93	5.613	5.610	(1.071)	245415	50.0000	49.1	
	50 1,2-Dichloropropane	63	5.721	5.722	(1.091)	386365	50.0000	49.2	
	51 Bromodichloromethane	83	5.811	5.812	(1.108)	509219	50.0000	50.3	
	52 Methyl Methacrylate	41	6.025	6.025	(1.149)	234101	50.0000	54.6	
	53 1,4-Dioxane	88	6.032	6.029	(1.151)	73827	1000.00	1020	
	54 2-Chloroethylvinylether	63	6.455	6.455	(1.231)	79327	50.0000	39.4	
	55 cis-1,3-dichloropropene	75	6.481	6.485	(1.236)	628545	50.0000	53.0	
$	56 Toluene-D8	98	6.676	6.676	(1.273)	1559827	50.0000	49.5	
	57 Toluene	92	6.728	6.729	(1.283)	1028920	50.0000	49.4	
	58 Tetrachloroethene	164	7.117	7.114	(0.863)	326578	50.0000	50.2	
	59 4-methyl-2-pentanone	43	7.147	7.148	(1.363)	1186661	250.000	259	
	60 trans-1,3-Dichloropropene	75	7.177	7.174	(1.369)	521074	50.0000	51.3	
	61 1,1,2-Trichloroethane	83	7.327	7.331	(1.398)	302806	50.0000	48.9	
	62 Ethyl Methacrylate	69	7.387	7.387	(1.409)	452125	50.0000	46.4	
	63 Dibromochloromethane	129	7.495	7.500	(0.909)	397374	50.0000	51.2	
	64 1,3-Dichloropropane	76	7.596	7.593	(0.921)	631535	50.0000	49.8	
	65 1,2-Dibromoethane	107	7.705	7.705	(1.470)	363678	50.0000	50.1	
	66 2-Hexanone	43	8.008	8.007	(0.971)	775998	250.000	261	
*	67 Chlorobenzene-D5	117	8.244	8.244	(1.000)	1267610	50.0000		
	68 Chlorobenzene	112	8.259	8.259	(1.002)	1085846	50.0000	48.7	
	69 Ethylbenzene	91	8.315	8.314	(1.009)	1860127	50.0000	51.2	
	70 1,1,1,2-Tetrachloroethane	131	8.337	8.337	(1.011)	384375	50.0000	50.0	
	71 m+p-Xylenes	91	8.468	8.468	(1.027)	2829220	100.000	108	
	72 o-Xylene	91	8.891	8.892	(1.079)	1436850	50.0000	53.7	
	73 Bromoform	173	8.944	8.944	(1.085)	226568	50.0000	52.1	
	74 Styrene	104	8.947	8.948	(1.085)	1180996	50.0000	53.9	
	75 Isopropylbenzene	105	9.217	9.217	(0.870)	1775662	50.0000	53.2	
$	76 P-Bromofluorobenzene	95	9.475	9.475	(1.807)	588280	50.0000	50.5	
	77 Bromobenzene	156	9.561	9.562	(0.903)	458057	50.0000	48.4	

Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\T2033.D
Report Date: 12-Oct-2023 12:44

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	78	cis-1,4-Dichloro-2-Butene	53	9.565	9.565	(0.903)	105664	50.0000	51.0	
	79	N-Propylbenzene	91	9.636	9.636	(0.910)	2108829	50.0000	51.8	
	80	1,1,2,2-Tetrachloroethane	83	9.711	9.711	(0.917)	440201	50.0000	47.9	
	81	2-Chlorotoluene	91	9.763	9.764	(0.922)	1236453	50.0000	50.1	
	82	1,2,3-Trichloropropane	75	9.819	9.820	(0.927)	348026	50.0000	47.7	
	83	1,3,5-Trimethylbenzene	105	9.845	9.846	(0.929)	1517591	50.0000	52.9	
	84	trans-1,4-Dichloro-2-Butene	53	9.883	9.883	(0.933)	103310	50.0000	51.8	
	85	4-Chlorotoluene	91	9.931	9.932	(0.937)	1303649	50.0000	50.9	
	86	tert-Butylbenzene	119	10.152	10.153	(0.958)	1252701	50.0000	52.5	
	87	1,2,4-Trimethylbenzene	105	10.227	10.228	(0.965)	1500077	50.0000	53.3	
	88	sec-Butylbenzene	105	10.332	10.332	(0.975)	1795993	50.0000	52.8	
	89	P-Isopropyltoluene	119	10.489	10.490	(0.990)	1543146	50.0000	54.3	
	90	1,3-Dichlorobenzene	146	10.515	10.516	(0.993)	875019	50.0000	49.8	
*	91	1,4-Dichlorobenzene-D4	152	10.594	10.594	(1.000)	690804	50.0000		
	92	1,4-Dichlorobenzene	146	10.609	10.609	(1.001)	911436	50.0000	49.0	
	93	1,2,3-Trimethylbenzene	105	10.657	10.658	(1.006)	1510396	50.0000	51.3	
	94	N-Butylbenzene	91	10.916	10.912	(1.030)	1421315	50.0000	53.7	
	95	1,2-Dichlorobenzene	146	11.024	11.025	(1.041)	830257	50.0000	50.1	
	96	1,2-Dibromo-3-Chloropropane	157	11.848	11.848	(1.118)	67243	50.0000	48.6	
	97	1,3,5-Trichlorobenzene	180	11.885	11.885	(1.122)	562754	50.0000	51.2	
	98	Hexachlorobutadiene	225	12.547	12.544	(1.184)	206882	50.0000	48.4	
	99	1,2,4-Trichlorobenzene	180	12.547	12.548	(1.184)	524076	50.0000	52.7	
	100	Naphthalene	128	12.877	12.877	(1.215)	1148989	50.0000	48.6	
	101	1,2,3-Trichlorobenzene	180	13.067	13.068	(1.233)	457912	50.0000	51.2	
M	103	1,2-Dichloroethylene (total)	96				825760	50.0000	95.7	
M	104	Total Alkylbenzenes	100				11139652	50.0000	371	
M	105	Xylenes (total)	91				4266070	150.000	161	


Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\T2033.D
Date : 28-SEP-2023 08:44
Client ID:
Sample Info: WG343209-4,SQ5108
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-t.i
Operator: CR
Column diameter: 0.18
\\target_server\gg\chem\gcms-t.i\T092823.b\T2033.D
Y (x10^6)
Min
-Chloromethane (1.213)
-Vinyl Chloride (1.261)
-Bromomethane (1.460)
-Chloroethane (1.534)
-Trichlorofluoromethane (1.628)
-Diethyl Ether (1.841)
-1,1-Dichloroethene (1.998)+
-Iodomethane (2.081)
-Acrolein (2.227)
-Allyl Chloride (2.339)
-Methylene Chloride (2.425)+
-trans-1,2-Dichloroethene (2.564)+
-Methyl tert-butyl ether (2.668)
-Tertiary-butyl alcohol (2.773)
-Acetonitrile (2.878)
-Di-isopropyl ether (3.054)
-Chloroprene (3.140)+
-Acrylonitrile (3.206)
-Ethyl tertiary-butyl ethe (3.432)+
-cis-1,2-Dichloroethene (3.701)
-2,2-Dichloropropane (3.806)
-Cyclohexane (3.899)+
-Chloroform (4.001)
-Carbon Tetrachloride (4.135)+
-1,1-Dichloropropene (4.319)+
-Benzene (4.573)
-Propionitrile (4.625)+
-Pentafluorobenzene (4.712)+
-Isobutyl Alcohol (4.887)
-Methylcyclohexane (5.179)+
-1,4-Difluorobenzene (5.243)
-Dibromomethane (5.613)
-1,2-Dichloropropane (5.722)
-Bromodichloromethane (5.812)
-Methyl Methacrylate (6.025)+
-2-Chloroethylvinylether (6.482)+
-Toluene-D8 (6.676)
Toluene (6.729)
-Tetrachloroethene (7.114)+
-1,1,2-Trichloroethane (7.331)
-Ethyl Methacrylate (7.387)
-Dibromochloromethane (7.500)
-1,3-Dichloropropane (7.597)
-1,2-Dibromoethane (7.705)
-2-Hexanone (8.008)
-Chlorobenzene-D5 (8.252)+
-Ethylbenzene (8.319)+
m+p-Xylenes (8.469)
-o-Xylene (8.892)
-Bromoform (8.948)+
-Isopropylbenzene (9.217)
-P-Bromofluorobenzene (9.475)
-Bromobenzene (9.562)+
-N-Propylbenzene (9.633)
-1,1,2,2-Tetrachloroethane (9.711)
-2-Chlorotoluene (9.764)
-1,2,3-Trichloropropane (9.846)+
-4-Chlorotoluene (9.932)
-tert-Butylbenzene (10.153)
-1,2,4-Trimethylbenzene (10.228)
-sec-Butylbenzene (10.332)
-P-Isopropyltoluene (10.493)+
-1,2,3-Trimethylbenzene (10.658)
1,4-Dichlorobenzene-D4 (10.598)+
-N-Butylbenzene (10.916)
-1,2-Dichlorobenzene (11.025)
-1,2-Dibromo-3-Chloropropa (11.848)
1,3,5-Trichlorobenzene (11.885)
-Hexachlorobutadiene (12.544)+
-Naphthalene (12.877)
-1,2,3-Trichlorobenzene (13.068)

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343209-5
Analytical Date: 09/28/23 18:10
Lab File ID: T2054.D
Instrument ID: GCMS-T
Initial Calibration Date(s): 09/26/23 09:49 09/26/23 12:52
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Vinyl chloride	0.44632	0.44835	0.44835	0.100	0.45546	50.000	Averaged	
1,1-Dichloroethene	0.44801	0.45395	0.45395	0.100	1.32630	50.000	Averaged	
Chloroform	0.88528	0.88534	0.88534	0.200	0.00609	50.000	Averaged	
Carbon Tetrachloride	0.37140	0.39328	0.39328	0.100	5.89024	50.000	Averaged	
2-Butanone	0.14284	0.13967	0.13967	0.100	-2.21523	50.000	Averaged	
Benzene	1.20281	1.23639	1.23639	0.500	2.79206	50.000	Averaged	
1,2-Dichloroethane	0.36668	0.36865	0.36865	0.100	0.53833	50.000	Averaged	
Trichloroethene	0.31444	0.32794	0.32794	0.200	4.29533	50.000	Averaged	
Tetrachloroethene	0.25667	0.25401	0.25401	0.200	-1.03878	50.000	Averaged	
Chlorobenzene	0.87889	0.87808	0.87808	0.500	-0.09172	50.000	Averaged	
Dibromofluoromethane	0.50711	0.49894	0.49894	0.010	-1.61265	50.000	Averaged	
1,2-Dichloroethane-D4	0.54762	0.54242	0.54242	0.010	-0.95008	50.000	Averaged	
Toluene-D8	1.15667	1.16427	1.16427	0.010	0.65745	50.000	Averaged	
P-Bromofluorobenzene	0.42763	0.43470	0.43470	0.010	1.65175	50.000	Averaged	

*** = Compound out of QC criteria**

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Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\T2054.D
Report Date: 12-Oct-2023 12:40

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T092823.b\T2054.D
Lab Smp Id: WG343209-5
Inj Date : 28-SEP-2023 18:10
Operator : CR   Inst ID: gcms-t.i
Smp Info : WG343209-5,SQ5108
Misc Info : WG343209,WG343083-4,SQ5108-1
Comment   : SW846 5030
Method   : \\target_server\gg\chem\gcms-t.i\T092823.b\T826(33)23.m
Meth Date : 11-Oct-2023 11:40 croy   Quant Type: ISTD
Cal Date : 26-SEP-2023 12:52   Cal File: T1997.D
Als bottle: 22   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: ORGANICS2

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

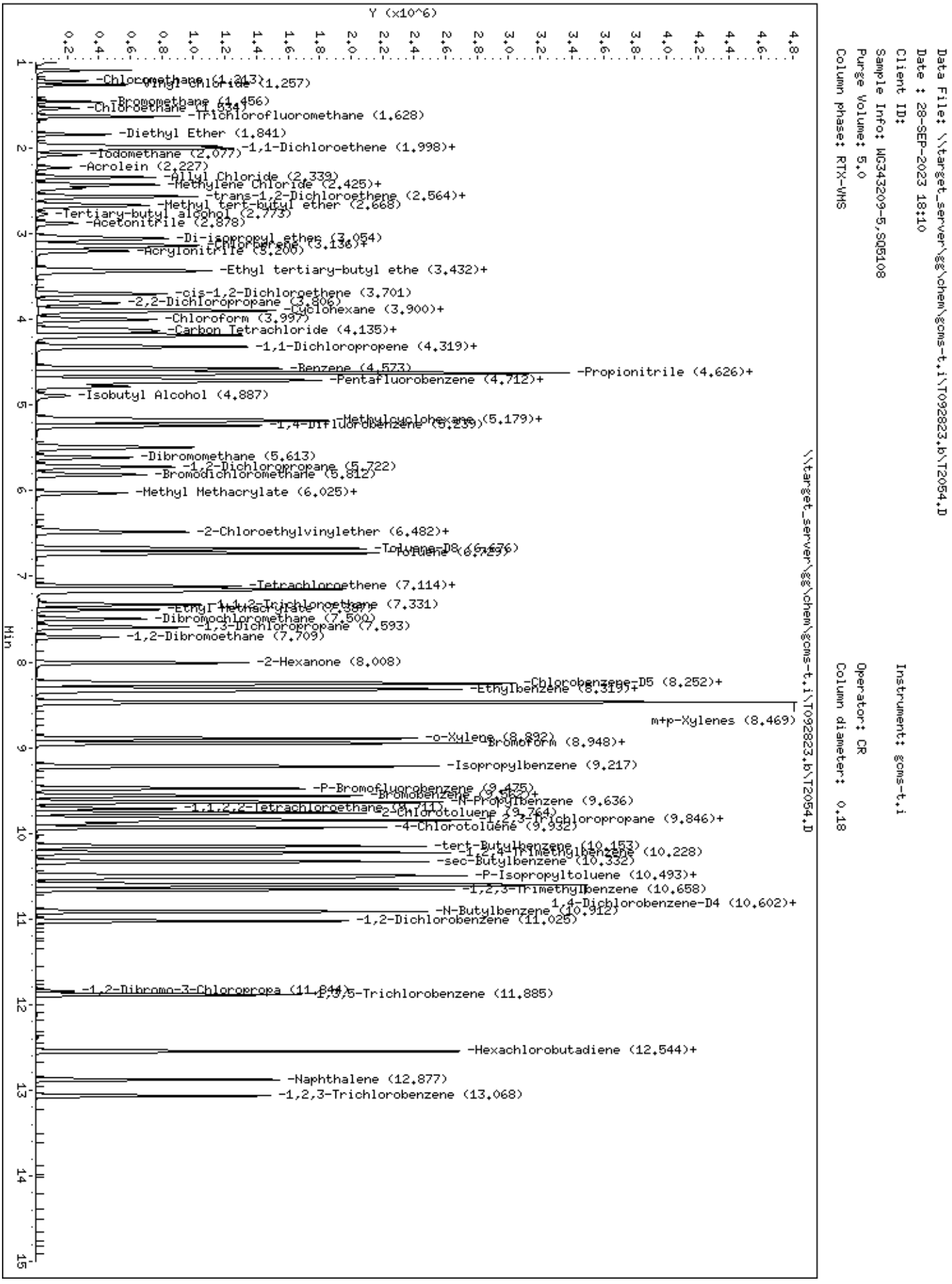
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.092	1.089	(0.232)	333136	50.0000	47.1	
2	Chloromethane	50	1.212	1.213	(0.258)	329606	50.0000	48.7	
3	Vinyl chloride	62	1.257	1.257	(0.267)	331425	50.0000	50.2	
4	Bromomethane	94	1.455	1.456	(0.309)	124535	50.0000	53.0	
5	Chloroethane	64	1.534	1.531	(0.326)	171259	50.0000	56.0	
6	Trichlorofluoromethane	101	1.627	1.628	(0.346)	519927	50.0000	52.4	
7	Diethyl Ether	59	1.841	1.841	(0.391)	192697	50.0000	47.1	
8	1,1-Dichloroethene	96	1.976	1.976	(0.420)	335561	50.0000	50.7	
9	Carbon Disulfide	76	1.994	1.995	(0.424)	754515	50.0000	50.0	
10	Freon-113	151	2.009	2.009	(0.427)	253652	50.0000	48.6	
11	Iodomethane	142	2.080	2.077	(0.442)	282989	50.0000	55.6	
12	Acrolein	56	2.226	2.227	(0.473)	160546	250.000	227	
13	Allyl Chloride	41	2.339	2.339	(0.497)	395959	50.0000	50.3	
14	Methylene Chloride	84	2.425	2.425	(0.516)	383783	50.0000	48.2	
15	Acetone	43	2.466	2.466	(0.524)	298376	250.000	254	
16	trans-1,2-Dichloroethene	96	2.563	2.564	(0.545)	375157	50.0000	49.4	
17	Methyl Acetate	43	2.582	2.582	(0.549)	190866	50.0000	48.0	
18	Methyl tert-butyl ether	73	2.668	2.665	(0.567)	771708	50.0000	49.8	
19	Tertiary-butyl alcohol	59	2.773	2.769	(0.590)	67257	250.000	220	
20	Acetonitrile	41	2.877	2.878	(0.612)	283290	500.000	466	
21	Di-isopropyl ether	45	3.053	3.054	(0.649)	842347	50.0000	51.2	
22	Chloroprene	53	3.128	3.129	(0.665)	470263	50.0000	52.8	
23	1,1-Dichloroethane	63	3.151	3.147	(0.670)	621233	50.0000	50.5	

Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\T2054.D
Report Date: 12-Oct-2023 12:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	24 Acrylonitrile	52	3.199	3.196	(0.680)	401267	250.000	249	
	25 Ethyl tertiary-butyl ether	59	3.431	3.432	(0.730)	761975	50.0000	50.5	
	26 Vinyl Acetate	43	3.435	3.435	(0.656)	587462	50.0000	52.9	
	27 cis-1,2-Dichloroethene	96	3.704	3.705	(0.788)	409401	50.0000	50.1	
	28 2,2-Dichloropropane	77	3.809	3.806	(0.810)	381217	50.0000	44.5	
	29 Cyclohexane	56	3.895	3.896	(0.828)	520997	50.0000	52.7	
	30 Bromochloromethane	128	3.899	3.900	(0.829)	188974	50.0000	50.8	
	31 Chloroform	83	3.996	3.997	(0.850)	654446	50.0000	50.0	
	32 Carbon Tetrachloride	117	4.112	4.117	(0.785)	493035	50.0000	52.9	
	33 Tetrahydrofuran	42	4.139	4.143	(0.880)	340521	250.000	258	
$	34 Dibromofluoromethane	113	4.180	4.179	(0.889)	368816	50.0000	49.2	
	35 1,1,1-Trichloroethane	97	4.187	4.187	(0.890)	577551	50.0000	51.8	
	36 1,1-Dichloropropene	75	4.318	4.319	(0.824)	514347	50.0000	52.2	
	37 2-Butanone	43	4.314	4.315	(0.917)	516236	250.000	244	
	38 Benzene	78	4.573	4.573	(0.873)	1550012	50.0000	51.4	
	39 Propionitrile	54	4.603	4.603	(0.979)	362331	500.000	499	
	40 Methacrylonitrile	41	4.625	4.626	(0.983)	1539275	500.000	517	
*	41 Pentafluorobenzene	168	4.704	4.704	(1.000)	739206	50.0000		
$	42 1,2-Dichloroethane-D4	65	4.711	4.712	(1.002)	400960	50.0000	49.5	
	43 Tertiary-amyl methyl ether	73	4.730	4.734	(1.006)	696247	50.0000	48.6	
	44 1,2-Dichloroethane	62	4.782	4.783	(0.913)	462162	50.0000	50.3	
	45 Isobutyl Alcohol	43	4.887	4.891	(1.039)	145596	1000.00	906	
	46 Methylcyclohexane	83	5.168	5.172	(1.099)	660456	50.0000	52.8	
	47 Trichloroethene	95	5.186	5.187	(0.990)	411129	50.0000	52.1	
*	48 1,4-Difluorobenzene	114	5.239	5.243	(1.000)	1253655	50.0000		
	49 Dibromomethane	93	5.613	5.610	(1.071)	236302	50.0000	51.3	
	50 1,2-Dichloropropane	63	5.721	5.722	(1.092)	371348	50.0000	51.4	
	51 Bromodichloromethane	83	5.811	5.812	(1.109)	489582	50.0000	52.5	
	52 Methyl Methacrylate	41	6.025	6.025	(1.150)	216368	50.0000	54.8	
	53 1,4-Dioxane	88	6.028	6.029	(1.151)	58879	1000.00	888	
	54 2-Chloroethylvinylether	63	6.455	6.455	(1.232)	68756	50.0000	37.1	
	55 cis-1,3-dichloropropene	75	6.481	6.485	(1.237)	578861	50.0000	53.0	
$	56 Toluene-D8	98	6.676	6.676	(1.274)	1459594	50.0000	50.3	
	57 Toluene	92	6.728	6.729	(1.284)	985209	50.0000	51.3	
	58 Tetrachloroethene	164	7.114	7.114	(0.863)	301785	50.0000	49.5	
	59 4-methyl-2-pentanone	43	7.147	7.148	(1.364)	1148343	250.000	272	
	60 trans-1,3-Dichloropropene	75	7.173	7.174	(1.369)	483828	50.0000	51.7	
	61 1,1,2-Trichloroethane	83	7.331	7.331	(1.399)	290528	50.0000	50.9	
	62 Ethyl Methacrylate	69	7.391	7.387	(1.411)	425422	50.0000	47.4	
	63 Dibromochloromethane	129	7.499	7.500	(0.910)	376663	50.0000	51.8	
	64 1,3-Dichloropropane	76	7.593	7.593	(0.921)	606716	50.0000	51.1	
	65 1,2-Dibromoethane	107	7.709	7.705	(1.471)	346175	50.0000	51.8	
	66 2-Hexanone	43	8.008	8.007	(0.971)	745375	250.000	267	
*	67 Chlorobenzene-D5	117	8.244	8.244	(1.000)	1188100	50.0000		
	68 Chlorobenzene	112	8.259	8.259	(1.002)	1043251	50.0000	50.0	
	69 Ethylbenzene	91	8.315	8.314	(1.009)	1790232	50.0000	52.6	
	70 1,1,1,2-Tetrachloroethane	131	8.337	8.337	(1.011)	365675	50.0000	50.7	
	71 m+p-Xylenes	91	8.468	8.468	(1.027)	2746803	100.000	111	
	72 o-Xylene	91	8.891	8.892	(1.079)	1370909	50.0000	54.7	
	73 Bromoform	173	8.944	8.944	(1.085)	211688	50.0000	51.9	
	74 Styrene	104	8.947	8.948	(1.085)	1143817	50.0000	55.7	
	75 Isopropylbenzene	105	9.217	9.217	(0.870)	1701311	50.0000	54.6	
$	76 P-Bromofluorobenzene	95	9.475	9.475	(1.809)	544959	50.0000	50.8	
	77 Bromobenzene	156	9.561	9.562	(0.903)	431644	50.0000	48.9	

Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\T2054.D
Report Date: 12-Oct-2023 12:40

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	78	cis-1,4-Dichloro-2-Butene	53	9.561	9.565	(0.903)	90851	50.0000	47.0	
	79	N-Propylbenzene	91	9.636	9.636	(0.910)	2027163	50.0000	53.3	
	80	1,1,2,2-Tetrachloroethane	83	9.711	9.711	(0.917)	425650	50.0000	49.7	
	81	2-Chlorotoluene	91	9.763	9.764	(0.922)	1188350	50.0000	51.6	
	82	1,2,3-Trichloropropane	75	9.819	9.820	(0.927)	339318	50.0000	49.9	
	83	1,3,5-Trimethylbenzene	105	9.845	9.846	(0.929)	1442637	50.0000	53.9	
	84	trans-1,4-Dichloro-2-Butene	53	9.883	9.883	(0.933)	89816	50.0000	48.3	
	85	4-Chlorotoluene	91	9.932	9.932	(0.937)	1243752	50.0000	52.0	
	86	tert-Butylbenzene	119	10.152	10.153	(0.958)	1197633	50.0000	53.8	
	87	1,2,4-Trimethylbenzene	105	10.227	10.228	(0.965)	1425884	50.0000	54.3	
	88	sec-Butylbenzene	105	10.332	10.332	(0.975)	1712362	50.0000	53.9	
	89	P-Isopropyltoluene	119	10.493	10.490	(0.990)	1466135	50.0000	55.3	
	90	1,3-Dichlorobenzene	146	10.515	10.516	(0.993)	829251	50.0000	50.6	
*	91	1,4-Dichlorobenzene-D4	152	10.594	10.594	(1.000)	644418	50.0000		
	92	1,4-Dichlorobenzene	146	10.609	10.609	(1.001)	860220	50.0000	49.6	
	93	1,2,3-Trimethylbenzene	105	10.658	10.658	(1.006)	1437808	50.0000	52.3	
	94	N-Butylbenzene	91	10.912	10.912	(1.030)	1321484	50.0000	53.5	
	95	1,2-Dichlorobenzene	146	11.024	11.025	(1.041)	782085	50.0000	50.6	
	96	1,2-Dibromo-3-Chloropropane	157	11.848	11.848	(1.118)	62470	50.0000	48.4	
	97	1,3,5-Trichlorobenzene	180	11.885	11.885	(1.122)	495827	50.0000	48.3	
	98	Hexachlorobutadiene	225	12.544	12.544	(1.184)	182284	50.0000	45.7	
	99	1,2,4-Trichlorobenzene	180	12.547	12.548	(1.184)	472080	50.0000	50.8	
	100	Naphthalene	128	12.877	12.877	(1.215)	1069732	50.0000	48.5	
	101	1,2,3-Trichlorobenzene	180	13.068	13.068	(1.233)	419252	50.0000	50.2	
M	103	1,2-Dichloroethylene (total)	96				784558	50.0000	99.5	
M	104	Total Alkylbenzenes	100				10593298	50.0000	378	
M	105	Xylenes (total)	91				4117712	150.000	166	


Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\T2054.D
Date : 28-SEP-2023 18:10
Client ID:
Sample Info: WG343209-5,SQ5108
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-t.i
Operator: CR
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane (1.213)
-Vinyl Chloride (1.257)
-Bromomethane (1.456)
-Chloroethane (1.534)
-Trichlorofluoromethane (1.628)
-Diethyl Ether (1.841)
-1,1-Dichloroethene (1.998)+
-Iodomethane (2.077)
-Acrolein (2.227)
-Allyl Chloride (2.339)
-Methylene Chloride (2.425)+
-trans-1,2-Dichloroethene (2.564)+
-Methyl tert-butyl ether (2.668)
-Tertiary-butyl alcohol (2.773)
-Acetonitrile (2.878)
-Di-isopropyl ether (3.054)
-Chloroprene (3.136)+
-Acrylonitrile (3.200)
-Ethyl tertiary-butyl ethe (3.432)+
-cis-1,2-Dichlorgethene (3.701)
-2,2-Dichloropropane (3.806)
-Cyclohexane (3.900)+
-Chloroform (3.997)
-Carbon Tetrachloride (4.135)+
-1,1-Dichloropropene (4.319)+
-Benzene (4.573)
-Propionitrile (4.626)+
-Pentafluorobenzene (4.712)+
-Isobutyl Alcohol (4.887)
-Methylcyclohexane (5.179)+
-1,4-Difluorobenzene (5.239)
-Dibromomethane (5.613)
-1,2-Dichloropropane (5.722)
-Bromodichloromethane (5.812)
-Methyl Methacrylate (6.025)+
-2-Chloroethylvinylether (6.482)+
-Toluene-D8 (6.676)
-Toluene (6.723)
-Tetrachloroethene (7.114)+
-1,1,2-Trichloroethane (7.331)
-Ethyl Methacrylate (7.387)
-Dibromochloromethane (7.500)
-1,3-Dichloropropane (7.593)
-1,2-Dibromoethane (7.709)
-2-Hexanone (8.008)
-Chlorobenzene-D5 (8.252)+
-Ethylbenzene (8.319)+
m+p-Xylenes (8.469)
-o-Xylene (8.892)
-Bromoform (8.948)+
-Isopropylbenzene (9.217)
-P-Bromofluorobenzene (9.475)
-Bromobenzene (9.562)+
-N-Propylbenzene (9.636)
-1,1,2,2-Tetrachloroethane (9.711)
-2-Chlorotoluene (9.764)
-1,2,3-Trichloropropane (9.846)+
-4-Chlorotoluene (9.932)
-tert-Butylbenzene (10.153)
-1,2,4-Trimethylbenzene (10.228)
-sec-Butylbenzene (10.332)
-P-Isopropyltoluene (10.493)+
-1,2,3-Trimethylbenzene (10.658)
1,4-Dichlorobenzene-D4 (10.602)+
-N-Butylbenzene (10.912)
-1,2-Dichlorobenzene (11.025)
-1,2-Dibromo-3-Chloropropa (11.844)
1,3,5-Trichlorobenzene (11.885)
-Hexachlorobutadiene (12.544)+
-Naphthalene (12.877)
-1,2,3-Trichlorobenzene (13.068)
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Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\TB583a.D

Date : 26-SEP-2023 09:29

Client ID:

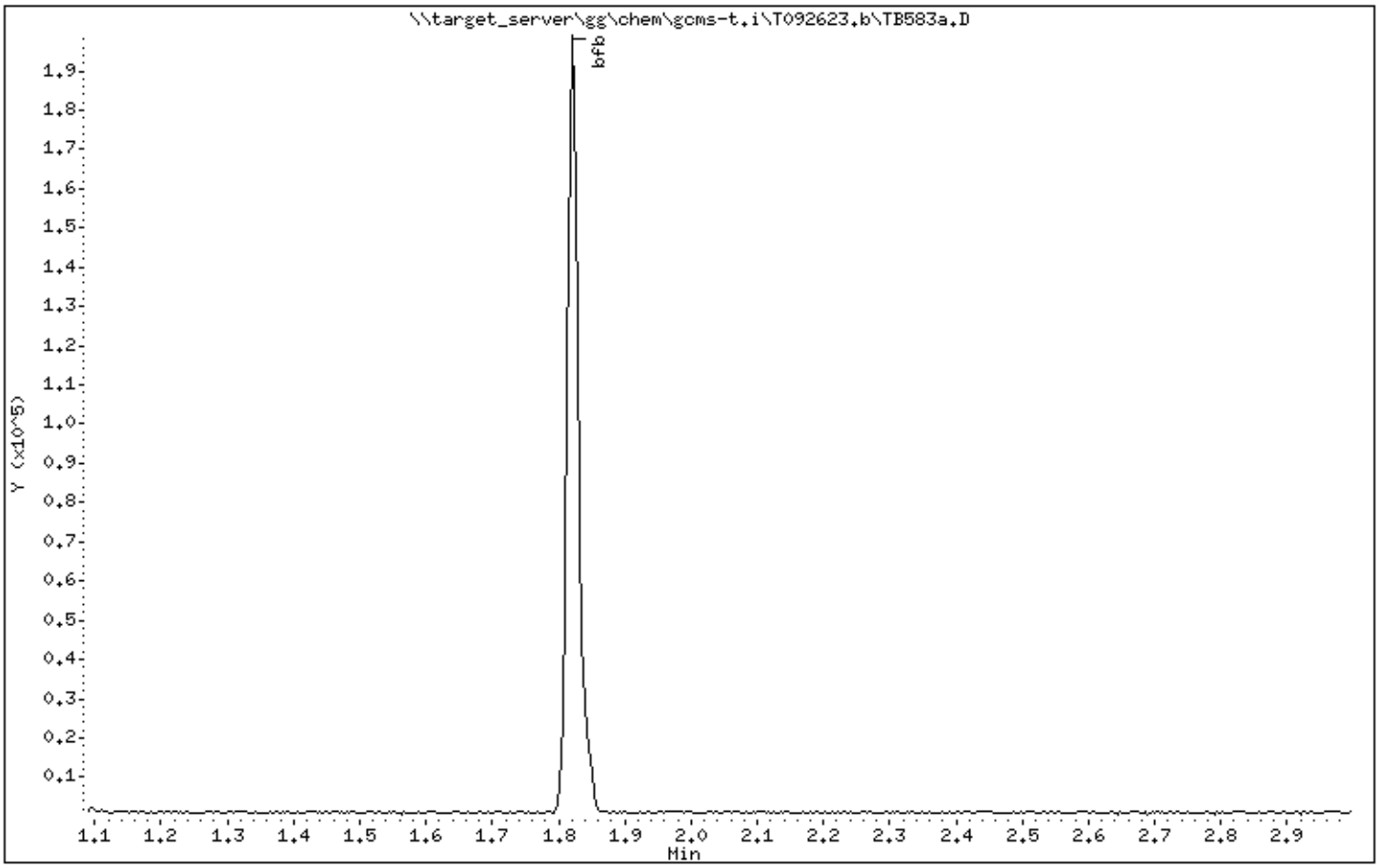
Instrument: gcms-t.i

Sample Info: WG343083-12,MABBETT-DOW-2

Operator: CR

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-t.i\T092623.b\TB583a.D

Date : 26-SEP-2023 09:29

Client ID:

Instrument: gcms-t.i

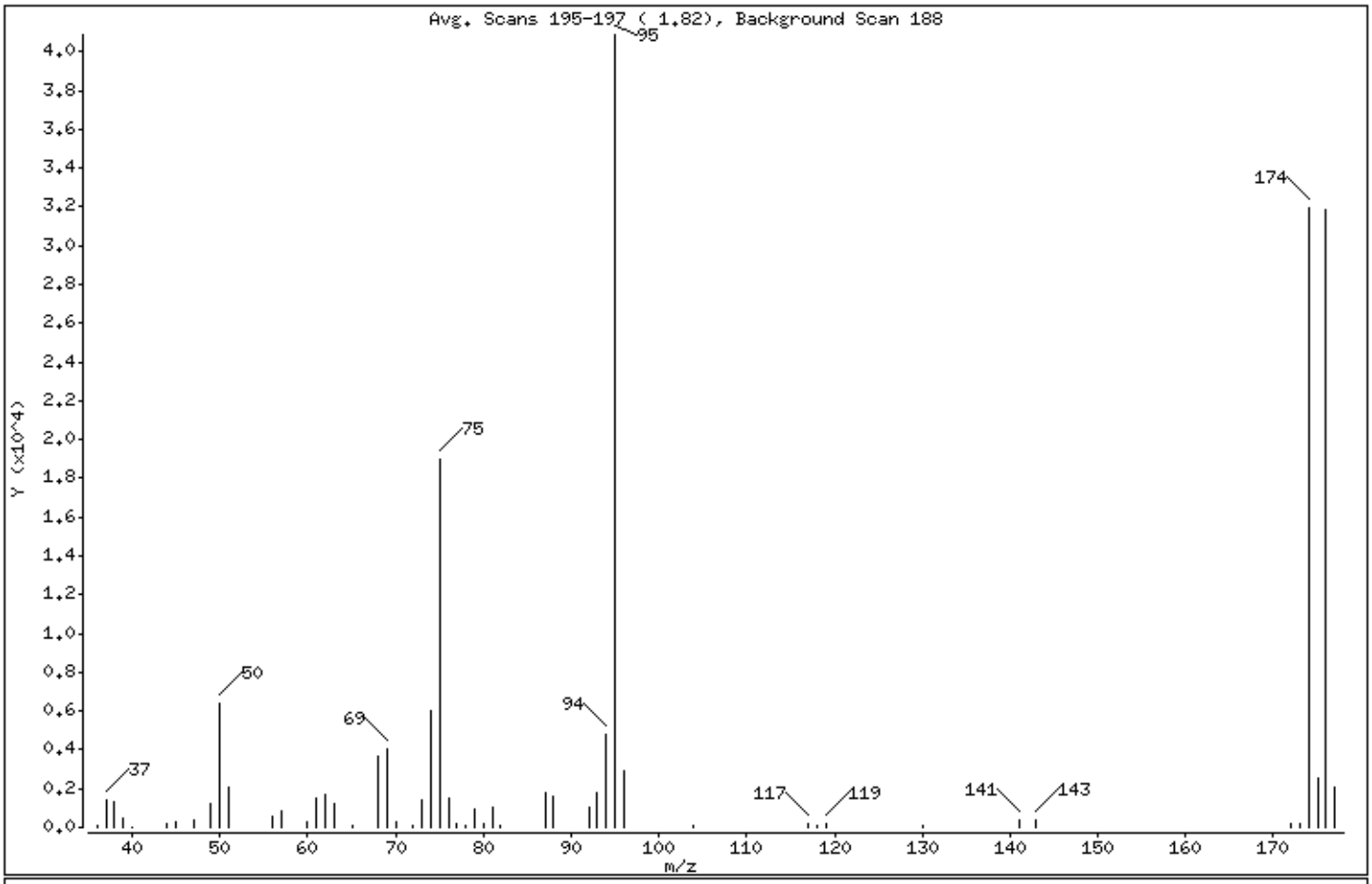
Sample Info: WG343083-12,MABBETT-DOW-2

Operator: CR

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.62
75	30.00 - 60.00% of mass 95	46.45
96	5.00 - 9.00% of mass 95	7.13
173	Less than 2.00% of mass 174	0.55 (0.70)
174	Greater than 50.00% of mass 95	78.25
175	5.00 - 9.00% of mass 174	6.21 (7.94)
176	95.00 - 101.00% of mass 174	77.84 (99.47)
177	5.00 - 9.00% of mass 176	5.01 (6.43)

Date : 26-SEP-2023 09:29

Client ID: Instrument: gcms-t.i

Sample Info: WG343083-12,MABBETT-DOW-2

Operator: CR

Column phase: RTX-VMS Column diameter: 0.18

Data File: TB583a.D
Spectrum: Avg. Scans 195-197 (1.82), Background Scan 188
Location of Maximum: 95.00
Number of points: 52

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	108	61.00	1476	79.00	972	119.00	222
37.00	1426	62.00	1658	80.00	221	130.00	106
38.00	1353	63.00	1202	81.00	1060	141.00	375
39.00	494	65.00	90	82.00	123	143.00	376
40.00	45	68.00	3623	87.00	1783	172.00	144
44.00	159	69.00	3994	88.00	1573	173.00	225
45.00	274	70.00	257	92.00	1079	174.00	31984
47.00	411	72.00	91	93.00	1809	175.00	2539
49.00	1225	73.00	1395	94.00	4800	176.00	31816
50.00	6384	74.00	6059	95.00	40872	177.00	2047
51.00	2055	75.00	18984	96.00	2913		
56.00	574	76.00	1509	104.00	108		
57.00	877	77.00	183	117.00	213		
60.00	292	78.00	128	118.00	84		

Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\TB585a.D

Date : 28-SEP-2023 08:23

Client ID:

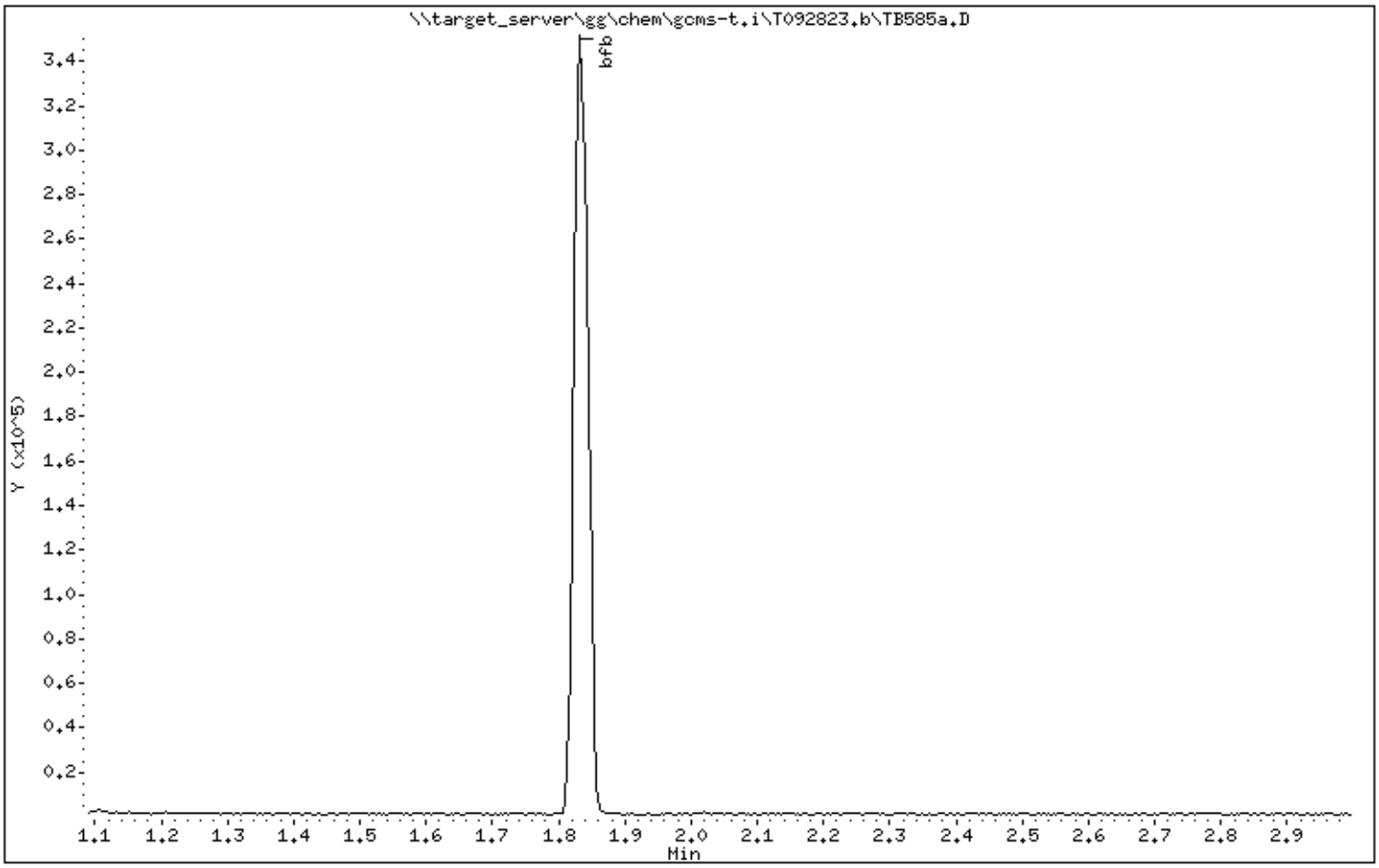
Instrument: gcms-t.i

Sample Info: WG343209-3,SQ5147

Operator: CR

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\TB585a.D

Date : 28-SEP-2023 08:23

Client ID:

Instrument: gcms-t.i

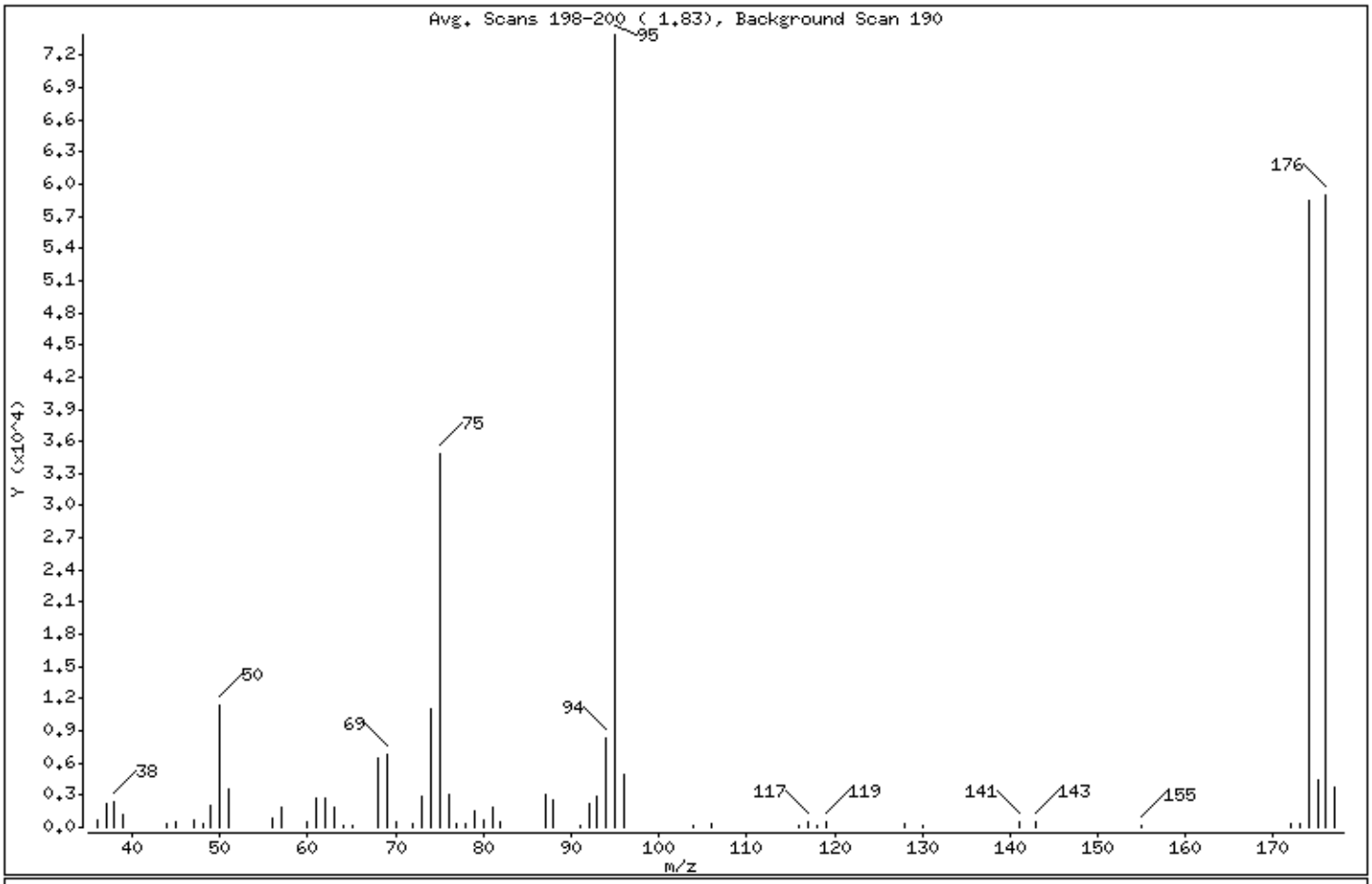
Sample Info: WG343209-3,SQ5147

Operator: CR

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.33
75	30.00 - 60.00% of mass 95	47.08
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.39 (0.50)
174	Greater than 50.00% of mass 95	79.11
175	5.00 - 9.00% of mass 174	5.91 (7.48)
176	95.00 - 101.00% of mass 174	79.68 (100.72)
177	5.00 - 9.00% of mass 176	5.05 (6.34)

Date : 28-SEP-2023 08:23

Client ID: Instrument: gcms-t.i

Sample Info: WG343209-3,SQ5147

Operator: CR

Column phase: RTX-VMS Column diameter: 0.18

Data File: TB585a.D
Spectrum: Avg. Scans 198-200 (1.83), Background Scan 190
Location of Maximum: 95.00
Number of points: 58

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	763	62.00	2780	80.00	617	118.00	126
37.00	2200	63.00	1863	81.00	1842	119.00	545
38.00	2315	64.00	117	82.00	454	128.00	343
39.00	1193	65.00	178	87.00	3034	130.00	99
44.00	313	68.00	6500	88.00	2619	141.00	512
45.00	490	69.00	6807	91.00	210	143.00	474
47.00	625	70.00	537	92.00	2157	155.00	113
48.00	373	72.00	345	93.00	2944	172.00	279
49.00	2069	73.00	2839	94.00	8319	173.00	290
50.00	11333	74.00	10990	95.00	73936	174.00	58488
51.00	3595	75.00	34808	96.00	4946	175.00	4373
56.00	928	76.00	2987	104.00	207	176.00	58912
57.00	1831	77.00	421	106.00	366	177.00	3736
60.00	571	78.00	355	116.00	228		
61.00	2680	79.00	1452	117.00	516		

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5108
Lab ID: WG343209-2
Client ID: Method Blank
Matrix: AQ
Lab File ID: T2036.D

Sample Date: N/A
Extract Date: 28-SEP-23
Extracted By: CR
Extraction Method: SW846 5030
Lab Prep Batch: WG343209

Report Date: 12-OCT-23
Analysis Date: 28-SEP-23
Analyst: CR
Analysis Method: SW846 8260C
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	0.75	ug/L	1	1	1.0	0.37	0.75
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.25	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Chloroform	U	0.75	ug/L	1	1	1.0	0.37	0.75
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.25	0.50
1,1-Dichloroethene	U	0.75	ug/L	1	1	1.0	0.37	0.75
2-Butanone	U	3.0	ug/L	1	5	5.0	1.5	3.0
Tetrachloroethene	U	1.0	ug/L	1	2	2.0	0.50	1.0
Trichloroethene	U	0.75	ug/L	1	1	1.0	0.37	0.75
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.50	1.0
1,2-Dichloroethane-D4		101.	%					
Toluene-D8		99.2	%					
p-Bromofluorobenzene		96.5	%					
Dibromofluoromethane		99.2	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\T2036.D
Report Date: 12-Oct-2023 12:40

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T092823.b\T2036.D
Lab Smp Id: WG343209-2 Client Smp ID: WG343209-Blank
Inj Date : 28-SEP-2023 10:20
Operator : CR Inst ID: gcms-t.i
Smp Info : WG343209-2,SQ5108
Misc Info : WG343209,WG343083-4,SQ5108-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T092823.b\T826(33)23.m
Meth Date : 11-Oct-2023 11:40 croy Quant Type: ISTD
Cal Date : 26-SEP-2023 12:52 Cal File: T1997.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOA-WS

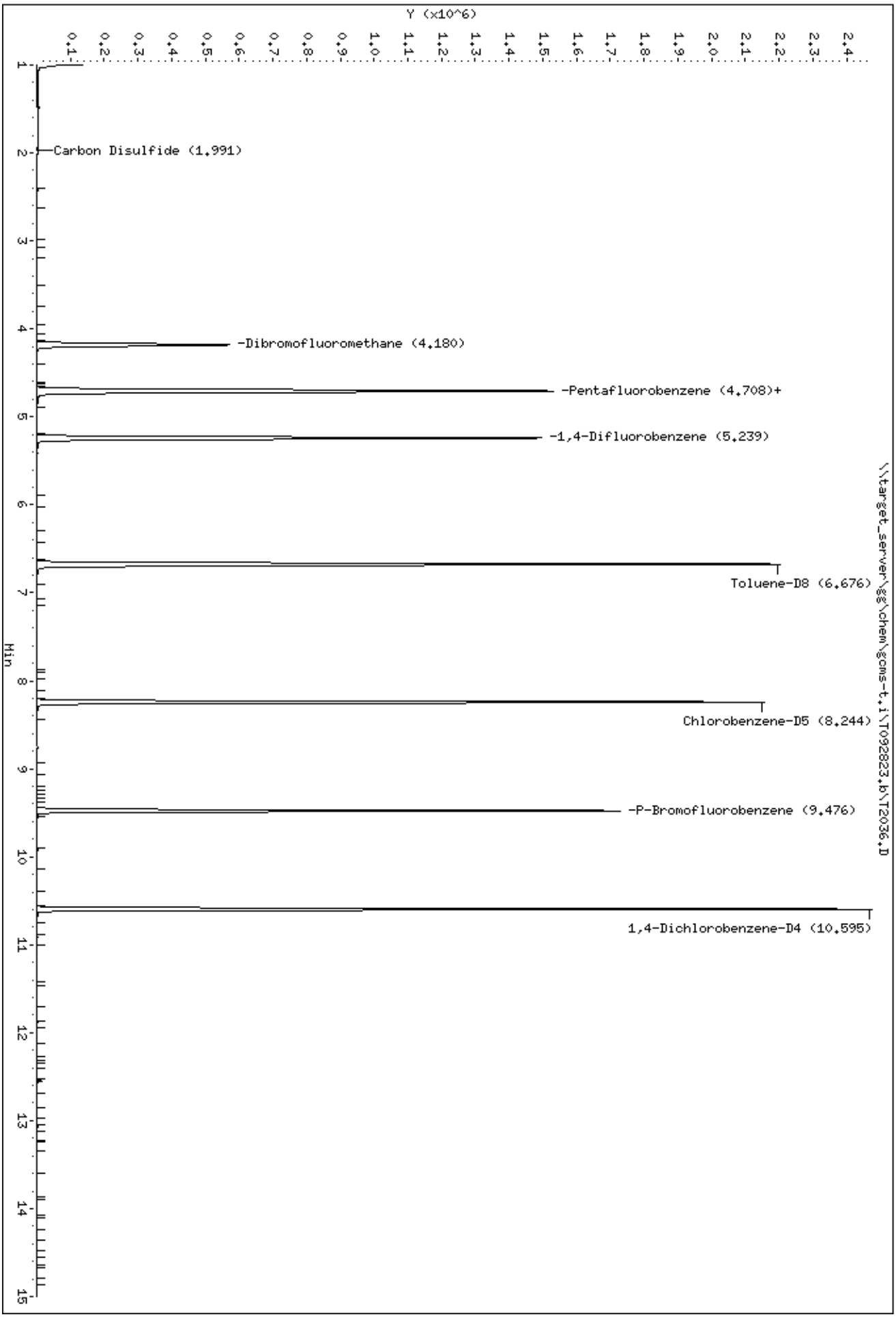
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
9	Carbon Disulfide	76	1.991	1.995	(0.423)	4029	0.26529	0.265(a)	
$ 34	Dibromofluoromethane	113	4.180	4.179	(0.889)	374398	49.5995	49.6	
* 41	Pentafluorobenzene	168	4.704	4.704	(1.000)	744254	50.0000		
$ 42	1,2-Dichloroethane-D4	65	4.711	4.712	(1.002)	413338	50.7076	50.7	
* 48	1,4-Difluorobenzene	114	5.239	5.243	(1.000)	1312256	50.0000		
$ 56	Toluene-D8	98	6.676	6.676	(1.274)	1505795	49.6031	49.6	
* 67	Chlorobenzene-D5	117	8.244	8.244	(1.000)	1205495	50.0000		
$ 76	P-Bromofluorobenzene	95	9.475	9.475	(1.809)	541732	48.2686	48.3	
* 91	1,4-Dichlorobenzene-D4	152	10.594	10.594	(1.000)	617864	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Y (x10^6)
Min
Carbon Disulfide (1.991)
-Dibromofluoromethane (4.180)
-Pentafluorobenzene (4.708)+
-1,4-Difluorobenzene (5.239)
Toluene-D8 (6.676)
Chlorobenzene-D5 (8.244)
-P-Bromofluorobenzene (9.476)
1,4-Dichlorobenzene-D4 (10.595)
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Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\T2036.D
Date : 28-SEP-2023 10:20
Client ID: WG343209-Blank
Sample Info: WG343209-2,SQ5108
Instrument: gcms-t.i

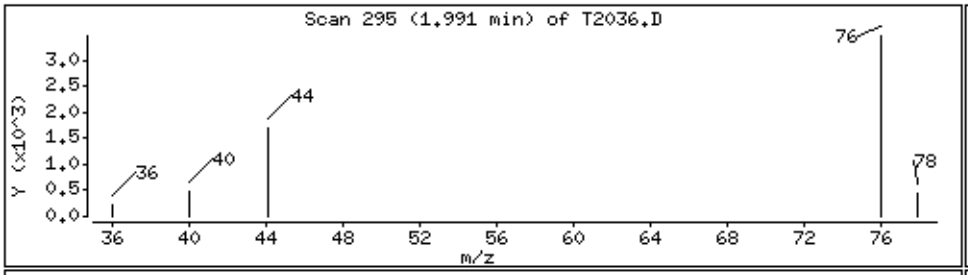
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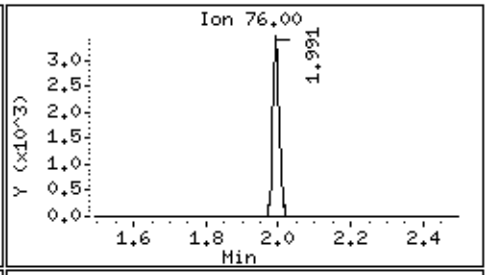
Date : 28-SEP-2023 10:20

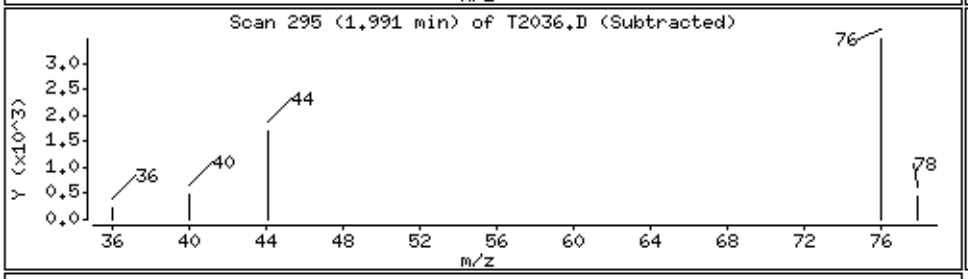
Client ID: WG343209-Blank Instrument: gcms-t.i

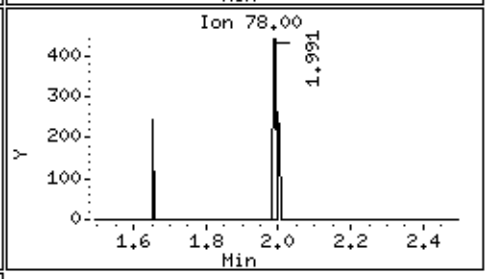
Sample Info: WG343209-2,SQ5108

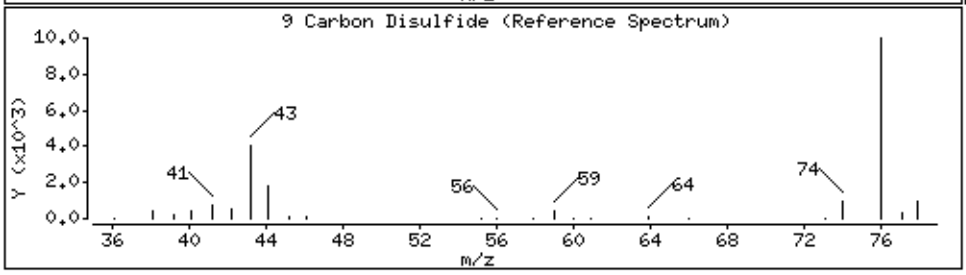
9 Carbon Disulfide Concentration: 0.265 ug/l











Katahdin
ANALYTICAL SERVICES

LCS Recovery Report

Lab ID: WG343209-1
Client ID: LCS
SDG: SQ5108
LCS File ID: T2034.D
Report Date: 12-OCT-23

Extract Date: 28-SEP-23
Extracted By: CR
Extraction Method: SW846 5030
Lab Prep Batch: WG343209

Analysis Date: 28-SEP-23
Analyst: CR
Analysis Method: SW846 8260C
Matrix: AQ

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Benzene	96.8	50.0	48.4	ug/L	79-120
Carbon Tetrachloride	99.2	50.0	49.6	ug/L	72-136
Chlorobenzene	96.8	50.0	48.4	ug/L	82-118
Chloroform	93.6	50.0	46.8	ug/L	79-124
1,2-Dichloroethane	93.6	50.0	46.8	ug/L	73-128
1,1-Dichloroethene	99.8	50.0	49.9	ug/L	71-131
2-Butanone	96.6	50.0	48.3	ug/L	56-143
Tetrachloroethene	97.6	50.0	48.8	ug/L	74-129
Trichloroethene	96.4	50.0	48.2	ug/L	79-123
Vinyl Chloride	93.8	50.0	46.9	ug/L	58-137
1,2-Dichloroethane-D4	95.4				81-118
Toluene-D8	99.0				89-112
p-Bromofluorobenzene	101.				85-114
Dibromofluoromethane	97.2				80-119

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Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\T2034.D
Report Date: 12-Oct-2023 12:40

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T092823.b\T2034.D
Lab Smp Id: WG343209-1
Inj Date : 28-SEP-2023 09:20
Operator : CR   Inst ID: gcms-t.i
Smp Info : WG343209-1,SQ5108
Misc Info : WG343209,WG343083-4,SQ5108-1
Comment   : SW846 5030
Method   : \\target_server\gg\chem\gcms-t.i\T092823.b\T826(33)23.m
Meth Date : 11-Oct-2023 11:40 croy   Quant Type: ISTD
Cal Date : 26-SEP-2023 12:52   Cal File: T1997.D
Als bottle: 2   QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

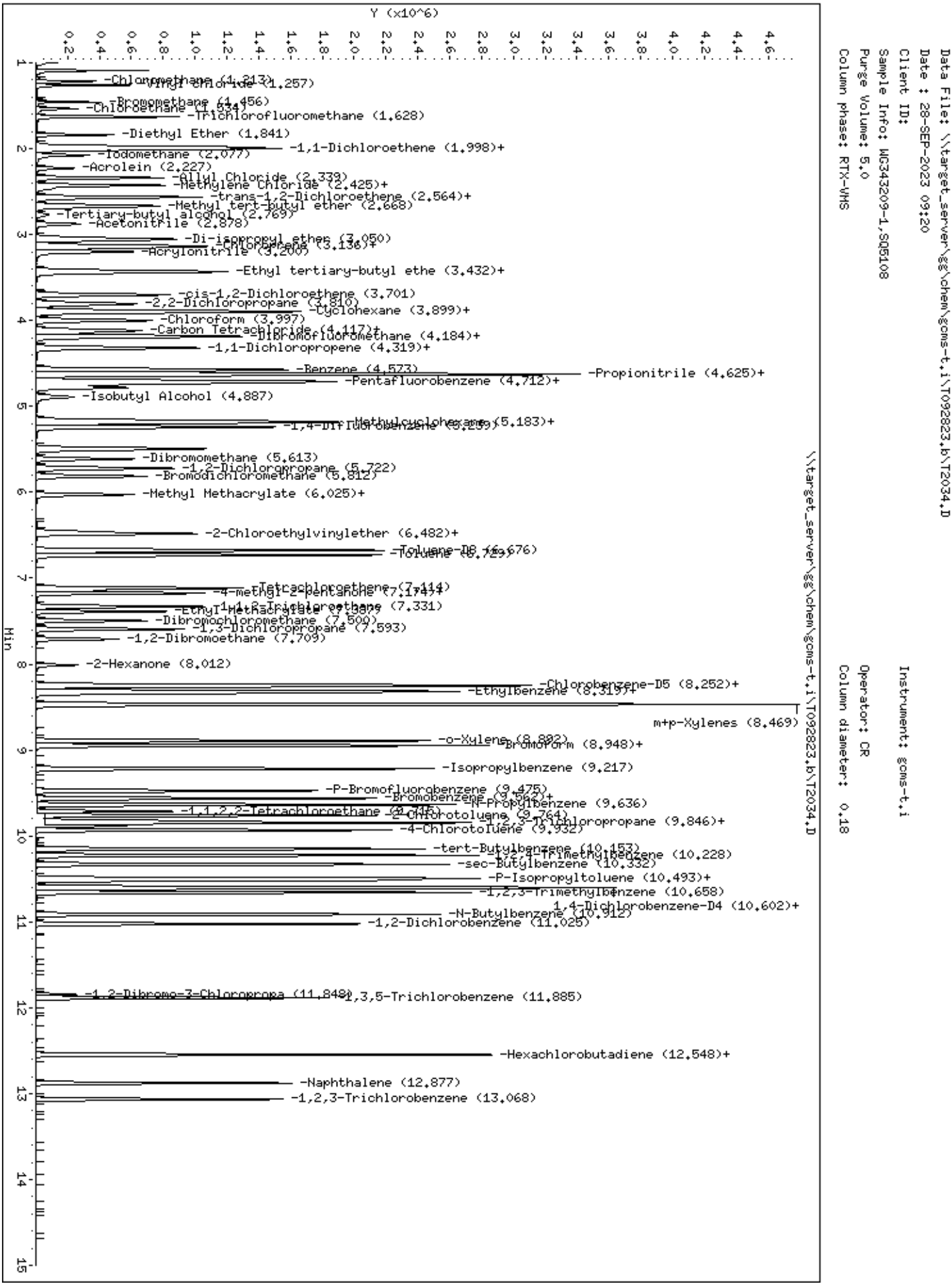
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.089	1.089	(0.232)	390221	51.2838	51.3	
2	Chloromethane	50	1.212	1.213	(0.258)	353184	48.5011	48.5	
3	Vinyl chloride	62	1.257	1.257	(0.267)	333289	46.9127	46.9	
4	Bromomethane	94	1.455	1.456	(0.309)	120304	47.5326	47.5	
5	Chloroethane	64	1.534	1.531	(0.326)	167270	50.8329	50.8	
6	Trichlorofluoromethane	101	1.627	1.628	(0.346)	529621	49.5729	49.6	
7	Diethyl Ether	59	1.841	1.841	(0.391)	193912	44.0593	44.0	
8	1,1-Dichloroethene	96	1.975	1.976	(0.420)	355835	49.8977	49.9	
9	Carbon Disulfide	76	1.994	1.995	(0.424)	1040713	64.0788	64.1	
10	Freon-113	151	2.009	2.009	(0.427)	275152	48.9152	48.9	
11	Iodomethane	142	2.077	2.077	(0.442)	324822	58.9916	59.0	
12	Acrolein	56	2.226	2.227	(0.473)	180604	237.312	237	
13	Allyl Chloride	41	2.338	2.339	(0.497)	424024	50.0511	50.0	
14	Methylene Chloride	84	2.425	2.425	(0.516)	393196	45.8864	45.9	
15	Acetone	43	2.466	2.466	(0.524)	77494	64.4099	64.4	
16	trans-1,2-Dichloroethene	96	2.563	2.564	(0.545)	387455	47.4230	47.4	
17	Methyl Acetate	43	2.582	2.582	(0.549)	189462	44.2857	44.3	
18	Methyl tert-butyl ether	73	2.672	2.665	(0.568)	878630	52.6238	52.6	
19	Tertiary-butyl alcohol	59	2.765	2.769	(0.588)	81604	248.280	248	
20	Acetonitrile	41	2.877	2.878	(0.612)	299793	457.789	458	
21	Di-isopropyl ether	45	3.053	3.054	(0.649)	896938	50.6920	50.7	
22	Chloroprene	53	3.128	3.129	(0.665)	490893	51.1598	51.2	
23	1,1-Dichloroethane	63	3.147	3.147	(0.669)	646945	48.8177	48.8	
24	Acrylonitrile	52	3.199	3.196	(0.680)	413254	238.244	238	

Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\T2034.D
Report Date: 12-Oct-2023 12:40

			QUANT SIG					CONCENTRATIONS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	25	Ethyl tertiary-butyl ether	59	3.427	3.432	(0.729)	837073	51.5634	51.6	
	26	Vinyl Acetate	43	3.431	3.435	(0.655)	672613	56.7317	56.7	
	27	cis-1,2-Dichloroethene	96	3.701	3.705	(0.787)	426084	48.4260	48.4	
	28	2,2-Dichloropropane	77	3.809	3.806	(0.810)	477128	51.7748	51.8	
	29	Cyclohexane	56	3.895	3.896	(0.828)	587170	55.1408	55.1	
	30	Bromochloromethane	128	3.899	3.900	(0.829)	203217	50.7318	50.7	
	31	Chloroform	83	3.996	3.997	(0.850)	659370	46.7910	46.8	
	32	Carbon Tetrachloride	117	4.116	4.117	(0.786)	492916	49.5854	49.6	
	33	Tetrahydrofuran	42	4.146	4.143	(0.881)	78497	55.1329	55.1	
$	34	Dibromofluoromethane	113	4.180	4.179	(0.889)	392381	48.6092	48.6	
	35	1,1,1-Trichloroethane	97	4.187	4.187	(0.890)	577167	48.0339	48.0	
	36	1,1-Dichloropropene	75	4.318	4.319	(0.824)	520965	49.5410	49.5	
	37	2-Butanone	43	4.314	4.315	(0.917)	109841	48.3101	48.3	
	38	Benzene	78	4.573	4.573	(0.873)	1557969	48.3934	48.4	
	39	Propionitrile	54	4.599	4.603	(0.978)	375657	480.216	480	
	40	Methacrylonitrile	41	4.625	4.626	(0.983)	1568979	489.582	490	
*	41	Pentafluorobenzene	168	4.704	4.704	(1.000)	795893	50.0000		
$	42	1,2-Dichloroethane-D4	65	4.715	4.712	(1.002)	415972	47.7197	47.7	
	43	Tertiary-amyl methyl ether	73	4.734	4.734	(1.006)	767541	49.7424	49.7	
	44	1,2-Dichloroethane	62	4.786	4.783	(0.914)	459141	46.7828	46.8	
	45	Isobutyl Alcohol	43	4.887	4.891	(1.039)	161609	933.803	934	
	46	Methylcyclohexane	83	5.171	5.172	(1.099)	698166	51.8258	51.8	
	47	Trichloroethene	95	5.186	5.187	(0.990)	405244	48.1511	48.2	
*	48	1,4-Difluorobenzene	114	5.239	5.243	(1.000)	1338275	50.0000		
	49	Dibromomethane	93	5.613	5.610	(1.071)	236616	48.1161	48.1	
	50	1,2-Dichloropropane	63	5.721	5.722	(1.092)	371404	48.1286	48.1	
	51	Bromodichloromethane	83	5.811	5.812	(1.109)	485586	48.7501	48.8	
	52	Methyl Methacrylate	41	6.025	6.025	(1.150)	228374	54.1732	54.2	
	53	1,4-Dioxane	88	6.028	6.029	(1.151)	70145	990.805	991	
	54	2-Chloroethylvinylether	63	6.455	6.455	(1.232)	127442	63.1878	63.2	
	55	cis-1,3-dichloropropene	75	6.481	6.485	(1.237)	621782	53.3613	53.4	
$	56	Toluene-D8	98	6.676	6.676	(1.274)	1532265	49.4938	49.5	
	57	Toluene	92	6.728	6.729	(1.284)	989859	48.3182	48.3	
	58	Tetrachloroethene	164	7.114	7.114	(0.863)	313508	48.8193	48.8	
	59	4-methyl-2-pentanone	43	7.151	7.148	(1.365)	223349	49.6422	49.6	
	60	trans-1,3-Dichloropropene	75	7.173	7.174	(1.369)	550721	55.1495	55.1	
	61	1,1,2-Trichloroethane	83	7.331	7.331	(1.399)	290337	47.6479	47.6	
	62	Ethyl Methacrylate	69	7.390	7.387	(1.411)	445811	46.4911	46.5	
	63	Dibromochloromethane	129	7.495	7.500	(0.909)	378714	49.4773	49.5	
	64	1,3-Dichloropropane	76	7.596	7.593	(0.921)	589701	47.1696	47.2	
	65	1,2-Dibromoethane	107	7.709	7.705	(1.471)	349043	48.8853	48.9	
	66	2-Hexanone	43	8.012	8.007	(0.972)	147433	50.1842	50.2	
*	67	Chlorobenzene-D5	117	8.244	8.244	(1.000)	1250971	50.0000		
	68	Chlorobenzene	112	8.259	8.259	(1.002)	1063450	48.3621	48.4	
	69	Ethylbenzene	91	8.315	8.314	(1.009)	1801728	50.2498	50.2	
	70	1,1,1,2-Tetrachloroethane	131	8.337	8.337	(1.011)	368916	48.6195	48.6	
	71	m+p-Xylenes	91	8.468	8.468	(1.027)	2723437	104.906	105	
	72	o-Xylene	91	8.891	8.892	(1.079)	1425455	54.0230	54.0	
	73	Bromoform	173	8.944	8.944	(1.085)	232645	54.2011	54.2	
	74	Styrene	104	8.947	8.948	(1.085)	1138545	52.6538	52.6	
	75	Isopropylbenzene	105	9.217	9.217	(0.870)	1663693	50.2735	50.3	
$	76	P-Bromofluorobenzene	95	9.475	9.475	(1.809)	576803	50.3943	50.4	
	77	Bromobenzene	156	9.561	9.562	(0.903)	447733	47.7449	47.7	
	78	cis-1,4-Dichloro-2-Butene	53	9.565	9.565	(0.903)	103498	50.3634	50.4	

Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\T2034.D
Report Date: 12-Oct-2023 12:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	79 N-Propylbenzene	91	9.636	9.636	(0.910)	2027568	50.2154	50.2	
	80 1,1,2,2-Tetrachloroethane	83	9.711	9.711	(0.917)	415599	45.6559	45.6	
	81 2-Chlorotoluene	91	9.763	9.764	(0.922)	1203635	49.2138	49.2	
	82 1,2,3-Trichloropropane	75	9.819	9.820	(0.927)	326228	45.1327	45.1	
	83 1,3,5-Trimethylbenzene	105	9.845	9.846	(0.929)	1431407	50.3253	50.3	
	84 trans-1,4-Dichloro-2-Butene	53	9.883	9.883	(0.933)	102431	51.8603	51.9	
	85 4-Chlorotoluene	91	9.931	9.932	(0.937)	1277216	50.2764	50.3	
	86 tert-Butylbenzene	119	10.152	10.153	(0.958)	1223499	51.7837	51.8	
	87 1,2,4-Trimethylbenzene	105	10.227	10.228	(0.965)	1484898	53.1938	53.2	
	88 sec-Butylbenzene	105	10.332	10.332	(0.975)	1814941	53.7983	53.8	
	89 P-Isopropyltoluene	119	10.493	10.490	(0.990)	1515253	53.7807	53.8	
	90 1,3-Dichlorobenzene	146	10.515	10.516	(0.993)	868198	49.8136	49.8	
*	91 1,4-Dichlorobenzene-D4	152	10.594	10.594	(1.000)	684682	50.0000		
	92 1,4-Dichlorobenzene	146	10.609	10.609	(1.001)	864009	46.8945	46.9	
	93 1,2,3-Trimethylbenzene	105	10.657	10.658	(1.006)	1517210	51.9764	52.0	
	94 N-Butylbenzene	91	10.912	10.912	(1.030)	1365908	52.0895	52.1	
	95 1,2-Dichlorobenzene	146	11.024	11.025	(1.041)	814829	49.6176	49.6	
	96 1,2-Dibromo-3-Chloropropane	157	11.848	11.848	(1.118)	67603	49.2659	49.3	
	97 1,3,5-Trichlorobenzene	180	11.885	11.885	(1.122)	562269	51.5976	51.6	
	98 Hexachlorobutadiene	225	12.544	12.544	(1.184)	196177	46.2983	46.3	
	99 1,2,4-Trichlorobenzene	180	12.547	12.548	(1.184)	510160	51.7303	51.7	
	100 Naphthalene	128	12.877	12.877	(1.215)	1139210	48.5727	48.6	
	101 1,2,3-Trichlorobenzene	180	13.067	13.068	(1.233)	449574	50.7113	50.7	
M	103 1,2-Dichloroethylene (total)	96				813539	95.8490	95.8	
M	104 Total Alkylbenzenes	100				10863474	365.187	365	
M	105 Xylenes (total)	91				4148892	158.929	159	


Data File: \\target_server\gg\chem\gcms-t.i\T092823.b\T2034.D
Date : 28-SEP-2023 09:20
Client ID:
Sample Info: WG343209-1,SQ5108
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-t.i
Operator: CR
Column diameter: 0.18
\\target_server\gg\chem\gcms-t.i\T092823.b\T2034.D
Y (x10^6)
Min
-Chloromethane (1.213)
-Vinyl Chloride (1.257)
-Bromomethane (1.456)
-Chloroethane (1.534)
-Trichlorofluoromethane (1.628)
-Diethyl Ether (1.841)
-1,1-Dichloroethene (1.998)+
-Iodomethane (2.077)
-Acrolein (2.227)
-Allyl Chloride (2.339)
-Methylene Chloride (2.425)+
-trans-1,2-Dichloroethene (2.564)+
-Methyl tert-butyl ether (2.668)
-Tertiary-butyl alcohol (2.769)
-Acetonitrile (2.878)
-Di-isopropyl ether (3.050)
-Chloroprene (3.136)+
-Acrylonitrile (3.200)
-Ethyl tertiary-butyl ethe (3.432)+
-cis-1,2-Dichloroethene (3.701)
-2,2-Dichloropropane (3.810)
-Cyclohexane (3.899)+
-Chloroform (3.997)
-Carbon Tetrachloride (4.117)+
-Bromochlorofluoromethane (4.184)+
-1,1-Dichloropropene (4.319)+
-Benzene (4.573)
-Propionitrile (4.625)+
-Pentafluorobenzene (4.712)+
-Isobutyl Alcohol (4.887)
-Methylcyclohexane (5.183)+
-1,4-Difluorobenzene (5.259)
-Dibromomethane (5.613)
-1,2-Dichloropropane (5.722)
-Bromodichloromethane (5.812)
-Methyl Methacrylate (6.025)+
-2-Chloroethylvinylether (6.482)+
-Toluene-D8 (6.676)
-Toluene (6.723)
-Tetrachloroethene (7.114)
-4-methyl-2-pentanone (7.174)+
-Ethyl Methacrylate (7.288)
-1,1,2-Trichloroethane (7.331)
-Dibromochloromethane (7.500)
-1,3-Dichloropropane (7.593)
-1,2-Dibromoethane (7.709)
-2-Hexanone (8.012)
-Chlorobenzene-D5 (8.252)+
-Ethylbenzene (8.319)+
m+p-Xylenes (8.469)
-o-Xylene (8.892)
-Bromoform (8.948)+
-Isopropylbenzene (9.217)
-P-Bromofluorobenzene (9.475)
-Bromobenzene (9.562)+
-N-Propylbenzene (9.636)
-1,1,2,2-Tetrachloroethane (9.715)
-2-Chlorotoluene (9.764)
-1,2,3-Trichloropropane (9.846)+
-4-Chlorotoluene (9.932)
-tert-Butylbenzene (10.153)
-1,2,4-Trimethylbenzene (10.228)
-sec-Butylbenzene (10.332)
-P-Isopropyltoluene (10.493)+
-1,2,3-Trimethylbenzene (10.658)
1,4-Dichlorobenzene-D4 (10.602)+
-N-Butylbenzene (10.912)
-1,2-Dichlorobenzene (11.025)
-1,2-Dibromo-3-Chloropropa (11.848)
1,3,5-Trichlorobenzene (11.885)
-Hexachlorobutadiene (12.548)+
-Naphthalene (12.877)
-1,2,3-Trichlorobenzene (13.068)

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES

VOLATILE TCLP EXTRACTION BENCH SHEET FOR SAMPLE SQ5108 - 1 A+B+C

Balance ID: S/N 5012 Vessel ID: A

Dry Weight Determination 100%_____ <0.5% ✓ %Wet Solids_____

_____Refer to non-volatile TCLP extraction sheet, page #_____ for _____-_____

Sample description: AQ Homogeneous ✓ Non-homogeneous_____

1)	Weight Container 1 + Residue	_____g	7)	Weight of Filter	_____g
2)	Weight Container 1 + Waste	_____g	8)	Wt of Filter and Wet Solid	_____g
3)	Weight of Waste ((2) - (1))	_____g	9)	Wt of Wet Solid Phase ((8) - (7))	_____g
4)	Weight of Container 2	_____g	10)	%Wet Solids (100*(9)/(3))	_____
5)	Weight of Container 2 and Filtrate	_____g	11)	Wt of Filter + Solid Phase Dry	_____g
6)	Wt(g)/Vol(mL) of Filtrate ((5) - (4))	___/___	12)	Wt of Solid Phase Dry ((11) - (7))	_____g
			13)	%Dry Solids (100*(12)/(3))	_____

Analyst CR Date 9/27/23

Extraction Fluid Preparation and pH Check

Refer to the Non-Volatile TCLP/SPLP Extraction Fluid Preparation and Use Logbook located in the Metals Preparation Laboratory for the Fluid #1 Preparation documentation.

Analyst CR Date 9/25/23 Extraction Fluid Batch # PBT1813

pH of Fluid Today 4.88 pH Criteria: 4.88 – 4.98 pH Meter ID: Orion 520A S/N 7442

Extract Use Filter Paper Lot #: 115016-3003-T

✓ <0.5% Solids (Filter adequate sample volume) 120 mL Filtered.

___ 100% Solids

___ g of Waste added to _____ mL of fluid (fluid volume = 20 times wt of solid sample)

___ Free Liquid present (See Equation A for amount of waste to filter)

(A) X = Desired weight of solid phase on filter * 100/ (%Wet Solid)

1)	Weight Container 1 + Waste		_____g
2)	Weight Container 1 + Residue		_____g
3)	Weight of Waste Charged to ZHE ((1) - (2), or weighed directly into vessel)		_____g
4)	Weight of Pre-extraction Collection Device		_____g
5)	Weight of Device and Filtrate		_____g
6)	Weight ((5) - (4))/Volume (mL) of Filtrate	6a_____/_____6b	
7)	_____g of Solid Phase was added to 8)_____mL of Fluid #1.		
	((3) - (6a))	(20 * (7a))	

Pressure before Tumbling_____ Pressure after Tumbling:_____Rotation at 30 ± 2 RPM Verified_____

Pressure at time of Filtering (AQ samples) 40

Time/Date Started Tumbling_____ Time/Date Stopped:_____Hours Extracted_____(18 ±2)

Room Temp Start:_____Room Temp. Min._____Room Temp. Max._____(23± 2°C)

Was pre-extracted filtrate recombined with extract _____YES ✓ NO

If "NO" enter volume of filtrate (6) ~100

Amount of Fluid (8) _____

Analyst CR Date Filtered: 9/27/23 Time Filtered: 10:15

KATAHDIN ANALYTICAL SERVICES

GCMS- T INSTRUMENT RUNLOG

DATE: 9-26-23

BFB Injection Time: 9:29

Method:Check one	Standards	Std IDs *	pH paper Lot #	621225	Criteria
8260 5mL O	BFB	V 2802	KI paper Lot #	—	K = Lab
8260 10mL O	IS / SS	V 2798	Vial Lot #	2795FL-PCW	D = DOD
8260 SL O	CAL	V 2803	MeOH Lot #	—	Q = QUAPP
8260 SIM O	EXTRAs	V 2804	Work Grouped	✓	
524 O	LCS	V 2800			
8260 25mL O					

SAMPLE NAME	DATA FILE	DF	ALS	METHOD	5030	5035	1311	Criteria	pH	TRC	Y/N	Initials	Comments
MB 343083-12	TB593	1	-1	VOA BF13	✓				NA	NA	Y	JJ	
LCSD 050 -4	T1990	1	1	T826(33)23							Y		
020 -3	91	1	2								Y		
010 -8	92	1	3								Y		
005 -2	93	1	4								Y		Chromatography
001 -1	94	1	5								Y		Chlorination
150 -6	95	1	6								Y		TPC
100 -5	96	1	7								Y		FB
075-7	97	1	8								Y		9-27-23
LCS/Ind -9	98	1	9								Y		Indole-3-Acetic Acid
LCSD	99	1	10								—		
WBLK	T2000	1	11								—		
MS 343083-11	01	1	12	✓	✓				✓	✓	—	✓	

9-27-23

* Refer to page 1 for standard preparation instructions.

KATAHDIN ANALYTICAL SERVICES

GCMS- T INSTRUMENT RUNLOG

DATE: 09-28-23

BFB Injection Time: 8:22

Method Check one	Standards	Std IDs *	pH paper Lot #	6210005	Criteria
8260 5mL O	BFB	V28802	KI paper Lot #	—	K = Lab
8260 10mL O	IS / SS	V27958	Vial Lot #	2795FL-PCW	D = DOD
8260 SL O	CAL	V28603	MeOH Lot #	—	Q = QUAPP
8260 SIM O	EXTRAs	V28801	Work Grouped	✓	
524 O	LCS	V28600			
8260 25mL O					

SAMPLE NAME	DATA FILE	DF	ALS	METHOD	5030	5035	1311	Criteria	pH	TRC	Y/N	Initials	Comments
LCS 320943-3	TB585	—	—	VOA8260	✓				NA	NA	Y	CR	
Std CCV -4	T2033	1	1	T8260(33)23							Y		
LCS -1	34	1	2								Y		
Blank	35	1	3								N		Target hits
Blank -2	36	1	4								Y		
SQ5183-1A	37	1	5					K	LA		Y		
SQ5147-2RA[B]	38	1	6					D			Y		
-3RA[B]	39	1	7								Y		
-4RA[B]	40	1	8								Y		
SQ5108-1DL	41	20	9				✓		NA		Y		2nd 38mL
SQ5183-2A	42	1	10					K	LA		Y		
-3A	43	1	11								Y		
-4A	44	1	12								Y		
-5A	45	1	13								Y		
-6A	46	1	14								Y		
-7A	47	1	15								Y		
-8A	48	1	16								Y		
-9A	49	1	17								Y		
-10A	50	1	18								Y		
-11A	51	1	19								Y		
-6 -10MS[B]	52	1	20								Y		
-7 -10MSD[C]	53	1	21								Y		
CCV -5	54	1	22						NA		Y		18:10 ✓
CCV	55	1	23								N		not needed
CCV	56	1	24								N		
Rinse	57	1	25								—		
													CR 9/28/23

* Refer to page 1 for standard preparation instructions.

TCLP SEMIVOLATILE DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **SDG:** SQ5108 **Matrix:** AQ

Client Sample ID	Lab Sample ID	Col. ID	2FBP	#	2FP	#	NBZ	#	PHL	#	TBP	#	TPH	#
DOW-AQWC-01	SQ5108-1		78.4		37.3		79.7		24.2		78.2		81.6	
Method Blank	WG343378-1		90.3		45.1		92.2		29.6		90.9		73.3	
Laboratory Control S	WG343378-2		87.0		42.1		88.9		28.5		95.3		98.4	
Laboratory Control S	WG343378-3		96.3		42.1		93.8		29.0		99.5		98.8	

Abbr.	Surrogate Compound	QC Limits
2FBP	2-Fluorobiphenyl	44-119
2FP	2-Fluorophenol	19-119
NBZ	Nitrobenzene-D5	44-120
PHL	Phenol-D6	10-90
TBP	2,4,6-Tribromophenol	43-140
TPH	Terphenyl-D14	50-134

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Method Blank Summary

Lab Name : Katahdin Analytical Services
SDG : SQ5108
Lab File ID : U1630.D
Lab Sample ID : WG343378-1
Instrument ID : GCMS-U
Date Extracted : 02-OCT-23
Matrix : AQ
Date Analyzed : 18-OCT-23
Extraction method : SW846 3510C
Time Analyzed : 16:52

This Method Blank applies to the following samples and QC samples:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG343378-2	U1631.D	10/18/23	17:24
Laboratory Control S	WG343378-3	U1632.D	10/18/23	17:56
DOW-AQWC-01	SQ5108-1	U1652.D	10/19/23	19:02

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Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
SDG : SQ5108
Lab File ID : UD935.D
Date Analyzed : 18-OCT-23
Instrument ID : GCMS-U
Time Analyzed : 09:54

m/e	Ion Abundance Criteria	% Relative Abundance		
51	10.0 - 80.0% of mass 198	23.8		
68	Less than 2.0% of mass 69	0.0	0.0	1
69	Less than 100.0% of mass 198	34.9		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	10.0 - 80.0% of mass 198	49.1		
197	Less than 2.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.7		
275	10.0 - 60.0% of mass 198	21.1		
365	1.0 - 100.0% of mass 198	2.1		
441	0.1 - 100.0% of mass 443	9.6	78.45	2
442	50.0 - 100.0% of mass 198	66.3		
443	15.0 - 24.0% of mass 442	12.3	18.52	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG344071-4	U1617.D	10/18/23	10:13
Initial Calibration	WG344071-3	U1618.D	10/18/23	10:44
Initial Calibration	WG344071-2	U1619.D	10/18/23	11:14
Initial Calibration	WG344071-5	U1620.D	10/18/23	11:45
Initial Calibration	WG344071-6	U1621.D	10/18/23	12:16
Initial Calibration	WG344071-7	U1622.D	10/18/23	12:47
Independent Source	WG344071-8	U1623.D	10/18/23	13:17
Method Blank	WG343378-1	U1630.D	10/18/23	16:52
Laboratory Control S	WG343378-2	U1631.D	10/18/23	17:24
Laboratory Control S	WG343378-3	U1632.D	10/18/23	17:56
Continuing Calibrati	WG344071-9	U1637.D	10/18/23	20:36

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
SDG : SQ5108
Lab File ID : UD936.D
Date Analyzed : 19-OCT-23
Instrument ID : GCMS-U
Time Analyzed : 13:31

m/e	Ion Abundance Criteria	% Relative Abundance		
51	10.0 - 80.0% of mass 198	23.1		
68	Less than 2.0% of mass 69	0.0	0.0	1
69	Less than 100.0% of mass 198	35.2		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	10.0 - 80.0% of mass 198	50.5		
197	Less than 2.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.4		
275	10.0 - 60.0% of mass 198	21.0		
365	1.0 - 100.0% of mass 198	1.9		
441	0.1 - 100.0% of mass 443	9.9	77.16	2
442	50.0 - 100.0% of mass 198	68.7		
443	15.0 - 24.0% of mass 442	12.8	18.68	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG344145-2	U1642.D	10/19/23	13:49
DOW-AQWC-01	SQ5108-1	U1652.D	10/19/23	19:02
Continuing Calibrati	WG344145-3	U1661.D	10/19/23	23:49

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
SDG: SQ5108
Lab ID : WG344071-4
Analytical Date: 10/18/23 10:13
Lab File ID : U1617.D
Instrument ID: GCMS-U

		1,4-DICHLOROBENZENE-D4			NAPHTHALENE-D8			ACENAPHTHENE-D10		
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	587378		6.54		1829962		8.24		1068907		10.60	
	Upper Limit	1174756		6.71		3659924		8.40		2137814		10.76	
	Lower Limit	293689		6.37		914981		8.07		534453.5		10.43	
Client Sample ID	Lab Sample ID												
Method Blank	WG343378-1	536327		6.53		1692461		8.23		1009667		10.59	
Laboratory Control S	WG343378-2	531356		6.53		1628100		8.24		979492		10.60	
Laboratory Control S	WG343378-3	533814		6.53		1678476		8.24		984209		10.59	
Continuing Calibrati	WG344071-9	554640		6.54		1719249		8.24		992282		10.60	
Continuing Calibrati	WG344145-2	513919		6.54		1613689		8.25		943240		10.60	
DOW-AQWC-01	SQ5108-1	511126		6.53		1616499		8.23		959962		10.59	
Continuing Calibrati	WG344145-3	530947		6.54		1654783		8.24		939540		10.60	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 10 seconds of internal standard RT
RT Lower Limit = - 10 seconds of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
SDG: SQ5108
Lab ID : WG344071-4
Analytical Date: 10/18/23 10:13
Lab File ID : U1617.D
Instrument ID: GCMS-U

		PHENANTHRENE-D10				CHRYSENE-D12			
		Area	#	RT	#	Area	#	RT	#
	Std .	1877669		12.60		1307100		16.25	
	Upper Limit	3755338		12.76		2614200		16.41	
	Lower Limit	938834.5		12.43		653550		16.08	
Client Sample ID	Lab Sample ID								
Method Blank	WG343378-1	1644237		12.58		1393063		16.24	
Laboratory Control S	WG343378-2	1734401		12.60		1083573		16.25	
Laboratory Control S	WG343378-3	1704690		12.59		1073473		16.25	
Continuing Calibrati	WG344071-9	1713604		12.60		913914		16.25	
Continuing Calibrati	WG344145-2	1644642		12.60		1028580		16.26	
DOW-AQWC-01	SQ5108-1	1592303		12.58		1000344		16.24	
Continuing Calibrati	WG344145-3	1651633		12.60		994163		16.25	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 10 seconds of internal standard RT
RT Lower Limit = - 10 seconds of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL, "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery or percent RPD (relative percent difference) was outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

And/or

J Used for Dual Column analytes when there is a greater than 40% difference for detected concentrations between the two GC/HPLC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

I Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration (ICAL).

D Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration Verification (ICV).

C Indicates that the flagged compound did not meet DoD criteria in the corresponding opening Calibration Verification (CV).

V Indicates that the flagged compound did not meet DoD criteria in the corresponding closing Calibration Verification (CV).

L/LL Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M/MM Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike (MS) and/or Matrix Spike Duplicate MSD) prepared and/or analyzed concurrently with the native sample.

H Indicates the flagged compound was detected on the primary column but was not detected on the confirmation column therefore the compound is not reported as a positive detection. (SW846 8330A/B only)

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5108
Lab ID: SQ5108-1
Client ID: DOW-AQWC-01
Matrix: AQ
Lab File ID: U1652.D

Sample Date: 21-SEP-23
Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: 3510C/1311
Lab Prep Batch: WG343378

Report Date: 16-NOV-23
Analysis Date: 19-OCT-23
Analyst: DT
Analysis Method: SW846 8270D
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pyridine	U	38	ug/L	1	10	50.	18.	38.
1,4-Dichlorobenzene	U	38	ug/L	1	10	50.	18.	38.
2-Methylphenol	U	55	ug/L	1	15	75.	28.	55.
3&4-Methylphenol	U	75	ug/L	1	20	100	38.	75.
Hexachloroethane	U	38	ug/L	1	10	50.	18.	38.
Nitrobenzene	U	38	ug/L	1	10	50.	18.	38.
Hexachlorobutadiene	U	38	ug/L	1	10	50.	18.	38.
2,4,6-Trichlorophenol	U	38	ug/L	1	10	50.	18.	38.
2,4,5-Trichlorophenol	U	100	ug/L	1	25	120	50.	100
2,4-Dinitrotoluene	U	38	ug/L	1	10	50.	18.	38.
Hexachlorobenzene	U	38	ug/L	1	10	50.	18.	38.
Pentachlorophenol	U	100	ug/L	1	25	120	50.	100
2-Fluorophenol		37.3	%					
Phenol-D6		24.2	%					
Nitrobenzene-D5		79.7	%					
2-Fluorobiphenyl		78.4	%					
2,4,6-Tribromophenol		78.2	%					
Terphenyl-D14		81.6	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1652.D
Report Date: 16-Nov-2023 15:12

Katahdin Analytical Services

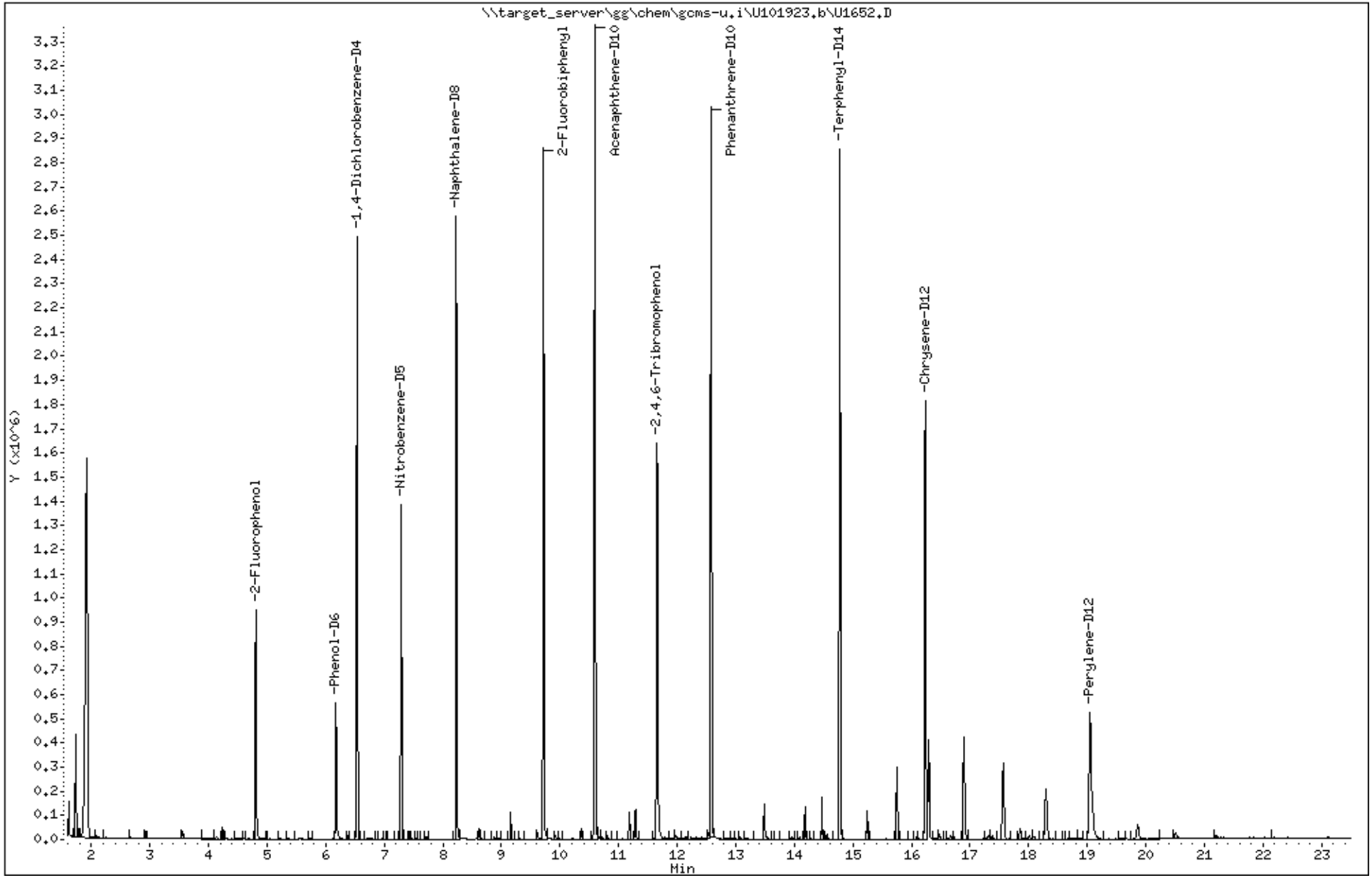
Data file : \\target_server\gg\chem\gcms-u.i\U101923.b\U1652.D
Lab Smp Id: SQ5108-1 Client Smp ID: DOW-AQWC-01
Inj Date : 19-OCT-2023 19:02
Operator : DT Inst ID: gcms-u.i
Smp Info : SQ5108-1
Misc Info : WG344145,WG343378,WG344071-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U101923.b\U8270C20.m
Meth Date : 20-Oct-2023 07:36 dtasker Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47 Cal File: U1622.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DoDTCLP50.sub
Target Version: 4.12
Processing Host: TECHN0VA-01

Concentration Formula: Amt * DF * Uf*(Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	0.20000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	4.803	4.822	(0.735)	523536	37.3383	187	
$ 12 Phenol-D6	99	6.169	6.188	(0.945)	341912	24.2266	121	
* 19 1,4-Dichlorobenzene-D4	152	6.532	6.550	(1.000)	511126	40.0000		
$ 33 Nitrobenzene-D5	82	7.287	7.326	(0.886)	488205	39.8398	199	
* 44 Naphthalene-D8	136	8.229	8.257	(1.000)	1616499	40.0000		
$ 63 2-Fluorobiphenyl	172	9.719	9.748	(0.918)	1100444	39.2181	196	
* 78 Acenaphthene-D10	164	10.589	10.607	(1.000)	959962	40.0000		
$ 100 2,4,6-Tribromophenol	330	11.665	11.694	(1.102)	292150	78.1836	391	
* 114 Phenanthrene-D10	188	12.576	12.615	(1.000)	1592303	40.0000		
$ 130 Terphenyl-D14	244	14.781	14.799	(0.910)	1159146	40.8017	204	
* 141 Chrysene-D12	240	16.240	16.268	(1.000)	1000344	40.0000		
* 151 Perylene-D12	264	19.045	19.053	(1.000)	446373	40.0000		

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1652.D
Date : 19-OCT-2023 19:02
Client ID: DOW-AQWC-01
Instrument: gcms-u.i
Sample Info: SQ5108-1
Volume Injected (uL): 1.0
Operator: DT
Column phase: Rxi-SVOCms
Column diameter: 0.25



Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5108

Instrument ID: GCMS-U **Column ID:**

Lab File IDs : U1619.D U1618.D U1617.D U1620.D U1621.D U1622.D **Calibration Date(s):** 18-OCT-23 10:13, 18-OCT-23 12:47

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	10.0000	25.0000	50.0000	75.0000	100.0000	125.0000	Type	b	m1	m2	Result	Limit	
Pyridine	1.14932	1.13348	1.10547	0.94526	0.93623	0.93827	AVG		1.03467		10.1273	15	O
1,4-Dichlorobenzene	230676	544739	979856	1379556	1611576	2036703	QUA	0.000e+00	0.64294	0.08532	0.99392	0.99	O
2-Methylphenol	1.15393	1.04965	1.07414	0.98032	0.97658	1.02049	AVG		1.04252		6.38644	15	O
3&4-Methylphenol	1.17014	1.04866	1.03063	0.92165	0.89536	0.94786	AVG		1.00238		10.1764	15	O
Hexachloroethane	88245	206251	386819	522259	619255	743476	QUA	0.000e+00	1.43128	0.88279	0.99736	0.99	O
Nitrobenzene	0.35094	0.31498	0.28965	0.25737	0.26832	0.26515	AVG		0.29107		12.3708	15	O
Hexachlorobutadiene	105115	251513	453284	637114	798863	946627	QUA	0.000e+00	4.08948	4.22957	0.99918	0.99	O
2,4,6-Trichlorophenol	0.43816	0.43376	0.40524	0.34923	0.33202	0.33079	AVG		0.38153		13.1398	15	O
2,4,5-Trichlorophenol	0.45231	0.45935	0.43816	0.38004	0.36624	0.36499	AVG		0.41018		10.8242	15	O
2,4-Dinitrotoluene	0.44813	0.44897	0.45984	0.37520	0.40130	0.38291	AVG		0.41939		8.88847	15	O
Hexachlorobenzene	108764	261527	503421	684721	898911	1127219	QUA	0.000e+00	4.33727	2.93373	0.99107	0.99	O
Pentachlorophenol	0.14124	0.16047	0.15963	0.13313	0.12659	0.12376	AVG		0.14080		11.4216	15	O
2-Fluorophenol	1.24615	1.17907	1.15826	1.02694	0.98284	0.99053	AVG		1.09730		10.1487	15	
Phenol-D6	1.27031	1.17177	1.12885	1.03103	0.99576	1.02910	AVG		1.10447		9.54043	15	
Nitrobenzene-D5	0.36029	0.32923	0.31338	0.27638	0.26828	0.27181	AVG		0.30323		12.3081	15	
2-Fluorobiphenyl	377048	862281	1556321	2123982	2644234	3083453	QUA	0.000e+00	0.62988	0.19663	0.99657	0.99	
2,4,6-Tribromophenol	0.16390	0.17052	0.16926	0.14693	0.14304	0.14056	AVG		0.15570		8.79250	15	
Terphenyl-D14	1.07942	1.03239	1.10191	1.08137	1.18895	1.33182	AVG		1.13598		9.58123	15	

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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P.O. Box 540, Scarborough, ME 04070
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Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1623.D
Report Date: 20-Oct-2023 13:38

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: 021497
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: WG344071-8
Level: LOW Operator: DT
Data Type: MS DATA SampleType: INDSOURCE
SpikeList File: INDcheck8270.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Misc Info: WG344071,WG344071,WG344071-4,SQ5205-1

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	1,4-Dioxane	50.0	48.2	96.44	80-120
3	Pyridine	50.0	52.9	105.81	80-120
2	N-Nitrosodimethyla	50.0	52.8	105.54	80-120
5	2-Picoline	50.0	49.7	99.35	80-120
6	N-Nitrosomethyleth	50.0	44.7	89.38	80-120
7	Methyl Methanesulf	50.0	45.7	91.38	80-120
9	N-Nitrosodiethylam	50.0	47.3	94.65	80-120
10	Ethyl Methanesulfo	50.0	44.9	89.81	80-120
11	Benzaldehyde	50.0	24.7	49.39*	80-120
13	Aniline	50.0	45.1	90.13	80-120
14	Phenol	50.0	53.0	105.97	80-120
16	Bis(2-Chloroethyl)	50.0	49.7	99.49	80-120
17	2-Chlorophenol	50.0	48.8	97.53	80-120
18	1,3-Dichlorobenzen	50.0	50.2	100.51	80-120
20	1,4-Dichlorobenzen	50.0	50.9	101.89	80-120
21	Benzyl alcohol	50.0	45.2	90.45	80-120
22	1,2-Dichlorobenzen	50.0	49.1	98.22	80-120
23	Bis(2-Chloroisopro	50.0	43.5	86.99	80-120
24	2,2'-Oxybis(1-chlo	50.0	37.7	75.47*	80-120
25	2-Methylphenol	50.0	45.6	91.26	80-120
26	Acetophenone	100	88.3	88.27	80-120
27	N-Nitrosopyrrolidi	50.0	42.5	85.03	80-120
28	N-Nitrosomorpholin	50.0	45.6	91.28	80-120
29	N-Nitroso-di-n-pro	50.0	45.1	90.30	80-120
30	3&4-Methylphenol	50.0	44.8	89.66	80-120
32	Hexachloroethane	50.0	48.9	97.80	80-120
31	o-Toluidine	50.0	42.7	85.46	80-120
34	Nitrobenzene	50.0	53.0	106.09	80-120
35	N-Nitrosopiperidin	50.0	44.8	89.60	80-120
36	Isophorone	50.0	41.8	83.71	80-120
37	2-Nitrophenol	50.0	50.1	100.19	80-120
38	2,4-Dimethylphenol	50.0	58.4	116.88	80-120
40	Bis(2-Chloroethoxy	50.0	53.1	106.20	80-120
39	O,O,O-Triethylphos	50.0	47.6	95.18	80-120
51	A,A-Dimethylphene	50.0	0.000	*	80-120
41	Benzoic acid	100	53.3	53.32*	80-120
42	2,4-Dichlorophenol	50.0	51.4	102.72	80-120
43	1,2,4-Trichloroben	50.0	49.9	99.77	80-120
45	Naphthalene	50.0	50.5	101.00	80-120
46	alpha-Terpineol	50.0	48.2	96.37	80-120

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1623.D
Report Date: 20-Oct-2023 13:38

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
48	2,6-Dichlorophenol	50.0	51.1	102.26	80-120
47	4-Chloroaniline	50.0	33.0	65.99*	80-120
49	Hexachloropropene	50.0	52.2	104.41	80-120
50	Hexachlorobutadien	50.0	51.3	102.58	80-120
52	N-Nitroso-Di-N-But	50.0	46.6	93.16	80-120
54	Caprolactam	50.0	51.0	101.97	80-120
53	p-Phenylenediamine	50.0	0.000	*	80-120
56	Isosafrole	50.0	43.6	87.20	80-120
55	4-Chloro-3-Methylp	50.0	47.1	94.14	80-120
57	2-Methylnaphthalen	50.0	50.4	100.80	80-120
58	1-Methylnaphthalen	50.0	47.4	94.92	80-120
59	1,2,4,5-Tetrachlor	100	98.6	98.65	80-120
60	Hexachlorocyclopen	50.0	58.5	117.08	80-120
61	2,4,6-Trichlorophe	50.0	50.8	101.59	80-120
62	2,4,5-Trichlorophe	50.0	49.9	99.73	80-120
64	Safrole	50.0	45.6	91.12	80-120
65	1,1'-Biphenyl	50.0	49.6	99.16	80-120
66	2-Chloronaphthalen	50.0	54.5	109.07	80-120
67	1-Chloronaphthalen	50.0	41.5	83.06	80-120
69	2-Nitroaniline	50.0	40.0	80.01	80-120
70	1,4-Naphthoquinone	50.0	77.1	154.13*	80-120
72	Dimethyl Phthalate	50.0	44.5	88.93	80-120
73	1,3-Dinitrobenzene	50.0	47.4	94.72	80-120
75	Acenaphthylene	50.0	45.1	90.13	80-120
74	2,6-Dinitrotoluene	50.0	53.7	107.46	80-120
77	3-Nitroaniline	50.0	43.4	86.83	80-120
79	Acenaphthene	50.0	48.8	97.61	80-120
80	2,4-Dinitrophenol	50.0	45.4	90.90	80-120
83	Dibenzofuran	50.0	47.3	94.68	80-120
81	Pentachlorobenzene	50.0	52.0	103.99	80-120
82	4-Nitrophenol	50.0	53.6	107.15	80-120
84	2,4-Dinitrotoluene	50.0	46.2	92.32	80-120
85	1-Naphthylamine	50.0	30.2	60.33*	80-120
88	2-Naphthylamine	50.0	31.0	61.99*	80-120
87	2,3,4,6-Tetrachlor	50.0	48.1	96.20	80-120
89	Diethylphthalate	50.0	48.4	96.86	80-120
92	Fluorene	50.0	48.6	97.29	80-120
93	4-Chlorophenyl-phe	50.0	48.6	97.11	80-120
90	O,O-diethyl-o-2-py	50.0	47.7	95.37	80-120
94	5-Nitro-O-Toluidin	50.0	47.4	94.76	80-120
95	4-Nitroaniline	50.0	41.6	83.13	80-120
97	N-Nitrosodiphenyla	100	93.8	93.80	80-120
96	4,6-Dinitro-2-Meth	50.0	48.7	97.45	80-120
98	1,2-Diphenylhydraz	50.0	45.5	91.03	80-120
101	Sulfotepp	50.0	46.8	93.50	80-120
103	Diallate	50.0	54.2	108.39	80-120
104	Phorate	50.0	35.0	70.06*	80-120
106	4-Bromophenyl-phen	50.0	47.8	95.69	80-120
105	Phenacetin	50.0	49.0	98.06	80-120
102	1,3,5-Trinitrobenz	50.0	49.8	99.71	80-120
107	Hexachlorobenzene	50.0	47.6	95.19	80-120
108	Dimethoate	50.0	55.1	110.16	80-120
109	Atrazine	50.0	9.35	18.70*	80-120
110	4-Aminobiphenyl	50.0	34.0	67.97*	80-120

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1623.D
Report Date: 20-Oct-2023 13:38

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
111 Pentachlorophenol	50.0	53.0	105.92	80-120
113 Pronamide	50.0	46.1	92.24	80-120
112 Pentachloronitrobe	50.0	47.3	94.56	80-120
116 Phenanthrene	50.0	52.4	104.90	80-120
115 Disulfoton	50.0	46.1	92.15	80-120
118 Anthracene	50.0	46.5	93.02	80-120
117 Dinoseb	50.0	54.0	108.07	80-120
119 Carbazole	50.0	44.3	88.57	80-120
120 Methyl Parathion	50.0	51.0	102.02	80-120
121 Di-n-butylphthalat	50.0	52.3	104.54	80-120
122 Ethyl Parathion	50.0	49.9	99.76	80-120
124 4-Nitroquinoline-1	50.0	49.2	98.39	80-120
125 Methapyrilene	50.0	40.8	81.67	80-120
126 Isodrin	50.0	42.9	85.72	80-120
127 Fluoranthene	50.0	47.5	94.94	80-120
129 Benzidine	50.0	19.5	39.07*	80-120
128 Pyrene	50.0	44.7	89.49	80-120
131 Aramite	50.0	52.0	103.93	80-120
132 p-Dimethylaminoazo	50.0	44.7	89.39	80-120
133 Chlorobenzilate	50.0	44.8	89.61	80-120
134 Famphur	50.0	0.000	0.00*	80-120
135 3,3'-Dimethylbenzi	50.0	39.3	78.62*	80-120
136 Butylbenzylphthala	50.0	46.3	92.65	80-120
137 Bis(2-ethylhexyl)a	50.0	42.4	84.87	80-120
138 2-Acetylaminofluor	50.0	47.6	95.12	80-120
140 Benzo(a)anthracene	50.0	47.8	95.64	80-120
139 3,3'-Dichlorobenzi	50.0	45.9	91.82	80-120
142 Chrysene	50.0	49.5	99.05	80-120
143 bis(2-Ethylhexyl)p	50.0	48.4	96.85	80-120
144 Kepone	50.0	0.000	0.00*	80-120
145 Di-n-octylphthalat	50.0	54.6	109.12	80-120
146 Benzo(b)fluoranthe	50.0	49.4	98.91	80-120
148 7,12-Dimethylbenz(	50.0	52.3	104.66	80-120
149 Benzo(k)fluoranthe	50.0	50.5	100.94	80-120
147 Hexachlorophene	50.0	0.000	*	80-120
150 Benzo(a)pyrene	50.0	46.1	92.24	80-120
152 3-Methylcholanthre	50.0	47.2	94.33	80-120
153 Dibenz(a,j)acridin	50.0	57.0	113.90	80-120
154 Indeno(1,2,3-cd)py	50.0	45.6	91.31	80-120
155 Dibenzo(a,h)anthra	50.0	46.0	91.94	80-120
156 Benzo(g,h,i)peryle	50.0	47.0	93.98	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 8 2-Fluorophenol	100	0.000	*	10-80
$ 12 Phenol-D6	100	0.000	*	10-90
$ 33 Nitrobenzene-D5	50.0	0.000	*	41-91
$ 63 2-Fluorobiphenyl	50.0	0.000	*	43-90
$ 100 2,4,6-Tribromophe	100	0.000	*	37-112
$ 130 Terphenyl-D14	50.0	0.000	*	36-156

ICAL Workgroup WG344071

Parameter	Curve Type	r^2	r^2 Limit	RSE	RSE limit
Benzaldehyde	QUA	0.99861	.99	9.469	20/30
1,3-Dichlorobenzene	QUA	0.99741	.99	4.705	20/30
1,4-Dichlorobenzene	QUA	0.99392	.99	7.262	20/30
1,2-Dichlorobenzene	QUA	0.99807	.99	3.915	20/30
N-Nitrosopyrrolidine	QUA	0.99859	.99	13.09	20/30
N-Nitroso-di-n-propylamine	QUA	0.99974	.99	1.779	20/30
Hexachloroethane	QUA	0.99736	.99	5.431	20/30
Benzoic acid	QUA	0.99059	.99	33.79**	20/30
2,4-Dichlorophenol	QUA	0.99132	.99	24.78*	20/30
1,2,4-Trichlorobenzene	QUA	0.99538	.99	10.16	20/30
Naphthalene	QUA	0.99613	.99	6.524	20/30
4-Chloroaniline	QUA	0.99592	.99	7.38	20/30
2,6-Dichlorophenol	QUA	0.99132	.99	24.78*	20/30
Hexachloropropene	QUA	0.99782	.99	8.43	20/30
Hexachlorobutadiene	QUA	0.99918	.99	4.333	20/30
N-Nitroso-Di-N-Butylamine	QUA	0.99661	.99	20.38*	20/30
4-Chloro-3-Methylphenol	QUA	0.99884	.99	8.616	20/30
2-Methylnaphthalene	QUA	0.99219	.99	15.16	20/30
1-Methylnaphthalene	QUA	0.99467	.99	7.006	20/30
1,2,4,5-Tetrachlorobenzene	QUA	0.99211	.99	11.24	20/30
Hexachlorocyclopentadiene	QUA	0.99020	.99	9.268	20/30
2-Fluorobiphenyl	QUA	0.99657	.99	0	20/30
Diphenylether	QUA	0.99557	.99	6.337	20/30
Acenaphthylene	QUA	0.99143	.99	9.108	20/30
Acenaphthene	QUA	0.99038	.99	11.13	20/30
4-Nitrophenol	QUA	0.99448	.99	25.22*	20/30
Dibenzofuran	QUA	0.99152	.99	9.445	20/30
2-Naphthylamine	QUA	0.99128	.99	9.125	20/30
N-Nitrosodiphenylamine	QUA	0.99618	.99	7.256	20/30
1,2-Diphenylhydrazine	QUA	0.99036	.99	11.46	20/30
Azobenzene	QUA	0.99036	.99	11.46	20/30
Sulfotepp	QUA	0.99504	.99	8.541	20/30
Diallate	QUA	0.99628	.99	6.634	20/30

ICAL Workgroup

Parameter	Curve Type	r^2	r^2 Limit	RSE	RSE limit
2-Acetylaminofluorene	QUA	0.99239	.99	12.6	20/30
3,3'-Dichlorobenzidine	QUA	0.99311	.99	9.247	20/30
Di-n-octylphthalate	QUA	0.99052	.99	28.94*	20/30
Dibenz(a,j)acridine	QUA	0.99793	.99	13.71	20/30
Indeno(1,2,3-cd)pyrene	QUA	0.99809	.99	12.34	20/30
Dibenzo(a,h)anthracene	QUA	0.99819	.99	11.49	20/30
Benzo(g,h,i)perylene	QUA	0.99734	.99	17.74	20/30

* = RSE over 20%
** = RSE over 30%

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1617.D
Report Date: 16-Nov-2023 15:11

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1617.D
Lab Smp Id: WG344071-4
Inj Date : 18-OCT-2023 10:13
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344071-4
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 16-Nov-2023 15:09 gcms-u.i   Quant Type: ISTD
Cal Date : 18-OCT-2023 10:13   Cal File: U1617.D
Als bottle: 2   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M))*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.141	2.182	(0.260)	160331	50.0000	52.4(a)	
	2 N-Nitrosodimethylamine	42	2.545	2.617	(0.389)	250642	50.0000	52.5(a)	
	3 Pyridine	79	2.566	2.627	(0.392)	811659	50.0000	53.4(a)	
	4 Ethyl Methacrylate	69	3.321	3.362	(0.508)	612908	50.0000	51.6(a)	
	5 2-Picoline	93	3.808	3.828	(0.582)	949865	50.0000	51.3(a)	
	6 N-Nitrosomethylethylamine	88	4.035	4.066	(0.617)	361953	50.0000	51.6(a)	
	7 Methyl Methanesulfonate	80	4.532	4.573	(0.693)	430732	50.0000	49.3(a)	
$	8 2-Fluorophenol	112	4.801	4.821	(0.734)	850417	50.0000	52.8(a)	
	9 N-Nitrosodiethylamine	102	5.091	5.121	(0.778)	414807	50.0000	52.0(a)	
	10 Ethyl Methanesulfonate	79	5.567	5.597	(0.851)	572176	50.0000	51.2(a)	
	11 Benzaldehyde	77	5.950	5.949	(0.910)	144442	50.0000	52.1(a)	
$	12 Phenol-D6	99	6.167	6.187	(0.943)	828825	50.0000	51.1(a)	
	13 Aniline	93	6.116	6.136	(0.935)	1081321	50.0000	51.4(a)	
	14 Phenol	94	6.178	6.208	(0.945)	883400	50.0000	49.2(a)	
	15 Pentachloroethane	117	6.147	6.156	(0.940)	339437	50.0000	51.8(a)	
	16 Bis(2-Chloroethyl)ether	93	6.240	6.260	(0.954)	690593	50.0000	50.8(a)	
	17 2-Chlorophenol	128	6.271	6.291	(0.959)	913890	50.0000	52.2(a)	
	18 1,3-Dichlorobenzene	146	6.457	6.467	(0.987)	1032327	50.0000	52.7(a)	
*	19 1,4-Dichlorobenzene-D4	152	6.540	6.550	(1.000)	587378	40.0000		
	20 1,4-Dichlorobenzene	146	6.561	6.570	(1.003)	979856	50.0000	52.4(a)	
	21 Benzyl alcohol	108	6.788	6.819	(1.038)	571256	50.0000	52.2(a)	
	22 1,2-Dichlorobenzene	146	6.757	6.767	(1.033)	990586	50.0000	52.2(a)	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	23 Bis(2-Chloroisopropyl)ether	45	6.954	6.974	(1.063)	650055	50.0000	52.4(a)	
	24 2,2'-Oxybis(1-chloropropane)	45	6.954	6.974	(1.063)	650055	50.0000	52.4(a)	
	25 2-Methylphenol	108	7.006	7.046	(1.071)	788658	50.0000	51.5(a)	
	26 Acetophenone	105	7.120	7.140	(0.864)	1084902	50.0000	50.9(a)	
	27 N-Nitrosopyrrolidine	100	7.109	7.191	(1.087)	395943	50.0000	52.0(a)	
	28 N-Nitrosomorpholine	56	7.171	7.222	(1.097)	272446	50.0000	52.0(a)	
	29 N-Nitroso-di-n-propylamine	70	7.161	7.202	(1.095)	424104	50.0000	50.7(a)	
	30 3&4-Methylphenol	108	7.202	7.243	(1.101)	756710	50.0000	51.4(a)	
	31 o-Toluidine	106	7.161	7.181	(1.095)	1088205	50.0000	50.8(a)	
	32 Hexachloroethane	117	7.202	7.212	(1.101)	386819	50.0000	53.0(a)	
$	33 Nitrobenzene-D5	82	7.306	7.326	(0.887)	716845	50.0000	51.7	
	34 Nitrobenzene	77	7.327	7.357	(0.889)	662555	50.0000	49.8(a)	
	35 N-Nitrosopiperidine	114	7.544	7.574	(0.916)	463556	50.0000	53.6(a)	
	36 Isophorone	82	7.679	7.698	(0.932)	1307340	50.0000	51.3(a)	
	37 2-Nitrophenol	139	7.751	7.771	(0.941)	531631	50.0000	50.8(a)	
	38 2,4-Dimethylphenol	107	7.886	7.916	(0.957)	592891	50.0000	49.8(a)	
	39 O,O,O-Triethylphosphorothioat	198	7.979	7.999	(0.969)	427235	50.0000	50.7(a)	
	40 Bis(2-Chloroethoxy)methane	93	7.999	8.019	(0.971)	1048170	50.0000	55.4(a)	
	41 Benzoic acid	105	8.134	8.237	(0.987)	409361	50.0000	48.8(aQ)	
	42 2,4-Dichlorophenol	162	8.393	8.423	(1.019)	656793	50.0000	53.2(a)	
	43 1,2,4-Trichlorobenzene	180	8.175	8.195	(0.992)	804935	50.0000	52.4(a)	
*	44 Naphthalene-D8	136	8.237	8.257	(1.000)	1829962	40.0000		
	45 Naphthalene	128	8.268	8.288	(1.004)	2060785	50.0000	51.5(a)	
	46 alpha-Terpineol	59	8.341	8.371	(1.013)	414562	50.0000	50.8(a)	
	47 4-Chloroaniline	127	8.393	8.413	(1.019)	915057	50.0000	52.9(a)	
	48 2,6-Dichlorophenol	162	8.393	8.423	(1.019)	656793	50.0000	53.2(a)	
	49 Hexachloropropene	213	8.393	8.402	(1.019)	532667	50.0000	51.8(a)	
	50 Hexachlorobutadiene	225	8.465	8.475	(1.028)	453284	50.0000	50.9(a)	
	51 A,A-Dimethylphenethylamine	58	8.444	8.528	(1.025)	54091	50.0000	15.6(aQ)	
	52 N-Nitroso-Di-N-Butylamine	84	8.879	8.909	(1.078)	474732	50.0000	50.4(a)	
	53 p-Phenylenediamine	108	8.889	8.930	(1.079)	596442	50.0000	60.6(a)	
	54 Caprolactam	113	8.952	9.023	(1.087)	235904	50.0000	51.3(a)	
	55 4-Chloro-3-Methylphenol	107	9.107	9.147	(1.106)	631018	50.0000	51.6(a)	
	56 Isosafrole	162	9.128	9.147	(1.108)	664672	50.0000	49.1(a)	
	57 2-Methylnaphthalene	142	9.210	9.220	(1.118)	1496170	50.0000	51.7(a)	
	58 1-Methylnaphthalene	142	9.335	9.354	(1.133)	1416972	50.0000	51.4(a)	
	59 1,2,4,5-Tetrachlorobenzene	216	9.438	9.448	(0.891)	727577	50.0000	53.7(a)	
	60 Hexachlorocyclopentadiene	237	9.428	9.437	(0.890)	391075	50.0000	56.1(a)	
	61 2,4,6-Trichlorophenol	196	9.624	9.644	(0.908)	541451	50.0000	53.1(a)	
	62 2,4,5-Trichlorophenol	196	9.686	9.717	(0.914)	585435	50.0000	53.4(a)	
$	63 2-Fluorobiphenyl	172	9.728	9.748	(0.918)	1556321	50.0000	53.4	
	64 Safrole	104	9.831	9.851	(0.928)	272447	50.0000	53.7(aQ)	
	65 1,1'-Biphenyl	154	9.852	9.882	(0.930)	1551828	50.0000	53.6(a)	
	66 2-Chloronaphthalene	127	9.862	9.882	(0.931)	671427	50.0000	50.0(a)	
	67 1-Chloronaphthalene	127	9.883	9.903	(0.933)	508286	50.0000	50.7(a)	
	68 Diphenylether	170	10.007	10.017	(0.944)	1105826	50.0000	54.3(a)	
	69 2-Nitroaniline	65	10.028	10.048	(0.946)	374459	50.0000	51.8(a)	
	70 1,4-Naphthoquinone	158	10.111	10.120	(0.954)	335592	50.0000	46.6(a)	
	71 1,4-Dinitrobenzene	168	10.235	10.265	(0.966)	303044	50.0000	54.4(a)	
	72 Dimethyl Phthalate	163	10.328	10.358	(0.975)	1627928	50.0000	50.8(a)	
	73 1,3-Dinitrobenzene	168	10.339	10.379	(0.976)	311292	50.0000	53.8(a)	
	74 2,6-Dinitrotoluene	165	10.380	10.410	(0.979)	426902	50.0000	54.6(a)	
	75 Acenaphthylene	152	10.401	10.421	(0.981)	2225654	50.0000	54.1(a)	
	76 1,2-Dinitrobenzene	168	10.442	10.483	(0.985)	191523	50.0000	50.6(a)	

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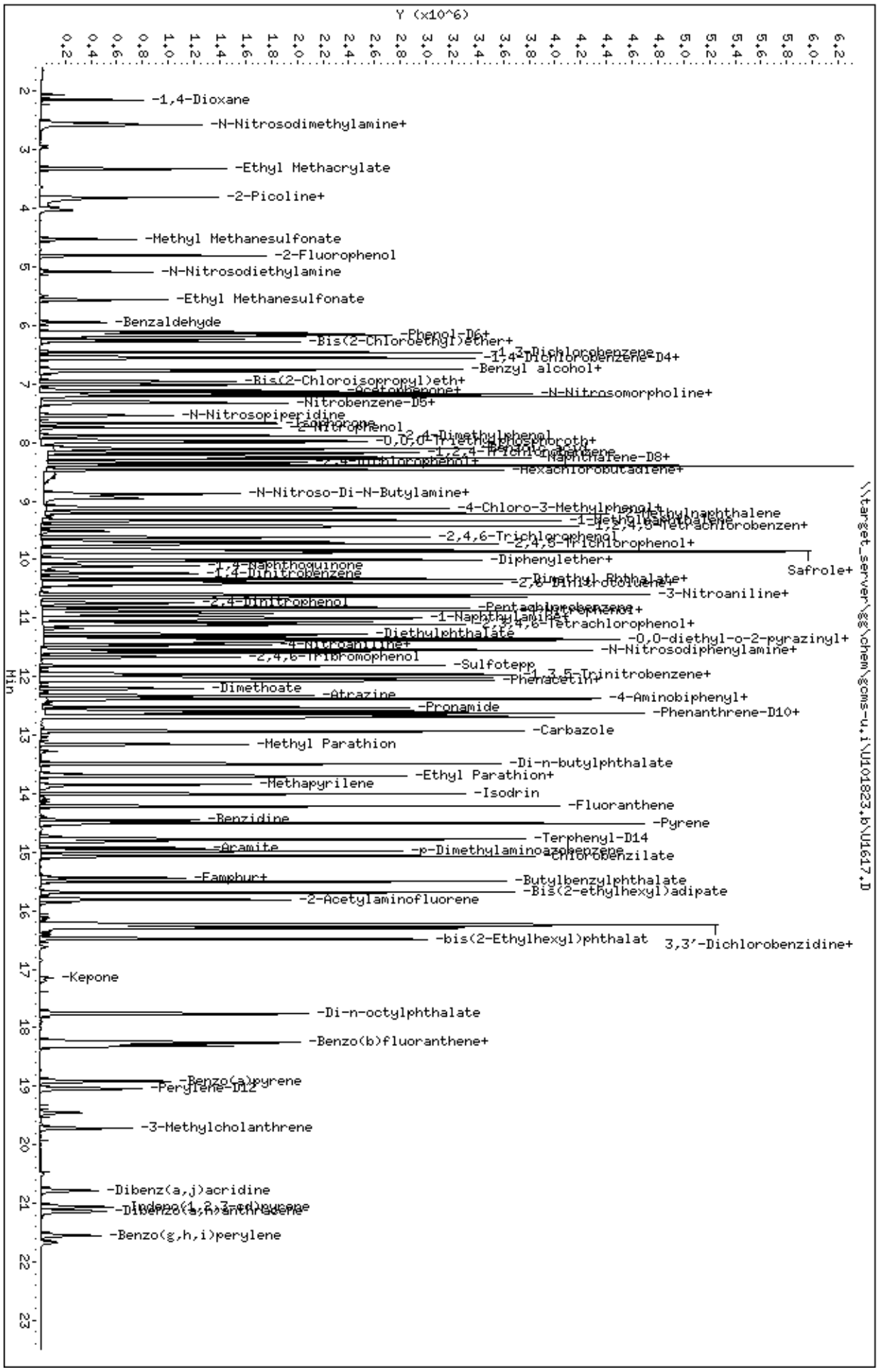
							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)	REVIEW CODE
	77 3-Nitroaniline	138	10.597	10.648	(1.000)	457383	50.0000	50.6(a)	
*	78 Acenaphthene-D10	164	10.597	10.607	(1.000)	1068907	40.0000		
	79 Acenaphthene	153	10.649	10.659	(1.005)	1364943	50.0000	55.6(a)	
	80 2,4-Dinitrophenol	184	10.742	10.793	(1.014)	309294	50.0000	55.0(a)	
	81 Pentachlorobenzene	250	10.825	10.845	(1.021)	641941	50.0000	52.5(a)	
	82 4-Nitrophenol	109	10.928	10.979	(1.031)	201811	50.0000	55.2(aQ)	
	83 Dibenzofuran	168	10.877	10.897	(1.026)	1983206	50.0000	54.8(a)	
	84 2,4-Dinitrotoluene	165	10.918	10.969	(1.030)	614413	50.0000	54.8(a)	
	85 1-Naphthylamine	143	11.001	11.021	(1.038)	1611632	50.0000	54.9(a)	
	86 2,3,5,6-Tetrachlorophenol	232	11.022	11.052	(1.040)	454291	50.0000	54.9(a)	
	87 2,3,4,6-Tetrachlorophenol	232	11.073	11.104	(1.045)	455995	50.0000	55.1(a)	
	88 2-Naphthylamine	143	11.115	11.145	(1.049)	1468347	50.0000	56.0(a)	
	89 Diethylphthalate	149	11.280	11.311	(1.064)	1751773	50.0000	53.9(a)	
	90 O,O-diethyl-o-2-pyrazinylphos	107	11.384	11.424	(1.074)	301516	50.0000	53.9(a)	
	91 Thionazin	107	11.384	11.424	(1.074)	301516	50.0000	53.9(a)	
	92 Fluorene	166	11.342	11.362	(1.070)	1669788	50.0000	54.6(a)	
	93 4-Chlorophenyl-phenylether	204	11.374	11.393	(1.073)	812595	50.0000	53.5(a)	
	94 5-Nitro-O-Toluidine	152	11.405	11.456	(1.076)	589040	50.0000	54.2(a)	
	95 4-Nitroaniline	138	11.436	11.507	(1.079)	478475	50.0000	51.3(a)	
	96 4,6-Dinitro-2-Methylphenol	198	11.467	11.518	(0.910)	354723	50.0000	53.3(a)	
	97 N-Nitrosodiphenylamine	169	11.549	11.580	(0.917)	1431947	50.0000	54.2(a)	
	98 1,2-Diphenylhydrazine	77	11.581	11.600	(0.919)	1325484	50.0000	52.6(a)	
	99 Azobenzene	77	11.581	11.600	(0.919)	1325484	50.0000	52.6(a)	
$	100 2,4,6-Tribromophenol	330	11.674	11.694	(1.102)	226148	50.0000	54.4	
	101 Sulfotepp	97	11.819	11.839	(0.938)	268732	50.0000	53.4(a)	
	102 1,3,5-Trinitrobenzene	213	11.995	12.066	(0.952)	203620	50.0000	57.1(aQ)	
	103 Diallate	86	11.953	11.973	(0.949)	408556	50.0000	53.1(a)	
	104 Phorate	75	11.963	11.983	(0.950)	971971	50.0000	54.2(a)	
	105 Phenacetin	108	12.057	12.118	(0.957)	849993	50.0000	57.5(a)	
	106 4-Bromophenyl-phenylether	248	12.026	12.046	(0.955)	472900	50.0000	52.7(a)	
	107 Hexachlorobenzene	284	12.067	12.097	(0.958)	503421	50.0000	54.9(a)	
	108 Dimethoate	87	12.212	12.253	(0.970)	432733	50.0000	54.3(a)	
	109 Atrazine	200	12.326	12.356	(0.979)	346134	50.0000	54.7(a)	
	110 4-Aminobiphenyl	169	12.388	12.418	(0.984)	1473762	50.0000	53.6(a)	
	111 Pentachlorophenol	266	12.377	12.397	(0.983)	374676	50.0000	56.7(a)	
	112 Pentachloronitrobenzene	237	12.367	12.387	(0.982)	222943	50.0000	52.1(a)	
	113 Pronamide	173	12.522	12.563	(0.994)	859876	50.0000	56.1(a)	
*	114 Phenanthrene-D10	188	12.595	12.615	(1.000)	1877669	40.0000		
	115 Disulfoton	88	12.667	12.698	(1.006)	842177	50.0000	55.4(a)	
	116 Phenanthrene	178	12.626	12.656	(1.002)	2048877	50.0000	52.9(a)	
	117 Dinoseb	211	12.657	12.687	(1.005)	476366	50.0000	54.7(a)	
	118 Anthracene	178	12.698	12.729	(1.008)	2208931	50.0000	53.8(a)	
	119 Carbazole	167	12.936	12.967	(1.027)	2237928	50.0000	53.3(a)	
	120 Methyl Parathion	109	13.154	13.174	(1.044)	417604	50.0000	54.4(a)	
	121 Di-n-butylphthalate	149	13.495	13.515	(1.071)	2757621	50.0000	55.2(a)	
	122 Ethyl Parathion	291	13.702	13.733	(1.088)	177604	50.0000	54.4(a)	
	123 Parathion	291	13.702	13.733	(1.088)	177604	50.0000	54.4(a)	
	124 4-Nitroquinoline-1-Oxide	190	13.692	13.712	(1.087)	219707	50.0000	60.0(a)	
	125 Methapyrilene	97	13.847	13.877	(1.099)	601775	50.0000	55.8(a)	
	126 Isodrin	193	14.002	14.012	(1.112)	320686	50.0000	52.5(a)	
	127 Fluoranthene	202	14.220	14.240	(1.129)	2408938	50.0000	54.0(a)	
	128 Pyrene	202	14.510	14.530	(0.893)	2357157	50.0000	46.6(a)	
	129 Benzidine	184	14.448	14.467	(0.889)	845394	50.0000	61.3(a)	
$	130 Terphenyl-D14	244	14.779	14.799	(0.910)	1800390	50.0000	48.5	

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Report Date: 16-Nov-2023 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
131	Aramite	185	14.924	14.933	(0.918)	180644	50.0000	52.6(a)	
132	p-Dimethylaminoazobenzene	225	14.986	15.006	(0.922)	555804	50.0000	49.2(a)	
133	Chlorobenzilate	251	15.069	15.088	(0.927)	797567	50.0000	48.7(a)	
134	Famphur	218	15.389	15.399	(0.947)	13719	50.0000	(a)	
135	3,3'-Dimethylbenzidine	212	15.441	15.451	(0.950)	559294	50.0000	58.7(a)	
136	Butylbenzylphthalate	149	15.503	15.513	(0.954)	1419298	50.0000	52.0(a)	
137	Bis(2-ethylhexyl)adipate	129	15.690	15.709	(0.966)	1198756	50.0000	49.2(a)	
138	2-Acetylaminofluorene	181	15.814	15.834	(0.973)	695375	50.0000	49.4(a)	
139	3,3'-Dichlorobenzidine	252	16.248	16.258	(1.000)	573998	50.0000	53.9(a)	
140	Benzo(a)anthracene	228	16.228	16.248	(0.999)	2118520	50.0000	52.3(a)	
* 141	Chrysene-D12	240	16.248	16.268	(1.000)	1307100	40.0000		
142	Chrysene	228	16.300	16.310	(1.003)	1956652	50.0000	52.7(a)	
143	bis(2-Ethylhexyl)phthalate	149	16.486	16.496	(1.015)	1933666	50.0000	52.9(a)	
144	Kepone	272	17.149	17.158	(1.055)	2133	50.0000	(aQ)	
145	Di-n-octylphthalate	149	17.760	17.769	(0.933)	2573477	50.0000	66.2(a)	
146	Benzo(b)fluoranthene	252	18.246	18.256	(0.958)	1112957	50.0000	56.6(a)	
148	7,12-Dimethylbenz(A)Anthracen	256	18.267	18.276	(0.959)	599525	50.0000	59.6(a)	
149	Benzo(k)fluoranthene	252	18.308	18.328	(0.961)	1093305	50.0000	57.5(aH)	
150	Benzo(a)pyrene	252	18.919	18.928	(0.993)	815084	50.0000	53.7(a)	
* 151	Perylene-D12	264	19.043	19.053	(1.000)	534538	40.0000		
152	3-Methylcholanthrene	268	19.726	19.736	(1.036)	334076	50.0000	48.9(a)	
153	Dibenz(a,j)acridine	279	20.782	20.802	(1.091)	362352	50.0000	49.4(a)	
154	Indeno(1,2,3-cd)pyrene	276	21.061	21.081	(1.106)	412398	50.0000	49.5(a)	
155	Dibenzo(a,h)anthracene	278	21.144	21.164	(1.110)	414776	50.0000	50.1(a)	
156	Benzo(g,h,i)perylene	276	21.558	21.578	(1.132)	406901	50.0000	49.3(a)	
M 157	Total PAHs	100				27588808	850.000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1617.D
Date : 18-OCT-2023 10:13
Client ID:
Sample Info: WG344071-4
Column phase: Rxi-5WOCms
Instrument: gcms-u.i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u.i\U101823.b\U1617.D
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Phenol-D6+
-Bis(2-Chloroethyl)ether+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-Bis(2-Chloroisopropyl)eth+
-N-Nitrosomorpholine+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-Hexachloroethane+
-Naphthalene-D8+
-Hexachlorobutadiene+
-N-Nitroso-Di-N-Butylamine+
-4-Chloro-3-Methylphenol+
-2,4,6-Trichlorophenol
-Diphenylether+
Safrole+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-3-Nitroaniline+
-2,4-Dinitrophenol
-1-Naphthylamine+
-Diethylphthalate
-4-Nitroaniline+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-Sulfotepp
-Phenacetin+
-1,3,5-Trinitrobenzene+
-Dimethoate
-Atrazine
-4-Aminobiphenyl+
-Pronamide
-Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Famphur+
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-bis(2-Ethylhexyl)phthalat
3,3'-Dichlorobenzidine+
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene
-Dibenz(a,h)anthracene
-Benzo(g,h,i)perylene

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1618.D
Report Date: 16-Nov-2023 15:11

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1618.D
Lab Smp Id: WG344071-3
Inj Date : 18-OCT-2023 10:44
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344071-3
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 16-Nov-2023 15:09 gcms-u.i   Quant Type: ISTD
Cal Date : 18-OCT-2023 10:44   Cal File: U1618.D
Als bottle: 3   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M))*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.131	2.182	(0.259)	82604	25.0000	27.6(a)	
	2 N-Nitrosodimethylamine	42	2.524	2.617	(0.386)	126399	25.0000	26.2(a)	
	3 Pyridine	79	2.565	2.627	(0.392)	420689	25.0000	27.4(a)	
	4 Ethyl Methacrylate	69	3.310	3.362	(0.506)	324918	25.0000	27.1(a)	
	5 2-Picoline	93	3.807	3.828	(0.582)	497765	25.0000	26.6(a)	
	6 N-Nitrosomethylethylamine	88	4.025	4.066	(0.615)	181982	25.0000	25.7(a)	
	7 Methyl Methanesulfonate	80	4.521	4.573	(0.691)	238400	25.0000	27.0(a)	
$	8 2-Fluorophenol	112	4.801	4.821	(0.734)	437607	25.0000	26.9(a)	
	9 N-Nitrosodiethylamine	102	5.080	5.121	(0.777)	210167	25.0000	26.1(a)	
	10 Ethyl Methanesulfonate	79	5.556	5.597	(0.850)	302381	25.0000	26.8(a)	
	11 Benzaldehyde	77	5.939	5.949	(0.908)	81845	25.0000	23.1(a)	
$	12 Phenol-D6	99	6.157	6.187	(0.941)	434899	25.0000	26.5(a)	
	13 Aniline	93	6.105	6.136	(0.934)	580656	25.0000	27.3(a)	
	14 Phenol	94	6.177	6.208	(0.945)	470581	25.0000	25.9(a)	
	15 Pentachloroethane	117	6.146	6.156	(0.940)	177956	25.0000	26.9(a)	
	16 Bis(2-Chloroethyl)ether	93	6.229	6.260	(0.953)	367564	25.0000	26.8(a)	
	17 2-Chlorophenol	128	6.271	6.291	(0.959)	482537	25.0000	27.3(a)	
	18 1,3-Dichlorobenzene	146	6.447	6.467	(0.986)	569073	25.0000	25.8(a)	
*	19 1,4-Dichlorobenzene-D4	152	6.540	6.550	(1.000)	593835	40.0000		
	20 1,4-Dichlorobenzene	146	6.560	6.570	(1.003)	544739	25.0000	26.5(a)	
	21 Benzyl alcohol	108	6.778	6.819	(1.036)	287126	25.0000	26.0(a)	
	22 1,2-Dichlorobenzene	146	6.747	6.767	(1.032)	551318	25.0000	25.3(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1618.D
Report Date: 16-Nov-2023 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	23 Bis(2-Chloroisopropyl)ether	45	6.954	6.974	(1.063)	345985	25.0000	27.6(a)	
	24 2,2'-Oxybis(1-chloropropane)	45	6.954	6.974	(1.063)	345985	25.0000	27.6(a)	
	25 2-Methylphenol	108	6.985	7.046	(1.068)	389576	25.0000	25.2(a)	
	26 Acetophenone	105	7.109	7.140	(0.863)	575198	25.0000	27.6(a)	
	27 N-Nitrosopyrrolidine	100	7.088	7.191	(1.084)	209417	25.0000	22.5(a)	
	28 N-Nitrosomorpholine	56	7.150	7.222	(1.093)	142358	25.0000	26.8(a)	
	29 N-Nitroso-di-n-propylamine	70	7.150	7.202	(1.093)	241991	25.0000	25.5(a)	
	30 3&4-Methylphenol	108	7.192	7.243	(1.100)	389208	25.0000	26.2(a)	
	31 o-Toluidine	106	7.150	7.181	(1.093)	579527	25.0000	26.8(a)	
	32 Hexachloroethane	117	7.202	7.212	(1.101)	206251	25.0000	24.1(a)	
$	33 Nitrobenzene-D5	82	7.295	7.326	(0.886)	368398	25.0000	27.1	
	34 Nitrobenzene	77	7.316	7.357	(0.888)	352454	25.0000	27.0(a)	
	35 N-Nitrosopiperidine	114	7.523	7.574	(0.913)	227305	25.0000	26.9(a)	
	36 Isophorone	82	7.658	7.698	(0.930)	674043	25.0000	27.0(a)	
	37 2-Nitrophenol	139	7.740	7.771	(0.940)	273920	25.0000	26.8(a)	
	38 2,4-Dimethylphenol	107	7.875	7.916	(0.956)	319774	25.0000	27.5(a)	
	39 O,O,O-Triethylphosphorothioat	198	7.968	7.999	(0.967)	221366	25.0000	26.8(a)	
	40 Bis(2-Chloroethoxy)methane	93	7.989	8.019	(0.970)	496740	25.0000	26.9(a)	
	41 Benzoic acid	105	8.072	8.237	(0.980)	129051	25.0000	16.0(aH)	
	42 2,4-Dichlorophenol	162	8.382	8.423	(1.018)	359886	25.0000	29.6(a)	
	43 1,2,4-Trichlorobenzene	180	8.175	8.195	(0.992)	445166	25.0000	27.6(a)	
*	44 Naphthalene-D8	136	8.237	8.257	(1.000)	1790336	40.0000		
	45 Naphthalene	128	8.268	8.288	(1.004)	1229131	25.0000	27.0(a)	
	46 alpha-Terpineol	59	8.330	8.371	(1.011)	217110	25.0000	27.2(a)	
	47 4-Chloroaniline	127	8.382	8.413	(1.018)	505673	25.0000	24.5(a)	
	48 2,6-Dichlorophenol	162	8.382	8.423	(1.018)	359886	25.0000	29.6(a)	
	49 Hexachloropropene	213	8.392	8.402	(1.019)	293434	25.0000	26.9(a)	
	50 Hexachlorobutadiene	225	8.465	8.475	(1.028)	251513	25.0000	26.3(a)	
	51 A,A-Dimethylphenethylamine	58	8.434	8.528	(1.024)	208188	25.0000	61.5(aQ)	
	52 N-Nitroso-Di-N-Butylamine	84	8.868	8.909	(1.077)	272883	25.0000	28.5(a)	
	53 p-Phenylenediamine	108	8.879	8.930	(1.078)	314890	25.0000	32.7(a)	
	54 Caprolactam	113	8.900	9.023	(1.080)	118224	25.0000	26.3(a)	
	55 4-Chloro-3-Methylphenol	107	9.096	9.147	(1.104)	327181	25.0000	22.6(aQ)	
	56 Isosafrole	162	9.127	9.147	(1.108)	368287	25.0000	27.8(a)	
	57 2-Methylnaphthalene	142	9.200	9.220	(1.117)	857604	25.0000	28.3(a)	
	58 1-Methylnaphthalene	142	9.334	9.354	(1.133)	810934	25.0000	26.9(a)	
	59 1,2,4,5-Tetrachlorobenzene	216	9.427	9.448	(0.890)	399282	25.0000	28.0(a)	
	60 Hexachlorocyclopentadiene	237	9.427	9.437	(0.890)	201723	25.0000	26.5(a)	
	61 2,4,6-Trichlorophenol	196	9.614	9.644	(0.907)	281943	25.0000	28.4(a)	
	62 2,4,5-Trichlorophenol	196	9.686	9.717	(0.914)	298577	25.0000	28.0(a)	
$	63 2-Fluorobiphenyl	172	9.728	9.748	(0.918)	862281	25.0000	26.3	
	64 Safrole	104	9.821	9.851	(0.927)	137003	25.0000	27.8(aQ)	
	65 1,1'-Biphenyl	154	9.852	9.882	(0.930)	914557	25.0000	32.5(a)	
	66 2-Chloronaphthalene	127	9.852	9.882	(0.930)	320943	25.0000	24.6(aQ)	
	67 1-Chloronaphthalene	127	9.872	9.903	(0.932)	292344	25.0000	30.0(a)	
	68 Diphenylether	170	9.997	10.017	(0.943)	579116	25.0000	25.5(a)	
	69 2-Nitroaniline	65	10.017	10.048	(0.945)	187614	25.0000	26.7(a)	
	70 1,4-Naphthoquinone	158	10.100	10.120	(0.953)	240115	25.0000	34.3(a)	
	71 1,4-Dinitrobenzene	168	10.224	10.265	(0.965)	145362	25.0000	26.8(a)	
	72 Dimethyl Phthalate	163	10.318	10.358	(0.974)	887457	25.0000	28.4(a)	
	73 1,3-Dinitrobenzene	168	10.318	10.379	(0.974)	149396	25.0000	26.5(a)	
	74 2,6-Dinitrotoluene	165	10.369	10.410	(0.979)	220194	25.0000	29.0(a)	
	75 Acenaphthylene	152	10.400	10.421	(0.981)	1219025	25.0000	27.0(a)	
	76 1,2-Dinitrobenzene	168	10.431	10.483	(0.984)	99198	25.0000	27.0(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1618.D
Report Date: 16-Nov-2023 15:11

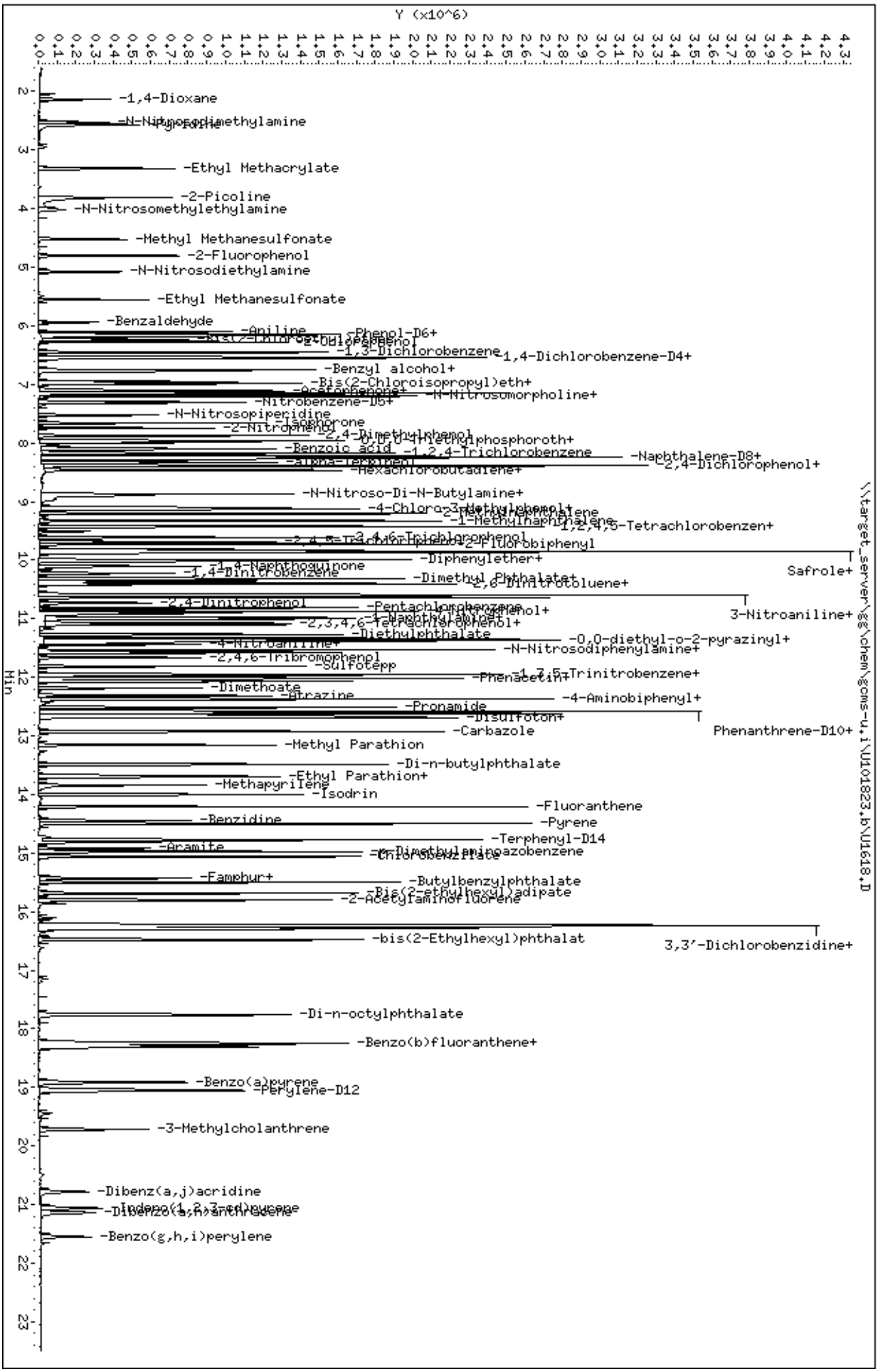
							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	77 3-Nitroaniline	138	10.576	10.648	(0.998)	247142	25.0000	28.1(a)	
*	78 Acenaphthene-D10	164	10.597	10.607	(1.000)	1039990	40.0000		
	79 Acenaphthene	153	10.638	10.659	(1.004)	726918	25.0000	27.3(a)	
	80 2,4-Dinitrophenol	184	10.732	10.793	(1.013)	142686	25.0000	26.0(a)	
	81 Pentachlorobenzene	250	10.814	10.845	(1.021)	343791	25.0000	28.9(a)	
	82 4-Nitrophenol	109	10.918	10.979	(1.030)	101955	25.0000	21.8(a)	
	83 Dibenzofuran	168	10.876	10.897	(1.026)	1107544	25.0000	26.1(a)	
	84 2,4-Dinitrotoluene	165	10.907	10.969	(1.029)	291825	25.0000	26.8(a)	
	85 1-Naphthylamine	143	10.990	11.021	(1.037)	835498	25.0000	29.2(a)	
	86 2,3,5,6-Tetrachlorophenol	232	11.011	11.052	(1.039)	223828	25.0000	27.8(a)	
	87 2,3,4,6-Tetrachlorophenol	232	11.073	11.104	(1.045)	222658	25.0000	27.7(a)	
	88 2-Naphthylamine	143	11.104	11.145	(1.048)	762360	25.0000	26.1(a)	
	89 Diethylphthalate	149	11.270	11.311	(1.063)	908996	25.0000	28.8(a)	
	90 O,O-diethyl-o-2-pyrazinylphos	107	11.373	11.424	(1.073)	150440	25.0000	27.6(a)	
	91 Thionazin	107	11.373	11.424	(1.073)	150440	25.0000	27.6(a)	
	92 Fluorene	166	11.332	11.362	(1.069)	870007	25.0000	29.2(a)	
	93 4-Chlorophenyl-phenylether	204	11.373	11.393	(1.073)	419591	25.0000	28.4(a)	
	94 5-Nitro-O-Toluidine	152	11.384	11.456	(1.074)	280756	25.0000	26.5(aQ)	
	95 4-Nitroaniline	138	11.415	11.507	(1.077)	251929	25.0000	27.8(a)	
	96 4,6-Dinitro-2-Methylphenol	198	11.446	11.518	(0.910)	170312	25.0000	27.2(a)	
	97 N-Nitrosodiphenylamine	169	11.539	11.580	(0.917)	752230	25.0000	25.1(a)	
	98 1,2-Diphenylhydrazine	77	11.580	11.600	(0.920)	693965	25.0000	28.6(a)	
	99 Azobenzene	77	11.580	11.600	(0.920)	693965	25.0000	28.6(a)	
$	100 2,4,6-Tribromophenol	330	11.663	11.694	(1.101)	110840	25.0000	27.4	
	101 Sulfotepp	97	11.808	11.839	(0.938)	143967	25.0000	27.4(a)	
	102 1,3,5-Trinitrobenzene	213	11.963	12.066	(0.951)	92419	25.0000	27.5(aQ)	
	103 Diallate	86	11.942	11.973	(0.949)	216894	25.0000	26.9(a)	
	104 Phorate	75	11.953	11.983	(0.950)	592447	25.0000	35.1(a)	
	105 Phenacetin	108	12.025	12.118	(0.956)	391029	25.0000	28.0(a)	
	106 4-Bromophenyl-phenylether	248	12.025	12.046	(0.956)	245403	25.0000	25.6(a)	
	107 Hexachlorobenzene	284	12.067	12.097	(0.959)	261527	25.0000	28.2(a)	
	108 Dimethoate	87	12.181	12.253	(0.968)	265756	25.0000	35.4(a)	
	109 Atrazine	200	12.315	12.356	(0.979)	214099	25.0000	35.9(a)	
	110 4-Aminobiphenyl	169	12.377	12.418	(0.984)	789684	25.0000	20.4(a)	
	111 Pentachlorophenol	266	12.367	12.397	(0.983)	177454	25.0000	28.5(a)	
	112 Pentachloronitrobenzene	237	12.367	12.387	(0.983)	114498	25.0000	28.4(a)	
	113 Pronamide	173	12.512	12.563	(0.994)	410086	25.0000	24.3(a)	
*	114 Phenanthrene-D10	188	12.584	12.615	(1.000)	1769297	40.0000		
	115 Disulfoton	88	12.667	12.698	(1.007)	455913	25.0000	31.8(aQ)	
	116 Phenanthrene	178	12.615	12.656	(1.002)	1144439	25.0000	27.7(a)	
	117 Dinoseb	211	12.646	12.687	(1.005)	227952	25.0000	27.8(a)	
	118 Anthracene	178	12.688	12.729	(1.008)	1206451	25.0000	26.2(a)	
	119 Carbazole	167	12.926	12.967	(1.027)	1199539	25.0000	23.2(a)	
	120 Methyl Parathion	109	13.153	13.174	(1.045)	257108	25.0000	35.5(a)	
	121 Di-n-butylphthalate	149	13.485	13.515	(1.072)	1541738	25.0000	25.1(a)	
	122 Ethyl Parathion	291	13.702	13.733	(1.089)	86000	25.0000	27.9(a)	
	123 Parathion	291	13.702	13.733	(1.089)	86000	25.0000	27.9(a)	
	124 4-Nitroquinoline-1-Oxide	190	13.681	13.712	(1.087)	120888	25.0000	35.0(a)	
	125 Methapyrilene	97	13.837	13.877	(1.100)	358078	25.0000	35.2(a)	
	126 Isodrin	193	14.002	14.012	(1.113)	166613	25.0000	25.2(a)	
	127 Fluoranthene	202	14.209	14.240	(1.129)	1254389	25.0000	21.8(a)	
	128 Pyrene	202	14.499	14.530	(0.892)	1320027	25.0000	23.3(a)	
	129 Benzidine	184	14.447	14.467	(0.889)	478177	25.0000	30.9(a)	
$	130 Terphenyl-D14	244	14.778	14.799	(0.910)	946698	25.0000	22.7	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1618.D
Report Date: 16-Nov-2023 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	131 Aramite	185	14.923	14.933	(0.918)	95163	25.0000	24.7(a)	
	132 p-Dimethylaminoazobenzene	225	14.975	15.006	(0.922)	281462	25.0000	22.2(a)	
	133 Chlorobenzilate	251	15.068	15.088	(0.927)	414009	25.0000	22.5(a)	
	134 Famphur	218	15.389	15.399	(0.947)	15320	25.0000	(a)	
	135 3,3'-Dimethylbenzidine	212	15.430	15.451	(0.950)	338582	25.0000	31.7(a)	
	136 Butylbenzylphthalate	149	15.503	15.513	(0.954)	758897	25.0000	24.8(a)	
	137 Bis(2-ethylhexyl)adipate	129	15.689	15.709	(0.966)	608372	25.0000	22.2(a)	
	138 2-Acetylaminofluorene	181	15.803	15.834	(0.973)	526650	25.0000	29.8(a)	
	139 3,3'-Dichlorobenzidine	252	16.248	16.258	(1.000)	411223	25.0000	27.4(a)	
	140 Benzo(a)anthracene	228	16.227	16.248	(0.999)	1260059	25.0000	27.7(a)	
*	141 Chrysene-D12	240	16.248	16.268	(1.000)	1467190	40.0000		
	142 Chrysene	228	16.290	16.310	(1.003)	1175977	25.0000	28.2(a)	
	143 bis(2-Ethylhexyl)phthalate	149	16.476	16.496	(1.014)	1040456	25.0000	25.4(a)	
	145 Di-n-octylphthalate	149	17.759	17.769	(0.932)	1652315	25.0000	17.5(a)	
	146 Benzo(b)fluoranthene	252	18.235	18.256	(0.957)	910842	25.0000	28.7(a)	
	148 7,12-Dimethylbenz(A)Anthracen	256	18.256	18.276	(0.958)	461719	25.0000	28.4(a)	
	149 Benzo(k)fluoranthene	252	18.308	18.328	(0.961)	875133	25.0000	28.5(aH)	
	150 Benzo(a)pyrene	252	18.918	18.928	(0.993)	670896	25.0000	27.4(a)	
*	151 Perylene-D12	264	19.053	19.053	(1.000)	863657	40.0000		
	152 3-Methylcholanthrene	268	19.715	19.736	(1.035)	272976	25.0000	24.7(a)	
	153 Dibenz(a,j)acridine	279	20.781	20.802	(1.091)	218902	25.0000	19.9(a)	
	154 Indeno(1,2,3-cd)pyrene	276	21.061	21.081	(1.105)	251787	25.0000	20.1(a)	
	155 Dibenzo(a,h)anthracene	278	21.144	21.164	(1.110)	252293	25.0000	20.2(a)	
	156 Benzo(g,h,i)perylene	276	21.547	21.578	(1.131)	233735	25.0000	18.9(a)	
M	157 Total PAHs	100				16269647	425.000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101823,b\U1618.D
Date : 18-OCT-2023 10:44
Client ID:
Sample Info: WG344071-3
Column phase: Rxi-5ViOms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101823,b\U1618.D
Y (x10^6)
Min
-1,4-Dioxane
-Ethyl Methacrylate
-2-Picoline
-N-Nitrosomethylethylamine
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Aniline
-Phenol-D6+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-2-Nitrophenol
-2,4-Dimethylphenol
-Benzoic acid
-1,2,4-Trichlorobenzene
-Naphthalene-D8+
-Hexachlorobutadiene+
2,4-Dichlorophenol+
-N-Nitroso-Di-N-Butylamine+
-4-Chloro-3-Methylphenol+
-1-Methylnaphthalene
1,2,4,5-Tetrachlorobenzen+
2,4,6-Trichlorophenol
-Diphenylether+
Safrole+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-2,6-Dinitrotoluene+
-2,4-Dinitrophenol
-Pentachlorobenzene
3-Nitroaniline+
-2,3,4,6-Tetrachlorophenol+
-Diethylphthalate
-0,0-diethyl-o-2-pyrazinyl+
-4-Nitroaniline+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-Sulfotepp
-Phenacetin+
-1,3,5-Trinitrobenzene+
-Dimethoate
-Atrazine
-4-Aminobiphenyl+
-Pronamide
-Disulfoton+
Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite
-Chlorobenzilate
-Famphur+
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-bis(2-Ethylhexyl)phthalat
3,3'-Dichlorobenzidine+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene
-Dibenz(a,h)anthracene
-Benzo(g,h,i)perylene

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1619.D
Report Date: 16-Nov-2023 15:11

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1619.D
Lab Smp Id: WG344071-2
Inj Date : 18-OCT-2023 11:14
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344071-2
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 16-Nov-2023 15:09 gcms-u.i   Quant Type: ISTD
Cal Date : 18-OCT-2023 11:14   Cal File: U1619.D
Als bottle: 4   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M))*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.122	2.182	(0.258)	32457	10.0000	11.1(a)	
	2 N-Nitrosodimethylamine	42	2.515	2.617	(0.385)	53717	10.0000	11.4(a)	
	3 Pyridine	79	2.567	2.627	(0.393)	166986	10.0000	11.1(a)	
	4 Ethyl Methacrylate	69	3.302	3.362	(0.506)	132745	10.0000	11.3(a)	
	5 2-Picoline	93	3.809	3.828	(0.583)	205709	10.0000	11.2(a)	
	6 N-Nitrosomethylethylamine	88	4.016	4.066	(0.615)	73473	10.0000	10.6(a)	
	7 Methyl Methanesulfonate	80	4.513	4.573	(0.691)	97627	10.0000	11.3(a)	
$	8 2-Fluorophenol	112	4.792	4.821	(0.734)	181054	10.0000	11.4(a)	
	9 N-Nitrosodiethylamine	102	5.071	5.121	(0.777)	84726	10.0000	10.7(a)	
	10 Ethyl Methanesulfonate	79	5.548	5.597	(0.849)	126096	10.0000	11.4(a)	
	11 Benzaldehyde	77	5.941	5.949	(0.910)	36593	10.0000	8.63(a)	
$	12 Phenol-D6	99	6.158	6.187	(0.943)	184564	10.0000	11.5(a)	
	13 Aniline	93	6.106	6.136	(0.935)	243599	10.0000	11.7(a)	
	14 Phenol	94	6.179	6.208	(0.946)	194718	10.0000	10.9(a)	
	15 Pentachloroethane	117	6.148	6.156	(0.941)	79717	10.0000	12.3(a)	
	16 Bis(2-Chloroethyl)ether	93	6.231	6.260	(0.954)	157322	10.0000	11.7(a)	
	17 2-Chlorophenol	128	6.272	6.291	(0.960)	206199	10.0000	11.9(a)	
	18 1,3-Dichlorobenzene	146	6.448	6.467	(0.987)	240246	10.0000	10.3(a)	
*	19 1,4-Dichlorobenzene-D4	152	6.531	6.550	(1.000)	581164	40.0000		
	20 1,4-Dichlorobenzene	146	6.562	6.570	(1.005)	230676	10.0000	10.7(a)	
	21 Benzyl alcohol	108	6.769	6.819	(1.036)	117069	10.0000	10.8(a)	
	22 1,2-Dichlorobenzene	146	6.748	6.767	(1.033)	233574	10.0000	9.92(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1619.D
Report Date: 16-Nov-2023 15:11

EP
3:24 pm, Nov 16, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	23 Bis(2-Chloroisopropyl)ether	45	6.955	6.974	(1.065)	144068	10.0000	11.7(aQ)	
	24 2,2'-Oxybis(1-chloropropane)	45	6.955	6.974	(1.065)	144068	10.0000	11.7(aQ)	
	25 2-Methylphenol	108	6.976	7.046	(1.068)	167655	10.0000	11.1(a)	
	26 Acetophenone	105	7.100	7.140	(0.862)	240991	10.0000	11.8(a)	
	27 N-Nitrosopyrrolidine	100	7.069	7.191	(1.082)	84175	10.0000	8.01(a)	
	28 N-Nitrosomorpholine	56	7.141	7.222	(1.093)	63801	10.0000	12.3(a)	
	29 N-Nitroso-di-n-propylamine	70	7.131	7.202	(1.092)	100723	10.0000	9.89(a)	
	30 3&4-Methylphenol	108	7.183	7.243	(1.100)	170011	10.0000	11.7(a)	
	31 o-Toluidine	106	7.141	7.181	(1.093)	265266	10.0000	12.5(a)	
	32 Hexachloroethane	117	7.193	7.212	(1.101)	88245	10.0000	9.51(a)	
$	33 Nitrobenzene-D5	82	7.286	7.326	(0.884)	157715	10.0000	11.9	
	34 Nitrobenzene	77	7.307	7.357	(0.887)	153624	10.0000	12.0(a)	
	35 N-Nitrosopiperidine	114	7.514	7.574	(0.912)	91021	10.0000	11.0(a)	
	36 Isophorone	82	7.659	7.698	(0.930)	291919	10.0000	12.0(a)	
	37 2-Nitrophenol	139	7.742	7.771	(0.940)	113737	10.0000	11.4(a)	
	38 2,4-Dimethylphenol	107	7.876	7.916	(0.956)	135004	10.0000	11.8(a)	
	39 O,O,O-Triethylphosphorothioat	198	7.959	7.999	(0.966)	94417	10.0000	11.7(a)	
	40 Bis(2-Chloroethoxy)methane	93	7.980	8.019	(0.969)	190456	10.0000	10.5(a)	
	41 Benzoic acid	105	8.073	8.237	(0.980)	43121	10.0000	5.48(a)	
	42 2,4-Dichlorophenol	162	8.383	8.423	(1.018)	163396	10.0000	13.7(a)	
	43 1,2,4-Trichlorobenzene	180	8.176	8.195	(0.992)	186853	10.0000	11.2(a)	
*	44 Naphthalene-D8	136	8.239	8.257	(1.000)	1750993	40.0000		
	45 Naphthalene	128	8.259	8.288	(1.002)	541026	10.0000	10.5(a)	
	46 alpha-Terpineol	59	8.332	8.371	(1.011)	94521	10.0000	12.1(a)	
	47 4-Chloroaniline	127	8.373	8.413	(1.016)	216353	10.0000	9.02(a)	
	48 2,6-Dichlorophenol	162	8.383	8.423	(1.018)	163396	10.0000	13.7(a)	
	49 Hexachloropropene	213	8.394	8.402	(1.019)	126292	10.0000	11.1(a)	
	50 Hexachlorobutadiene	225	8.456	8.475	(1.026)	105115	10.0000	10.4(a)	
	51 A,A-Dimethylphenethylamine	58	8.311	8.528	(1.009)	32438	10.0000	9.80(aQ)	
	52 N-Nitroso-Di-N-Butylamine	84	8.860	8.909	(1.075)	127157	10.0000	13.2(a)	
	53 p-Phenylenediamine	108	8.870	8.930	(1.077)	139341	10.0000	14.8(a)	
	54 Caprolactam	113	8.860	9.023	(1.075)	48528	10.0000	11.0(a)	
	55 4-Chloro-3-Methylphenol	107	9.098	9.147	(1.104)	145333	10.0000	8.93(a)	
	56 Isosafrole	162	9.118	9.147	(1.107)	153113	10.0000	11.8(a)	
	57 2-Methylnaphthalene	142	9.201	9.220	(1.117)	378134	10.0000	12.1(a)	
	58 1-Methylnaphthalene	142	9.325	9.354	(1.132)	345942	10.0000	10.6(a)	
	59 1,2,4,5-Tetrachlorobenzene	216	9.429	9.448	(0.890)	176108	10.0000	11.1(a)	
	60 Hexachlorocyclopentadiene	237	9.429	9.437	(0.890)	83925	10.0000	9.68(a)	
	61 2,4,6-Trichlorophenol	196	9.615	9.644	(0.907)	118930	10.0000	11.5(a)	
	62 2,4,5-Trichlorophenol	196	9.688	9.717	(0.914)	122771	10.0000	11.0(a)	
$	63 2-Fluorobiphenyl	172	9.719	9.748	(0.917)	377048	10.0000	9.70	
	64 Safrole	104	9.822	9.851	(0.927)	57850	10.0000	11.2(a)	
	65 1,1'-Biphenyl	154	9.843	9.882	(0.929)	408567	10.0000	13.9(a)	
	66 2-Chloronaphthalene	127	9.843	9.882	(0.929)	168874	10.0000	12.4(a)	
	67 1-Chloronaphthalene	127	9.874	9.903	(0.932)	110266	10.0000	10.8(a)	
	68 Diphenylether	170	9.998	10.017	(0.943)	258295	10.0000	9.86(a)	
	69 2-Nitroaniline	65	10.019	10.048	(0.945)	82935	10.0000	11.3(a)	
	70 1,4-Naphthoquinone	158	10.102	10.120	(0.953)	121565	10.0000	16.6(a)	
	71 1,4-Dinitrobenzene	168	10.215	10.265	(0.964)	55966	10.0000	9.89(a)	
	72 Dimethyl Phthalate	163	10.309	10.358	(0.973)	389149	10.0000	11.9(aM)	M6
	73 1,3-Dinitrobenzene	168	10.309	10.379	(0.973)	60166	10.0000	10.2(a)	
	74 2,6-Dinitrotoluene	165	10.360	10.410	(0.978)	88216	10.0000	11.1(a)	
	75 Acenaphthylene	152	10.391	10.421	(0.980)	544335	10.0000	9.58(a)	
	76 1,2-Dinitrobenzene	168	10.412	10.483	(0.982)	38375	10.0000	9.99(aQ)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1619.D
Report Date: 16-Nov-2023 15:11

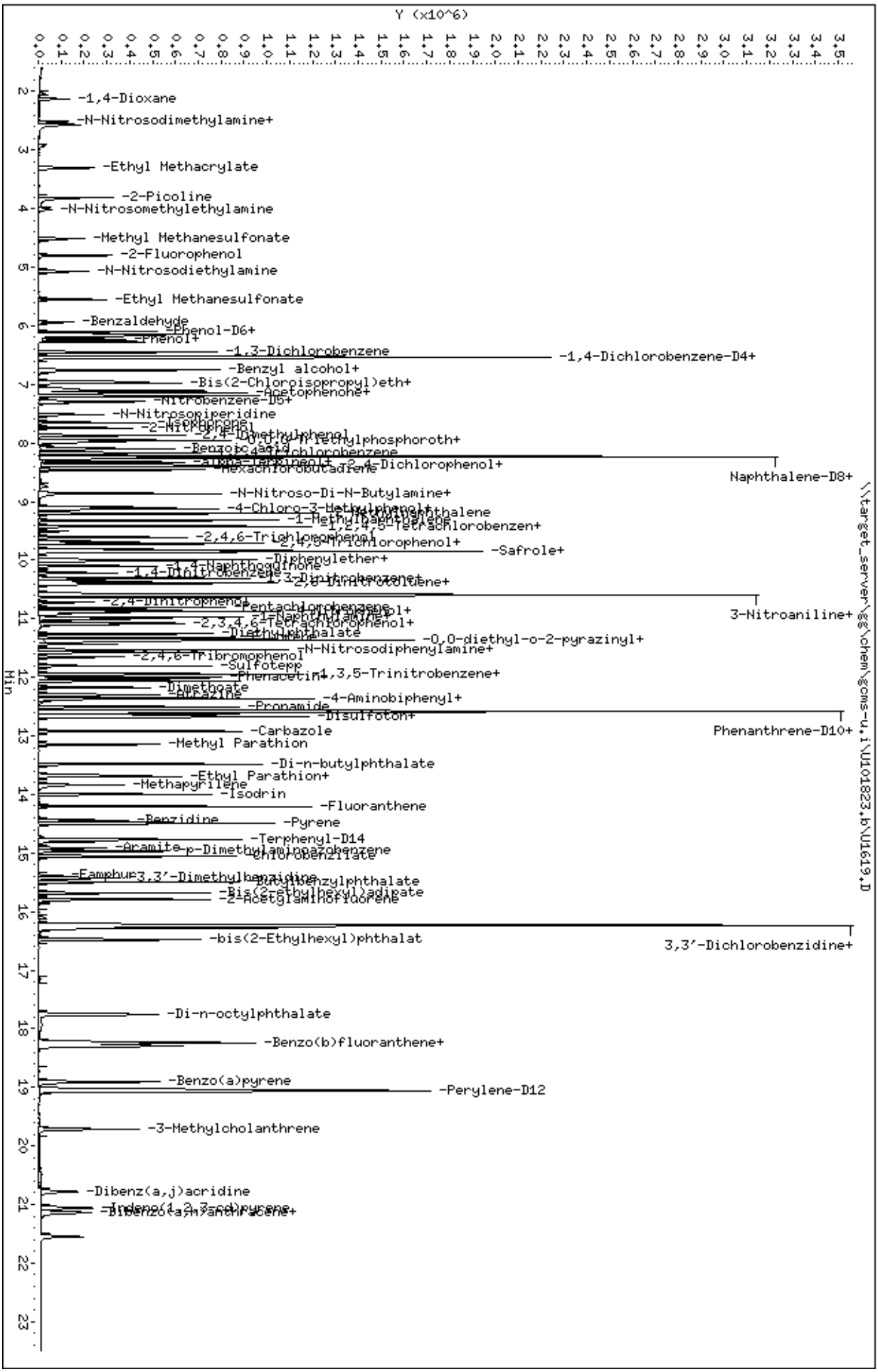
			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	77	3-Nitroaniline	138	10.578	10.648	(0.998)	101821	10.0000	11.1(a)	
*	78	Acenaphthene-D10	164	10.598	10.607	(1.000)	1085717	40.0000		
	79	Acenaphthene	153	10.629	10.659	(1.003)	328631	10.0000	10.9(a)	
	80	2,4-Dinitrophenol	184	10.723	10.793	(1.012)	50104	10.0000	8.76(a)	
	81	Pentachlorobenzene	250	10.816	10.845	(1.021)	145977	10.0000	11.8(a)	
	82	4-Nitrophenol	109	10.919	10.979	(1.030)	37339	10.0000	5.97(a)	
	83	Dibenzofuran	168	10.868	10.897	(1.025)	486000	10.0000	9.23(a)	
	84	2,4-Dinitrotoluene	165	10.899	10.969	(1.028)	121635	10.0000	10.7(a)	
	85	1-Naphthylamine	143	10.981	11.021	(1.036)	360799	10.0000	12.1(a)	
	86	2,3,5,6-Tetrachlorophenol	232	11.002	11.052	(1.038)	88162	10.0000	10.5(a)	
	87	2,3,4,6-Tetrachlorophenol	232	11.064	11.104	(1.044)	87539	10.0000	10.4(a)	
	88	2-Naphthylamine	143	11.095	11.145	(1.047)	320649	10.0000	9.49(a)	
	89	Diethylphthalate	149	11.261	11.311	(1.062)	385251	10.0000	11.7(a)	
	90	O,O-diethyl-o-2-pyrazinylphos	107	11.364	11.424	(1.072)	65404	10.0000	11.5(a)	
	91	Thionazin	107	11.364	11.424	(1.072)	65404	10.0000	11.5(a)	
	92	Fluorene	166	11.333	11.362	(1.069)	384531	10.0000	12.4(a)	
	93	4-Chlorophenyl-phenylether	204	11.364	11.393	(1.072)	179023	10.0000	11.6(a)	
	94	5-Nitro-O-Toluidine	152	11.375	11.456	(1.073)	115083	10.0000	10.4(a)	
	95	4-Nitroaniline	138	11.395	11.507	(1.075)	96442	10.0000	10.2(a)	
	96	4,6-Dinitro-2-Methylphenol	198	11.437	11.518	(0.909)	66129	10.0000	10.4(a)	
	97	N-Nitrosodiphenylamine	169	11.530	11.580	(0.916)	328196	10.0000	9.26(a)	
	98	1,2-Diphenylhydrazine	77	11.571	11.600	(0.919)	299365	10.0000	10.5(a)	
	99	Azobenzene	77	11.571	11.600	(0.919)	299365	10.0000	10.5(a)	
$	100	2,4,6-Tribromophenol	330	11.654	11.694	(1.100)	44488	10.0000	10.5	
	101	Sulfotepp	97	11.809	11.839	(0.938)	61352	10.0000	10.6(a)	
	102	1,3,5-Trinitrobenzene	213	11.944	12.066	(0.949)	34934	10.0000	10.3(aQ)	
	103	Diallate	86	11.944	11.973	(0.949)	90356	10.0000	10.2(a)	
	104	Phorate	75	11.944	11.983	(0.949)	251242	10.0000	14.7(a)	
	105	Phenacetin	108	12.006	12.118	(0.954)	167743	10.0000	11.9(a)	
	106	4-Bromophenyl-phenylether	248	12.016	12.046	(0.955)	105163	10.0000	9.81(a)	
	107	Hexachlorobenzene	284	12.058	12.097	(0.958)	108764	10.0000	11.0(a)	
	108	Dimethoate	87	12.172	12.253	(0.967)	129092	10.0000	17.0(a)	
	109	Atrazine	200	12.306	12.356	(0.978)	101779	10.0000	16.9(a)	
	110	4-Aminobiphenyl	169	12.368	12.418	(0.983)	360533	10.0000	7.37(a)	
	111	Pentachlorophenol	266	12.358	12.397	(0.982)	63204	10.0000	10.0(a)	
	112	Pentachloronitrobenzene	237	12.358	12.387	(0.982)	47321	10.0000	11.6(a)	
	113	Pronamide	173	12.503	12.563	(0.993)	181918	10.0000	9.64(a)	
*	114	Phenanthrene-D10	188	12.586	12.615	(1.000)	1789959	40.0000		
	115	Disulfoton	88	12.658	12.698	(1.006)	195469	10.0000	13.5(a)	
	116	Phenanthrene	178	12.606	12.656	(1.002)	514402	10.0000	11.0(a)	
	117	Dinoseb	211	12.637	12.687	(1.004)	86522	10.0000	10.4(a)	
	118	Anthracene	178	12.679	12.729	(1.007)	526668	10.0000	9.58(a)	
	119	Carbazole	167	12.927	12.967	(1.027)	526763	10.0000	7.74(a)	
	120	Methyl Parathion	109	13.145	13.174	(1.044)	121784	10.0000	16.6(a)	
	121	Di-n-butylphthalate	149	13.486	13.515	(1.072)	675518	10.0000	8.13(a)	
	122	Ethyl Parathion	291	13.693	13.733	(1.088)	34186	10.0000	11.0(a)	
	123	Parathion	291	13.693	13.733	(1.088)	34186	10.0000	11.0(a)	
	124	4-Nitroquinoline-1-Oxide	190	13.672	13.712	(1.086)	40087	10.0000	11.5(a)	
	125	Methapyrilene	97	13.838	13.877	(1.100)	167463	10.0000	16.3(a)	
	126	Isodrin	193	13.993	14.012	(1.112)	70670	10.0000	9.43(a)	
	127	Fluoranthene	202	14.200	14.240	(1.128)	564139	10.0000	7.25(a)	
	128	Pyrene	202	14.490	14.530	(0.892)	600652	10.0000	10.0(a)	
	129	Benzidine	184	14.438	14.467	(0.889)	207032	10.0000	12.7(a)	
$	130	Terphenyl-D14	244	14.770	14.799	(0.909)	416867	10.0000	9.50	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1619.D
Report Date: 16-Nov-2023 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
131	Aramite	185	14.914	14.933	(0.918)	37531	10.0000	9.26(a)	
132	p-Dimethylaminoazobenzene	225	14.977	15.006	(0.922)	114729	10.0000	8.59(a)	
133	Chlorobenzilate	251	15.059	15.088	(0.927)	171404	10.0000	8.85(a)	
134	Famphur	218	15.391	15.399	(0.948)	51249	10.0000	(a)	
135	3,3'-Dimethylbenzidine	212	15.432	15.451	(0.950)	166099	10.0000	14.8(a)	
136	Butylbenzylphthalate	149	15.494	15.513	(0.954)	315850	10.0000	9.79(a)	
137	Bis(2-ethylhexyl)adipate	129	15.680	15.709	(0.966)	242225	10.0000	8.40(a)	
138	2-Acetylaminofluorene	181	15.794	15.834	(0.973)	247316	10.0000	9.61(a)	
139	3,3'-Dichlorobenzidine	252	16.239	16.258	(1.000)	194472	10.0000	9.28(a)	
140	Benzo(a)anthracene	228	16.219	16.248	(0.999)	545087	10.0000	11.4(a)	
* 141	Chrysene-D12	240	16.239	16.268	(1.000)	1544776	40.0000		
142	Chrysene	228	16.281	16.310	(1.003)	512501	10.0000	11.7(a)	
143	bis(2-Ethylhexyl)phthalate	149	16.477	16.496	(1.015)	419209	10.0000	9.71(a)	
145	Di-n-octylphthalate	149	17.750	17.769	(0.932)	693957	10.0000	7.65(a)	
146	Benzo(b)fluoranthene	252	18.237	18.256	(0.957)	528469	10.0000	10.2(a)	
148	7,12-Dimethylbenz(A)Anthracen	256	18.247	18.276	(0.958)	242044	10.0000	9.17(a)	
149	Benzo(k)fluoranthene	252	18.299	18.328	(0.960)	512744	10.0000	10.3(aH)	
150	Benzo(a)pyrene	252	18.910	18.928	(0.992)	426880	10.0000	10.7(a)	
* 151	Perylene-D12	264	19.054	19.053	(1.000)	1403358	40.0000		
152	3-Methylcholanthrene	268	19.717	19.736	(1.035)	201088	10.0000	11.2(a)	
153	Dibenz(a,j)acridine	279	20.783	20.802	(1.091)	154495	10.0000	8.83(a)	
154	Indeno(1,2,3-cd)pyrene	276	21.062	21.081	(1.105)	183170	10.0000	9.19(a)	
155	Dibenzo(a,h)anthracene	278	21.135	21.164	(1.109)	188510	10.0000	9.52(a)	
156	Benzo(g,h,i)perylene	276	21.549	21.578	(1.131)	160579	10.0000	8.17(a)	
M 157	Total PAHs	100				7786400	170.000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101823,b\U1619,D
Date : 18-OCT-2023 11:14
Client ID:
Sample Info: WG344071-2
Column phase: Rxi-5ViOms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101823,b\U1619,D
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-Ethyl Methacrylate
-2-Picoline
-N-Nitrosomethylethylamine
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Phenol-D6+
-Phenol+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-Bis(2-Chloroisopropyl)eth+
-Acetophenone+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-2-Nitrophenol
-2,4-Dimethylphenol
-Benzoic acid
-Hexachlorobutadiene
-2,4-Dichlorophenol+
Naphthalene-D8+
-N-Nitroso-Di-N-Butylamine+
-4-Chloro-3-Methylphenol+
-1-Methylnaphthalene
-2,4,6-Trichlorophenol
-2,4,5-Trichlorophenol+
-Safrole+
-Diphenylether+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-2,6-Dinitrotoluene+
-2,4-Dinitrophenol
-Pentachlorobenzene
-1-Naphthylamine
-2,3,4,6-Tetrachlorophenol+
3-Nitroaniline+
-Diethylphthalate
-O,O-diethyl-o-2-pyrazinyl+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-Sulfotepp
-Phenacetin
1,3,5-Trinitrobenzene+
-Dimethoate
-Aramite
-4-Aminobiphenyl+
-Pronamide
-Disulfoton+
Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Famphur
3,3'-Dimethylbenzidine
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-bis(2-Ethylhexyl)phthalat
3,3'-Dichlorobenzidine+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene+
-Dibenz(a,h)anthracene+

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Report Date: 16-Nov-2023 15:11

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1620.D
Lab Smp Id: WG344071-5
Inj Date : 18-OCT-2023 11:45
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344071-5
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 16-Nov-2023 15:09 gcms-u.i   Quant Type: ISTD
Cal Date : 18-OCT-2023 11:45   Cal File: U1620.D
Als bottle: 5   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M))*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1	1,4-Dioxane	58	2.152	2.182	(0.261)	226274	75.0000	70.3(a)	
	2	N-Nitrosodimethylamine	42	2.566	2.617	(0.392)	352096	75.0000	71.1(a)	
	3	Pyridine	79	2.587	2.627	(0.396)	1080382	75.0000	68.5(a)	
	4	Ethyl Methacrylate	69	3.332	3.362	(0.509)	859119	75.0000	69.8(a)	
	5	2-Picoline	93	3.808	3.828	(0.582)	1341746	75.0000	69.8(a)	
	6	N-Nitrosomethylethylamine	88	4.046	4.066	(0.619)	518923	75.0000	71.3(a)	
	7	Methyl Methanesulfonate	80	4.543	4.573	(0.695)	666545	75.0000	73.4(a)	
$	8	2-Fluorophenol	112	4.802	4.821	(0.734)	1173748	75.0000	70.2(a)	
	9	N-Nitrosodiethylamine	102	5.102	5.121	(0.780)	612222	75.0000	74.0(a)	
	10	Ethyl Methanesulfonate	79	5.578	5.597	(0.853)	802949	75.0000	69.2(a)	
	11	Benzaldehyde	77	5.951	5.949	(0.910)	193081	75.0000	76.3(a)	
$	12	Phenol-D6	99	6.168	6.187	(0.943)	1178422	75.0000	70.0(a)	
	13	Aniline	93	6.126	6.136	(0.937)	1544092	75.0000	70.8(a)	
	14	Phenol	94	6.189	6.208	(0.946)	1353759	75.0000	72.6(a)	
	15	Pentachloroethane	117	6.158	6.156	(0.941)	472085	75.0000	69.4(a)	
	16	Bis(2-Chloroethyl)ether	93	6.251	6.260	(0.956)	987578	75.0000	70.0(a)	
	17	2-Chlorophenol	128	6.282	6.291	(0.960)	1244423	75.0000	68.6(a)	
	18	1,3-Dichlorobenzene	146	6.458	6.467	(0.987)	1397620	75.0000	73.4(a)	
*	19	1,4-Dichlorobenzene-D4	152	6.540	6.550	(1.000)	609574	40.0000	(Q)	
	20	1,4-Dichlorobenzene	146	6.572	6.570	(1.005)	1379556	75.0000	75.7(a)	
	21	Benzyl alcohol	108	6.799	6.819	(1.040)	811947	75.0000	71.5(a)	
	22	1,2-Dichlorobenzene	146	6.758	6.767	(1.033)	1313870	75.0000	71.6(a)	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	23 Bis(2-Chloroisopropyl)ether	45	6.965	6.974	(1.065)	897286	75.0000	69.7(aQ)	
	24 2,2'-Oxybis(1-chloropropane)	45	6.965	6.974	(1.065)	895046	75.0000	69.6(aQ)	
	25 2-Methylphenol	108	7.027	7.046	(1.074)	1120456	75.0000	70.5(aM)	M9
	26 Acetophenone	105	7.120	7.140	(0.863)	1541763	75.0000	68.8(a)	
	27 N-Nitrosopyrrolidine	100	7.151	7.191	(1.093)	537281	75.0000	75.6(aQM)	M9
	28 N-Nitrosomorpholine	56	7.193	7.222	(1.100)	401857	75.0000	73.8(a)	
	29 N-Nitroso-di-n-propylamine	70	7.182	7.202	(1.098)	594266	75.0000	74.3(a)	
	30 3&4-Methylphenol	108	7.213	7.243	(1.103)	1053396	75.0000	69.0(aH)	
	31 o-Toluidine	106	7.172	7.181	(1.097)	1473816	75.0000	66.4(aH)	
	32 Hexachloroethane	117	7.203	7.212	(1.101)	522259	75.0000	75.0(a)	
$	33 Nitrobenzene-D5	82	7.306	7.326	(0.886)	997371	75.0000	68.4	
	34 Nitrobenzene	77	7.337	7.357	(0.890)	928803	75.0000	66.3(a)	
	35 N-Nitrosopiperidine	114	7.555	7.574	(0.916)	636113	75.0000	70.0(a)	
	36 Isophorone	82	7.679	7.698	(0.931)	1822712	75.0000	68.0(a)	
	37 2-Nitrophenol	139	7.762	7.771	(0.941)	810616	75.0000	73.7(a)	
	38 2,4-Dimethylphenol	107	7.896	7.916	(0.957)	859869	75.0000	68.7(a)	
	39 O,O,O-Triethylphosphorothioat	198	7.979	7.999	(0.967)	623448	75.0000	70.3(a)	
	40 Bis(2-Chloroethoxy)methane	93	8.010	8.019	(0.971)	1502908	75.0000	75.6(a)	
	41 Benzoic acid	105	8.165	8.237	(0.990)	731892	75.0000	81.6(a)	
	42 2,4-Dichlorophenol	162	8.404	8.423	(1.019)	878133	75.0000	67.9(a)	
	43 1,2,4-Trichlorobenzene	180	8.186	8.195	(0.992)	1120736	75.0000	72.9(a)	
*	44 Naphthalene-D8	136	8.248	8.257	(1.000)	1924670	40.0000		
	45 Naphthalene	128	8.279	8.288	(1.004)	2823581	75.0000	74.3(a)	
	46 alpha-Terpineol	59	8.352	8.371	(1.013)	588178	75.0000	68.5(a)	
	47 4-Chloroaniline	127	8.393	8.413	(1.018)	1237974	75.0000	76.1(a)	
	48 2,6-Dichlorophenol	162	8.404	8.423	(1.019)	878133	75.0000	67.9(a)	
	49 Hexachloropropene	213	8.393	8.402	(1.018)	738009	75.0000	72.0(a)	
	50 Hexachlorobutadiene	225	8.466	8.475	(1.026)	637114	75.0000	72.7(a)	
	51 A,A-Dimethylphenethylamine	58	8.528	8.528	(1.034)	67840	75.0000	18.6(aQ)	
	52 N-Nitroso-Di-N-Butylamine	84	8.880	8.909	(1.077)	688337	75.0000	71.8(a)	
	53 p-Phenylenediamine	108	8.911	8.930	(1.080)	745586	75.0000	72.0(a)	
	54 Caprolactam	113	8.983	9.023	(1.089)	358377	75.0000	74.2(a)	
	55 4-Chloro-3-Methylphenol	107	9.128	9.147	(1.107)	879617	75.0000	76.6(aQ)	
	56 Isosafrole	162	9.138	9.147	(1.108)	960031	75.0000	67.5(a)	
	57 2-Methylnaphthalene	142	9.211	9.220	(1.117)	2150576	75.0000	74.7(a)	
	58 1-Methylnaphthalene	142	9.345	9.354	(1.133)	2017425	75.0000	75.9(a)	
	59 1,2,4,5-Tetrachlorobenzene	216	9.439	9.448	(0.890)	1031317	75.0000	72.4(a)	
	60 Hexachlorocyclopentadiene	237	9.439	9.437	(0.890)	523103	75.0000	71.3(a)	
	61 2,4,6-Trichlorophenol	196	9.635	9.644	(0.908)	772127	75.0000	68.6(a)	
	62 2,4,5-Trichlorophenol	196	9.697	9.717	(0.914)	840254	75.0000	69.5(a)	
$	63 2-Fluorobiphenyl	172	9.739	9.748	(0.918)	2123982	75.0000	70.9	
	64 Safrole	104	9.842	9.851	(0.928)	383414	75.0000	68.5(aQ)	
	65 1,1'-Biphenyl	154	9.863	9.882	(0.930)	1895537	75.0000	59.4(a)	
	66 2-Chloronaphthalene	127	9.873	9.882	(0.931)	1086430	75.0000	73.4(aQ)	
	67 1-Chloronaphthalene	127	9.894	9.903	(0.933)	666729	75.0000	60.3(aQH)	
	68 Diphenylether	170	10.008	10.017	(0.943)	1488555	75.0000	70.3(a)	
	69 2-Nitroaniline	65	10.039	10.048	(0.946)	534995	75.0000	67.1(a)	
	70 1,4-Naphthoquinone	158	10.111	10.120	(0.953)	351828	75.0000	44.3(a)	
	71 1,4-Dinitrobenzene	168	10.246	10.265	(0.966)	440522	75.0000	71.7(a)	
	72 Dimethyl Phthalate	163	10.339	10.358	(0.975)	2284734	75.0000	64.6(a)	
	73 1,3-Dinitrobenzene	168	10.360	10.379	(0.977)	450457	75.0000	70.6(a)	
	74 2,6-Dinitrotoluene	165	10.391	10.410	(0.980)	576751	75.0000	66.9(a)	
	75 Acenaphthylene	152	10.411	10.421	(0.981)	2811262	75.0000	68.1(a)	
	76 1,2-Dinitrobenzene	168	10.453	10.483	(0.985)	293379	75.0000	70.3(aQ)	

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							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	77 3-Nitroaniline	138	10.618	10.648	(1.001)	698739	75.0000	70.0(a)	
*	78 Acenaphthene-D10	164	10.608	10.607	(1.000)	1179174	40.0000		
	79 Acenaphthene	153	10.649	10.659	(1.004)	1798048	75.0000	69.3(a)	
	80 2,4-Dinitrophenol	184	10.763	10.793	(1.015)	454127	75.0000	73.1(a)	
	81 Pentachlorobenzene	250	10.825	10.845	(1.020)	913966	75.0000	67.8(a)	
	82 4-Nitrophenol	109	10.950	10.979	(1.032)	268370	75.0000	73.3(a)	
	83 Dibenzofuran	168	10.888	10.897	(1.026)	2543610	75.0000	67.8(a)	
	84 2,4-Dinitrotoluene	165	10.939	10.969	(1.031)	829550	75.0000	67.1(a)	
	85 1-Naphthylamine	143	11.012	11.021	(1.038)	2225953	75.0000	68.8(a)	
	86 2,3,5,6-Tetrachlorophenol	232	11.032	11.052	(1.040)	633113	75.0000	69.4(a)	
	87 2,3,4,6-Tetrachlorophenol	232	11.084	11.104	(1.045)	645640	75.0000	70.8(a)	
	88 2-Naphthylamine	143	11.126	11.145	(1.049)	1938131	75.0000	70.6(a)	
	89 Diethylphthalate	149	11.291	11.311	(1.064)	2435201	75.0000	67.9(a)	
	90 O,O-diethyl-o-2-pyrazinylphos	107	11.395	11.424	(1.074)	409624	75.0000	66.3(a)	
	91 Thionazin	107	11.395	11.424	(1.074)	409624	75.0000	66.3(a)	
	92 Fluorene	166	11.343	11.362	(1.069)	2241680	75.0000	66.4(a)	
	93 4-Chlorophenyl-phenylether	204	11.384	11.393	(1.073)	1167408	75.0000	69.7(a)	
	94 5-Nitro-O-Toluidine	152	11.426	11.456	(1.077)	836709	75.0000	69.7(aQ)	
	95 4-Nitroaniline	138	11.467	11.507	(1.081)	787300	75.0000	76.5(a)	
	96 4,6-Dinitro-2-Methylphenol	198	11.488	11.518	(0.912)	550108	75.0000	74.3(a)	
	97 N-Nitrosodiphenylamine	169	11.560	11.580	(0.918)	1926533	75.0000	70.8(a)	
	98 1,2-Diphenylhydrazine	77	11.591	11.600	(0.920)	1716265	75.0000	66.4(aH)	
	99 Azobenzene	77	11.591	11.600	(0.920)	1716265	75.0000	66.4(aH)	
$	100 2,4,6-Tribromophenol	330	11.685	11.694	(1.101)	324856	75.0000	70.8	
	101 Sulfotepp	97	11.829	11.839	(0.939)	376221	75.0000	71.0(a)	
	102 1,3,5-Trinitrobenzene	213	12.016	12.066	(0.954)	277445	75.0000	70.0(aQ)	
	103 Diallate	86	11.964	11.973	(0.950)	576102	75.0000	71.4(a)	
	104 Phorate	75	11.974	11.983	(0.951)	1122885	75.0000	56.4(a)	
	105 Phenacetin	108	12.078	12.118	(0.959)	1035414	75.0000	62.9(a)	
	106 4-Bromophenyl-phenylether	248	12.036	12.046	(0.956)	662755	75.0000	71.0(a)	
	107 Hexachlorobenzene	284	12.078	12.097	(0.959)	684721	75.0000	69.5(a)	
	108 Dimethoate	87	12.223	12.253	(0.970)	497322	75.0000	56.1(a)	
	109 Atrazine	200	12.337	12.356	(0.979)	384922	75.0000	54.7(a)	
	110 4-Aminobiphenyl	169	12.399	12.418	(0.984)	2031054	75.0000	78.0(a)	
	111 Pentachlorophenol	266	12.378	12.397	(0.983)	521303	75.0000	70.9(a)	
	112 Pentachloronitrobenzene	237	12.378	12.387	(0.983)	323826	75.0000	68.1(a)	
	113 Pronamide	173	12.544	12.563	(0.996)	1166595	75.0000	72.8(a)	
*	114 Phenanthrene-D10	188	12.595	12.615	(1.000)	2088407	40.0000		
	115 Disulfoton	88	12.678	12.698	(1.007)	1104137	75.0000	65.4(a)	
	116 Phenanthrene	178	12.637	12.656	(1.003)	2840063	75.0000	70.5(a)	
	117 Dinoseb	211	12.668	12.687	(1.006)	696178	75.0000	71.8(a)	
	118 Anthracene	178	12.709	12.729	(1.009)	2997962	75.0000	71.2(a)	
	119 Carbazole	167	12.947	12.967	(1.028)	3122409	75.0000	76.2(a)	
	120 Methyl Parathion	109	13.165	13.174	(1.045)	474293	75.0000	55.5(a)	
	121 Di-n-butylphthalate	149	13.496	13.515	(1.071)	3714410	75.0000	74.9(a)	
	122 Ethyl Parathion	291	13.713	13.733	(1.089)	250005	75.0000	68.8(aQ)	
	123 Parathion	291	13.713	13.733	(1.089)	250005	75.0000	68.8(aQ)	
	124 4-Nitroquinoline-1-Oxide	190	13.703	13.712	(1.088)	271319	75.0000	66.6(a)	
	125 Methapyrilene	97	13.858	13.877	(1.100)	685758	75.0000	57.2(a)	
	126 Isodrin	193	14.003	14.012	(1.112)	458405	75.0000	73.1(a)	
	127 Fluoranthene	202	14.231	14.240	(1.130)	3357992	75.0000	77.9(a)	
	128 Pyrene	202	14.520	14.530	(0.893)	3240525	75.0000	71.3(a)	
	129 Benzidine	184	14.458	14.467	(0.889)	897397	75.0000	72.4(a)	
$	130 Terphenyl-D14	244	14.790	14.799	(0.910)	2382175	75.0000	71.4	

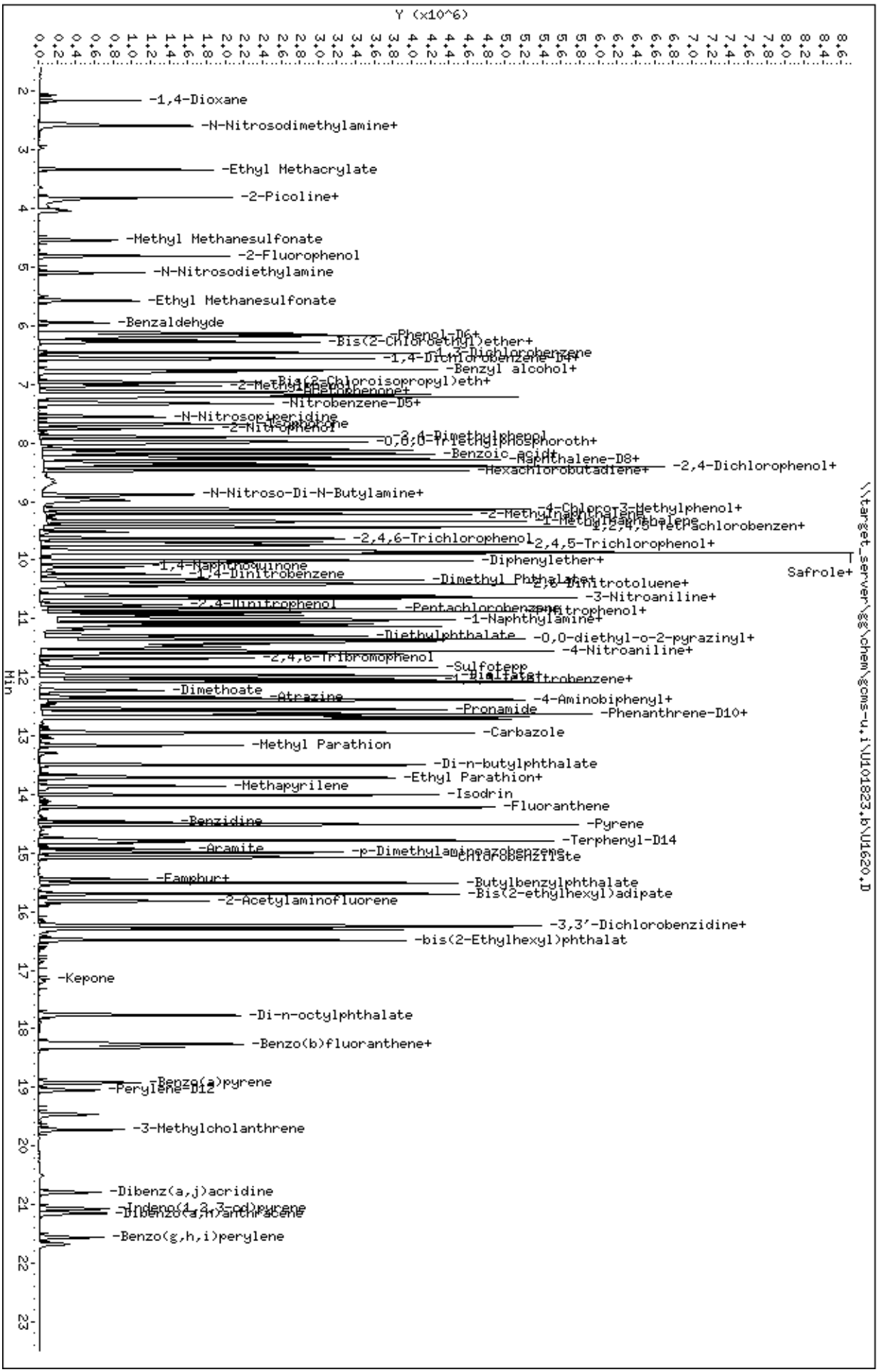
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
131	Aramite	185	14.924	14.933	(0.918)	230496	75.0000	74.8(a)	
132	p-Dimethylaminoazobenzene	225	14.997	15.006	(0.922)	777426	75.0000	76.5(a)	
133	Chlorobenzilate	251	15.079	15.088	(0.927)	1097888	75.0000	74.5(a)	
134	Famphur	218	15.400	15.399	(0.947)	12405	75.0000	(a)	
135	3,3'-Dimethylbenzidine	212	15.442	15.451	(0.950)	531287	75.0000	62.1(a)	
136	Butylbenzylphthalate	149	15.514	15.513	(0.954)	1788237	75.0000	72.9(a)	
137	Bis(2-ethylhexyl)adipate	129	15.700	15.709	(0.966)	1649212	75.0000	75.2(a)	
138	2-Acetylaminofluorene	181	15.825	15.834	(0.973)	739852	75.0000	68.9(a)	
139	3,3'-Dichlorobenzidine	252	16.259	16.258	(1.000)	615052	75.0000	71.2(a)	
140	Benzo(a)anthracene	228	16.239	16.248	(0.999)	2493663	75.0000	68.4(a)	
* 141	Chrysene-D12	240	16.259	16.268	(1.000)	1174887	40.0000		
142	Chrysene	228	16.301	16.310	(1.003)	2259756	75.0000	67.8(a)	
143	bis(2-Ethylhexyl)phthalate	149	16.487	16.496	(1.014)	2416734	75.0000	73.6(a)	
144	Kepone	272	17.160	17.158	(1.055)	2952	75.0000	(aQ)	
145	Di-n-octylphthalate	149	17.770	17.769	(0.933)	2740836	75.0000	76.5(a)	
146	Benzo(b)fluoranthene	252	18.257	18.256	(0.959)	1215362	75.0000	72.0(a)	
148	7,12-Dimethylbenz(A)Anthracen	256	18.267	18.276	(0.959)	639852	75.0000	74.2(a)	
149	Benzo(k)fluoranthene	252	18.319	18.328	(0.962)	1133866	75.0000	69.5(aMH)	M6
150	Benzo(a)pyrene	252	18.919	18.928	(0.993)	910047	75.0000	69.9(a)	
* 151	Perylene-D12	264	19.043	19.053	(1.000)	458667	40.0000		
152	3-Methylcholanthrene	268	19.727	19.736	(1.036)	408157	75.0000	69.6(a)	
153	Dibenz(a,j)acridine	279	20.793	20.802	(1.092)	529437	75.0000	77.2(a)	
154	Indeno(1,2,3-cd)pyrene	276	21.072	21.081	(1.107)	597003	75.0000	76.8(a)	
155	Dibenzo(a,h)anthracene	278	21.155	21.164	(1.111)	587918	75.0000	76.5(a)	
156	Benzo(g,h,i)perylene	276	21.569	21.578	(1.133)	598060	75.0000	77.4(a)	
M 157	Total PAHs	100				36074789	1275.00	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101823,b\U1620,D
Date : 18-OCT-2023 11:45
Client ID:
Sample Info: WG344071-5
Column phase: Rxi-5VOCms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101823,b\U1620,D
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Phenol-D6+
-Bis(2-Chloroethyl)ether+
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-Bis(2-Chloroisopropyl)eth+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-2-Nitrophenol
-2,4-Dimethylphenol
-Benzoic acid+
-Naphthalene-D8+
-Hexachlorobutadiene+
-2,4-Dichlorophenol+
-N-Nitroso-Di-N-Butylamine+
-4-Chloro-3-Methylphenol+
-2-Methylnaphthalene
-1-Methylnaphthalene
-2,4,6-Trichlorophenol
-2,4,5-Trichlorophenol+
-Diphenylether+
Safrole+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-3-Nitroaniline+
-2,4-Dinitrophenol
-Pentachlorophenol+
-1-Naphthylamine+
-Diethylphthalate
-O,O-diethyl-o-2-pyrazinyl+
-4-Nitroaniline+
-2,4,6-Tribromophenol
-Sulfotepp
-Dimethoate
-Atrazine
-4-Aminobiphenyl+
-Pronamide
-Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Famphur+
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-3,3'-Dichlorobenzidine+
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene
-Dibenz(a,h)anthracene
-Benzo(g,h,i)perylene

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Report Date: 16-Nov-2023 15:11

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Lab Smp Id: WG344071-6
Inj Date : 18-OCT-2023 12:16
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344071-6
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 16-Nov-2023 15:09 gcms-u.i   Quant Type: ISTD
Cal Date : 18-OCT-2023 12:16   Cal File: U1621.D
Als bottle: 6   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M))*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.162	2.182	(0.262)	285887	100.000	90.9(a)	
	2 N-Nitrosodimethylamine	42	2.597	2.617	(0.397)	452317	100.000	92.6(a)	
	3 Pyridine	79	2.607	2.627	(0.399)	1407469	100.000	90.5(a)	
	4 Ethyl Methacrylate	69	3.342	3.362	(0.511)	1114031	100.000	91.7(a)	
	5 2-Picoline	93	3.818	3.828	(0.584)	1750339	100.000	92.3(a)	
	6 N-Nitrosomethylethylamine	88	4.056	4.066	(0.620)	741589	100.000	103(a)	
	7 Methyl Methanesulfonate	80	4.564	4.573	(0.698)	828791	100.000	92.6(a)	
$	8 2-Fluorophenol	112	4.812	4.821	(0.736)	1477545	100.000	89.6(a)	
	9 N-Nitrosodiethylamine	102	5.112	5.121	(0.782)	758509	100.000	92.9(a)	
	10 Ethyl Methanesulfonate	79	5.588	5.597	(0.854)	1015126	100.000	88.7(a)	
	11 Benzaldehyde	77	5.951	5.949	(0.910)	223988	100.000	98.3(a)	
$	12 Phenol-D6	99	6.178	6.187	(0.945)	1496965	100.000	90.2(a)	
	13 Aniline	93	6.126	6.136	(0.937)	1934152	100.000	89.9(a)	
	14 Phenol	94	6.199	6.208	(0.948)	1689954	100.000	91.8(a)	
	15 Pentachloroethane	117	6.158	6.156	(0.941)	576530	100.000	86.0(a)	
	16 Bis(2-Chloroethyl)ether	93	6.261	6.260	(0.957)	1255135	100.000	90.2(a)	
	17 2-Chlorophenol	128	6.292	6.291	(0.962)	1559483	100.000	87.1(a)	
	18 1,3-Dichlorobenzene	146	6.468	6.467	(0.989)	1706174	100.000	96.7(a)	
*	19 1,4-Dichlorobenzene-D4	152	6.540	6.550	(1.000)	601335	40.0000		
	20 1,4-Dichlorobenzene	146	6.572	6.570	(1.005)	1611576	100.000	93.4(a)	
	21 Benzyl alcohol	108	6.810	6.819	(1.041)	1042532	100.000	93.1(a)	
	22 1,2-Dichlorobenzene	146	6.758	6.767	(1.033)	1681228	100.000	102(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Report Date: 16-Nov-2023 15:11

EP
3:24 pm, Nov 16, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	23 Bis(2-Chloroisopropyl)ether	45	6.965	6.974	(1.065)	1095457	100.000	86.3(a)	
	24 2,2'-Oxybis(1-chloropropane)	45	6.965	6.974	(1.065)	1095457	100.000	86.3(a)	
	25 2-Methylphenol	108	7.037	7.046	(1.076)	1468127	100.000	93.7(aM)	M9
	26 Acetophenone	105	7.130	7.140	(0.864)	1945034	100.000	88.7(a)	
	27 N-Nitrosopyrrolidine	100	7.172	7.191	(1.097)	646681	100.000	101(a)	
	28 N-Nitrosomorpholine	56	7.203	7.222	(1.101)	431943	100.000	80.5(a)	
	29 N-Nitroso-di-n-propylamine	70	7.193	7.202	(1.100)	727843	100.000	99.1(a)	
	30 3&4-Methylphenol	108	7.224	7.243	(1.104)	1346030	100.000	89.3(aH)	
	31 o-Toluidine	106	7.172	7.181	(1.097)	1872164	100.000	85.4(aH)	
	32 Hexachloroethane	117	7.203	7.212	(1.101)	619255	100.000	96.4(a)	
$	33 Nitrobenzene-D5	82	7.317	7.326	(0.887)	1262353	100.000	88.5	
	34 Nitrobenzene	77	7.348	7.357	(0.891)	1262574	100.000	92.2(a)	
	35 N-Nitrosopiperidine	114	7.565	7.574	(0.917)	813270	100.000	91.5(a)	
	36 Isophorone	82	7.689	7.698	(0.932)	2336752	100.000	89.1(a)	
	37 2-Nitrophenol	139	7.762	7.771	(0.941)	936674	100.000	87.1(a)	
	38 2,4-Dimethylphenol	107	7.907	7.916	(0.959)	1107591	100.000	90.5(a)	
	39 O,O,O-Triethylphosphorothioat	198	7.989	7.999	(0.969)	776850	100.000	89.6(a)	
	40 Bis(2-Chloroethoxy)methane	93	8.010	8.019	(0.971)	1703159	100.000	87.6(a)	
	41 Benzoic acid	105	8.217	8.237	(0.996)	882940	100.000	99.7(aM)	M9
	42 2,4-Dichlorophenol	162	8.414	8.423	(1.020)	1235233	100.000	98.6(a)	
	43 1,2,4-Trichlorobenzene	180	8.186	8.195	(0.992)	1368820	100.000	95.4(a)	
*	44 Naphthalene-D8	136	8.248	8.257	(1.000)	1882162	40.0000		
	45 Naphthalene	128	8.279	8.288	(1.004)	3278993	100.000	95.2(a)	
	46 alpha-Terpineol	59	8.362	8.371	(1.014)	739252	100.000	88.1(a)	
	47 4-Chloroaniline	127	8.403	8.413	(1.019)	1405091	100.000	95.0(a)	
	48 2,6-Dichlorophenol	162	8.414	8.423	(1.020)	1235233	100.000	98.6(a)	
	49 Hexachloropropene	213	8.403	8.402	(1.019)	927484	100.000	98.3(a)	
	50 Hexachlorobutadiene	225	8.476	8.475	(1.028)	798863	100.000	99.9(a)	
	52 N-Nitroso-Di-N-Butylamine	84	8.890	8.909	(1.078)	882532	100.000	97.7(a)	
	53 p-Phenylenediamine	108	8.921	8.930	(1.082)	589317	100.000	58.2(a)	
	54 Caprolactam	113	9.004	9.023	(1.092)	391685	100.000	82.9(a)	
	55 4-Chloro-3-Methylphenol	107	9.138	9.147	(1.108)	1027430	100.000	99.2(a)	
	56 Isosafrole	162	9.138	9.147	(1.108)	1142892	100.000	82.1(a)	
	57 2-Methylnaphthalene	142	9.221	9.220	(1.118)	2514016	100.000	92.8(a)	
	58 1-Methylnaphthalene	142	9.345	9.354	(1.133)	2312939	100.000	93.8(a)	
	59 1,2,4,5-Tetrachlorobenzene	216	9.449	9.448	(0.891)	1248814	100.000	93.9(a)	
	60 Hexachlorocyclopentadiene	237	9.438	9.437	(0.890)	636446	100.000	94.3(a)	
	61 2,4,6-Trichlorophenol	196	9.635	9.644	(0.908)	959446	100.000	87.0(a)	
	62 2,4,5-Trichlorophenol	196	9.708	9.717	(0.915)	1058358	100.000	89.3(a)	
$	63 2-Fluorobiphenyl	172	9.739	9.748	(0.918)	2644234	100.000	98.8	
	64 Safrole	104	9.842	9.851	(0.928)	428289	100.000	78.0(aQ)	
	65 1,1'-Biphenyl	154	9.873	9.882	(0.931)	2293708	100.000	73.3(a)	
	66 2-Chloronaphthalene	127	9.873	9.882	(0.931)	1158564	100.000	79.8(aQM)	M3
	67 1-Chloronaphthalene	127	9.894	9.903	(0.933)	968654	100.000	89.4(aQM)	M3
	68 Diphenylether	170	10.018	10.017	(0.944)	1886390	100.000	99.2(a)	
	69 2-Nitroaniline	65	10.039	10.048	(0.946)	733596	100.000	93.9(a)	
	70 1,4-Naphthoquinone	158	10.122	10.120	(0.954)	571210	100.000	73.4(a)	
	71 1,4-Dinitrobenzene	168	10.246	10.265	(0.966)	564121	100.000	93.6(a)	
	72 Dimethyl Phthalate	163	10.349	10.358	(0.976)	3023742	100.000	87.2(a)	
	73 1,3-Dinitrobenzene	168	10.370	10.379	(0.978)	574443	100.000	91.8(a)	
	74 2,6-Dinitrotoluene	165	10.401	10.410	(0.980)	751851	100.000	89.0(a)	
	75 Acenaphthylene	152	10.422	10.421	(0.982)	3550242	100.000	96.9(a)	
	76 1,2-Dinitrobenzene	168	10.463	10.483	(0.986)	403037	100.000	98.6(a)	
	77 3-Nitroaniline	138	10.629	10.648	(1.002)	907443	100.000	92.8(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Report Date: 16-Nov-2023 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
*	78 Acenaphthene-D10	164	10.608	10.607	(1.000)	1155903	40.0000		
	79 Acenaphthene	153	10.660	10.659	(1.005)	2270400	100.000	95.9(a)	
	80 2,4-Dinitrophenol	184	10.784	10.793	(1.017)	604776	100.000	99.4(a)	
	81 Pentachlorobenzene	250	10.836	10.845	(1.021)	1105455	100.000	83.6(a)	
	82 4-Nitrophenol	109	10.970	10.979	(1.034)	324186	100.000	102(a)	
	83 Dibenzofuran	168	10.898	10.897	(1.027)	3303131	100.000	102(a)	
	84 2,4-Dinitrotoluene	165	10.960	10.969	(1.033)	1159651	100.000	95.7(a)	
	85 1-Naphthylamine	143	11.012	11.021	(1.038)	2807332	100.000	88.4(a)	
	86 2,3,5,6-Tetrachlorophenol	232	11.043	11.052	(1.041)	796887	100.000	89.1(a)	
	87 2,3,4,6-Tetrachlorophenol	232	11.095	11.104	(1.046)	809081	100.000	90.5(a)	
	88 2-Naphthylamine	143	11.136	11.145	(1.050)	2382823	100.000	95.5(a)	
	89 Diethylphthalate	149	11.302	11.311	(1.065)	3026836	100.000	86.1(a)	
	90 O,O-diethyl-o-2-pyrazinylphos	107	11.415	11.424	(1.076)	534722	100.000	88.3(a)	
	91 Thionazin	107	11.415	11.424	(1.076)	534722	100.000	88.3(a)	
	92 Fluorene	166	11.353	11.362	(1.070)	2610163	100.000	78.9(a)	
	93 4-Chlorophenyl-phenylether	204	11.384	11.393	(1.073)	1351369	100.000	82.3(a)	
	94 5-Nitro-O-Toluidine	152	11.446	11.456	(1.079)	1104998	100.000	94.0(a)	
	95 4-Nitroaniline	138	11.488	11.507	(1.083)	989638	100.000	98.1(a)	
	96 4,6-Dinitro-2-Methylphenol	198	11.498	11.518	(0.912)	676372	100.000	91.1(a)	
	97 N-Nitrosodiphenylamine	169	11.571	11.580	(0.918)	2438716	100.000	99.3(a)	
	98 1,2-Diphenylhydrazine	77	11.602	11.600	(0.920)	2426931	100.000	99.1(a)	
	99 Azobenzene	77	11.602	11.600	(0.920)	2426931	100.000	99.1(a)	
$	100 2,4,6-Tribromophenol	330	11.684	11.694	(1.101)	413349	100.000	91.9	
	101 Sulfotepp	97	11.840	11.839	(0.939)	480592	100.000	96.8(a)	
	102 1,3,5-Trinitrobenzene	213	12.057	12.066	(0.956)	376756	100.000	94.6(aQ)	
	103 Diallate	86	11.964	11.973	(0.949)	735014	100.000	97.5(a)	
	104 Phorate	75	11.974	11.983	(0.950)	1350232	100.000	67.5(a)	
	105 Phenacetin	108	12.098	12.118	(0.960)	1374513	100.000	83.2(a)	
	106 4-Bromophenyl-phenylether	248	12.036	12.046	(0.955)	865531	100.000	101(a)	
	107 Hexachlorobenzene	284	12.088	12.097	(0.959)	898911	100.000	96.0(a)	
	108 Dimethoate	87	12.243	12.253	(0.971)	507879	100.000	57.1(a)	
	109 Atrazine	200	12.347	12.356	(0.979)	415222	100.000	58.8(a)	
	110 4-Aminobiphenyl	169	12.409	12.418	(0.984)	2382692	100.000	104(a)	
	111 Pentachlorophenol	266	12.388	12.397	(0.983)	663340	100.000	89.9(a)	
	112 Pentachloronitrobenzene	237	12.378	12.387	(0.982)	421087	100.000	88.2(a)	
	113 Pronamide	173	12.554	12.563	(0.996)	1420289	100.000	94.6(a)	
*	114 Phenanthrene-D10	188	12.606	12.615	(1.000)	2096106	40.0000		
	115 Disulfoton	88	12.688	12.698	(1.007)	1190135	100.000	70.2(a)	
	116 Phenanthrene	178	12.647	12.656	(1.003)	3615433	100.000	97.3(a)	
	117 Dinoseb	211	12.678	12.687	(1.006)	888829	100.000	91.4(a)	
	118 Anthracene	178	12.719	12.729	(1.009)	3733227	100.000	97.6(a)	
	119 Carbazole	167	12.958	12.967	(1.028)	3640251	100.000	97.1(a)	
	120 Methyl Parathion	109	13.165	13.174	(1.044)	517114	100.000	60.3(a)	
	121 Di-n-butylphthalate	149	13.506	13.515	(1.071)	4252273	100.000	92.9(a)	
	122 Ethyl Parathion	291	13.723	13.733	(1.089)	326020	100.000	89.4(a)	
	123 Parathion	291	13.723	13.733	(1.089)	326020	100.000	89.4(a)	
	124 4-Nitroquinoline-1-Oxide	190	13.703	13.712	(1.087)	307699	100.000	75.2(a)	
	125 Methapyrilene	97	13.868	13.877	(1.100)	733524	100.000	61.0(a)	
	126 Isodrin	193	14.013	14.012	(1.112)	572286	100.000	98.6(a)	
	127 Fluoranthene	202	14.231	14.240	(1.129)	3830652	100.000	96.5(a)	
	128 Pyrene	202	14.520	14.530	(0.893)	4133763	100.000	104(a)	
	129 Benzidine	184	14.469	14.467	(0.890)	822229	100.000	75.7(a)	
$	130 Terphenyl-D14	244	14.800	14.799	(0.910)	3063035	100.000	105	
	131 Aramite	185	14.934	14.933	(0.919)	260031	100.000	96.1(a)	

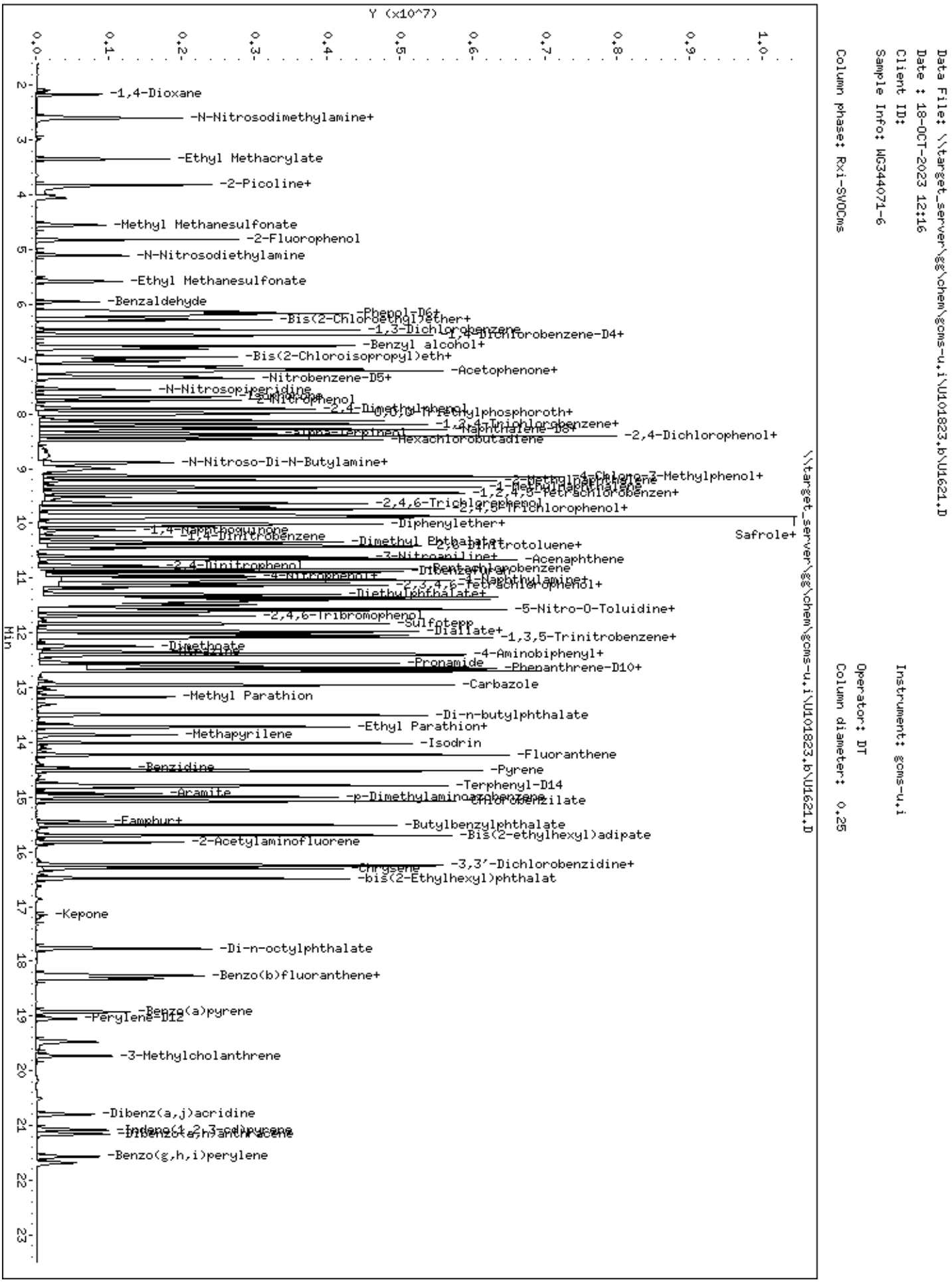
Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Report Date: 16-Nov-2023 15:11

EP
3:24 pm, Nov 16, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
132	p-Dimethylaminoazobenzene	225	14.997	15.006	(0.922)	894284	100.000	100(a)	
133	Chlorobenzilate	251	15.079	15.088	(0.927)	1299801	100.000	101(a)	
134	Famphur	218	15.400	15.399	(0.947)	9384	100.000	(a)	
135	3,3'-Dimethylbenzidine	212	15.442	15.451	(0.950)	510306	100.000	68.0(a)	
136	Butylbenzylphthalate	149	15.514	15.513	(0.954)	2085922	100.000	96.9(a)	
137	Bis(2-ethylhexyl)adipate	129	15.700	15.709	(0.966)	2039488	100.000	106(a)	
138	2-Acetylaminofluorene	181	15.825	15.834	(0.973)	802884	100.000	96.2(a)	
139	3,3'-Dichlorobenzidine	252	16.259	16.258	(1.000)	646671	100.000	95.5(a)	
140	Benzo(a)anthracene	228	16.249	16.248	(0.999)	2769210	100.000	86.7(a)	
* 141	Chrysene-D12	240	16.259	16.268	(1.000)	1030504	40.0000		
142	Chrysene	228	16.311	16.310	(1.003)	2559386	100.000	87.5(a)	
143	bis(2-Ethylhexyl)phthalate	149	16.487	16.496	(1.014)	2785198	100.000	96.7(a)	
144	Kepone	272	17.160	17.158	(1.055)	3405	100.000	(aQ)	
145	Di-n-octylphthalate	149	17.770	17.769	(0.933)	2978674	100.000	100(a)	
146	Benzo(b)fluoranthene	252	18.257	18.256	(0.958)	1364699	100.000	88.2(a)	
148	7,12-Dimethylbenz(A)Anthracen	256	18.278	18.276	(0.959)	719220	100.000	90.8(a)	
149	Benzo(k)fluoranthene	252	18.319	18.328	(0.961)	1316461	100.000	88.0(aMH)	M6
150	Benzo(a)pyrene	252	18.930	18.928	(0.993)	1072990	100.000	89.8(a)	
* 151	Perylene-D12	264	19.054	19.053	(1.000)	420911	40.0000		
152	3-Methylcholanthrene	268	19.737	19.736	(1.036)	502271	100.000	93.4(a)	
153	Dibenz(a,j)acridine	279	20.793	20.802	(1.091)	699658	100.000	100(a)	
154	Indeno(1,2,3-cd)pyrene	276	21.082	21.081	(1.106)	793228	100.000	100(a)	
155	Dibenzo(a,h)anthracene	278	21.155	21.164	(1.110)	780110	100.000	100(a)	
156	Benzo(g,h,i)perylene	276	21.579	21.578	(1.133)	792267	100.000	101(a)	
M 157	Total PAHs	100				43298179	1700.00	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101823,b\U1621.D
Date : 18-OCT-2023 12:16
Client ID:
Sample Info: WG344071-6
Column phase: Rxi-5ViOms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101823,b\U1621.D
Y (x10^7)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Phenol-D6+
-Bis(2-Chloroethyl)ether+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-Bis(2-Chloroisopropyl)eth+
-Acetophenone+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-2-Nitrophenol
-2,4-Dimethylphenol
-1,2,4-Trichlorobenzene+
-Naphthalene-D8+
-2,4-Dichlorophenol+
-Hexachlorobutadiene
-N-Nitroso-Di-N-Butylamine+
-1,2,4,5-Tetrachlorobenzen+
-2,4,6-Trichlorophenol
-Diphenylether+
Safrole+
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-Acenaphthene
-2,4-Dinitrophenol
-4-Nitrophenol+
-Pentachlorobenzene
-1-Naphthylamine+
-2,3,4,6-Tetrachlorophenol+
-Diethylphthalate+
-5-Nitro-O-Toluidine+
-2,4,6-Tribromophenol
-Diallate+
-1,3,5-Trinitrobenzene+
-Dimethoate
-4-Aminobiphenyl+
-Pronamide
-Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite
-Chlorobenzilate
-Famphur+
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-3,3'-Dichlorobenzidine+
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Benzo(g,h,i)perylene

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Report Date: 16-Nov-2023 15:11

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Lab Smp Id: WG344071-7
Inj Date : 18-OCT-2023 12:47
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344071-7
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 16-Nov-2023 15:09 gcms-u.i   Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47   Cal File: U1622.D
Als bottle: 7   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M))*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.182	2.182	(0.264)	349636	125.000	112(a)	
	2 N-Nitrosodimethylamine	42	2.617	2.617	(0.400)	537117	125.000	111(a)	
	3 Pyridine	79	2.627	2.627	(0.401)	1744401	125.000	113(a)	
	4 Ethyl Methacrylate	69	3.362	3.362	(0.513)	1360860	125.000	113(a)	
	5 2-Picoline	93	3.828	3.828	(0.584)	2189310	125.000	117(a)	
	6 N-Nitrosomethylethylamine	88	4.066	4.066	(0.621)	795068	125.000	112(a)	
	7 Methyl Methanesulfonate	80	4.573	4.573	(0.698)	998599	125.000	113(a)	
$	8 2-Fluorophenol	112	4.821	4.821	(0.736)	1841563	125.000	113(a)	
	9 N-Nitrosodiethylamine	102	5.121	5.121	(0.782)	935643	125.000	116(a)	
	10 Ethyl Methanesulfonate	79	5.597	5.597	(0.855)	1349279	125.000	119(a)	
	11 Benzaldehyde	77	5.949	5.949	(0.908)	257785	125.000	125(aA)	
$	12 Phenol-D6	99	6.187	6.187	(0.945)	1913279	125.000	116(a)	
	13 Aniline	93	6.136	6.136	(0.937)	2301733	125.000	108(a)	
	14 Phenol	94	6.208	6.208	(0.948)	2122736	125.000	117(a)	
	15 Pentachloroethane	117	6.156	6.156	(0.940)	724525	125.000	109(a)	
	16 Bis(2-Chloroethyl)ether	93	6.260	6.260	(0.956)	1562015	125.000	113(a)	
	17 2-Chlorophenol	128	6.291	6.291	(0.960)	1962201	125.000	111(a)	
	18 1,3-Dichlorobenzene	146	6.467	6.467	(0.987)	2070382	125.000	127(aA)	
*	19 1,4-Dichlorobenzene-D4	152	6.550	6.550	(1.000)	594934	40.0000		
	20 1,4-Dichlorobenzene	146	6.570	6.570	(1.003)	2036703	125.000	128(aA)	
	21 Benzyl alcohol	108	6.819	6.819	(1.041)	1314057	125.000	119(a)	
	22 1,2-Dichlorobenzene	146	6.767	6.767	(1.033)	1929602	125.000	125(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Report Date: 16-Nov-2023 15:11

EP
3:24 pm, Nov 16, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	23 Bis(2-Chloroisopropyl)ether	45	6.974	6.974	(1.065)	1384010	125.000	110(a)	
	24 2,2'-Oxybis(1-chloropropane)	45	6.974	6.974	(1.065)	1384010	125.000	110(a)	
	25 2-Methylphenol	108	7.046	7.046	(1.076)	1897272	125.000	122(aM)	M9
	26 Acetophenone	105	7.140	7.140	(0.865)	2441778	125.000	112(a)	
	27 N-Nitrosopyrrolidine	100	7.191	7.191	(1.098)	733820	125.000	124(a)	
	28 N-Nitrosomorpholine	56	7.222	7.222	(1.103)	575838	125.000	108(a)	
	29 N-Nitroso-di-n-propylamine	70	7.202	7.202	(1.100)	856319	125.000	126(aA)	
	30 3&4-Methylphenol	108	7.243	7.243	(1.106)	1762237	125.000	118(aH)	
	31 o-Toluidine	106	7.181	7.181	(1.096)	2490765	125.000	115(a)	
	32 Hexachloroethane	117	7.212	7.212	(1.101)	743476	125.000	127(aA)	
$	33 Nitrobenzene-D5	82	7.326	7.326	(0.887)	1592416	125.000	112	
	34 Nitrobenzene	77	7.357	7.357	(0.891)	1553403	125.000	114(a)	
	35 N-Nitrosopiperidine	114	7.574	7.574	(0.917)	997670	125.000	113(a)	
	36 Isophorone	82	7.698	7.698	(0.932)	2935941	125.000	112(a)	
	37 2-Nitrophenol	139	7.771	7.771	(0.941)	1232681	125.000	115(a)	
	38 2,4-Dimethylphenol	107	7.916	7.916	(0.959)	1369089	125.000	112(a)	
	39 O,O,O-Triethylphosphorothioat	198	7.999	7.999	(0.969)	979135	125.000	113(a)	
	40 Bis(2-Chloroethoxy)methane	93	8.019	8.019	(0.971)	2128019	125.000	110(a)	
	41 Benzoic acid	105	8.237	8.237	(0.997)	1095340	125.000	123(aM)	M9
	42 2,4-Dichlorophenol	162	8.423	8.423	(1.020)	1574193	125.000	127(aA)	
	43 1,2,4-Trichlorobenzene	180	8.195	8.195	(0.992)	1723846	125.000	128(aA)	
*	44 Naphthalene-D8	136	8.257	8.257	(1.000)	1874714	40.0000		
	45 Naphthalene	128	8.288	8.288	(1.004)	3985543	125.000	128(aA)	
	46 alpha-Terpineol	59	8.371	8.371	(1.014)	931230	125.000	111(a)	
	47 4-Chloroaniline	127	8.413	8.413	(1.019)	1691535	125.000	127(aA)	
	48 2,6-Dichlorophenol	162	8.423	8.423	(1.020)	1574193	125.000	127(aA)	
	49 Hexachloropropene	213	8.402	8.402	(1.018)	1126847	125.000	127(aA)	
	50 Hexachlorobutadiene	225	8.475	8.475	(1.026)	946627	125.000	126(aA)	
	52 N-Nitroso-Di-N-Butylamine	84	8.909	8.909	(1.079)	1101965	125.000	127(aA)	
	53 p-Phenylenediamine	108	8.930	8.930	(1.081)	576104	125.000	57.1(a)	
	54 Caprolactam	113	9.023	9.023	(1.093)	409402	125.000	87.0(a)	
	55 4-Chloro-3-Methylphenol	107	9.147	9.147	(1.108)	1190445	125.000	124(a)	
	56 Isosafrole	162	9.147	9.147	(1.108)	1402100	125.000	101(a)	
	57 2-Methylnaphthalene	142	9.220	9.220	(1.117)	3247954	125.000	129(aA)	
	58 1-Methylnaphthalene	142	9.354	9.354	(1.133)	2885283	125.000	128(aA)	
	59 1,2,4,5-Tetrachlorobenzene	216	9.448	9.448	(0.891)	1570260	125.000	129(aA)	
	60 Hexachlorocyclopentadiene	237	9.437	9.437	(0.890)	786664	125.000	128(aA)	
	61 2,4,6-Trichlorophenol	196	9.644	9.644	(0.909)	1172797	125.000	108(a)	
	62 2,4,5-Trichlorophenol	196	9.717	9.717	(0.916)	1294040	125.000	111(a)	
$	63 2-Fluorobiphenyl	172	9.748	9.748	(0.919)	3083453	125.000	126(A)	
	64 Safrole	104	9.851	9.851	(0.929)	518766	125.000	96.3(aQ)	
	65 1,1'-Biphenyl	154	9.882	9.882	(0.932)	2736752	125.000	89.1(a)	
	66 2-Chloronaphthalene	127	9.882	9.882	(0.932)	1135347	125.000	79.7(aM)	M6
	67 1-Chloronaphthalene	127	9.903	9.903	(0.934)	1337358	125.000	126(aAQ)	
	68 Diphenylether	170	10.017	10.017	(0.944)	2200917	125.000	126(a)	
	69 2-Nitroaniline	65	10.048	10.048	(0.947)	893749	125.000	116(a)	
	70 1,4-Naphthoquinone	158	10.120	10.120	(0.954)	673082	125.000	88.2(a)	
	71 1,4-Dinitrobenzene	168	10.265	10.265	(0.968)	708341	125.000	120(a)	
	72 Dimethyl Phthalate	163	10.358	10.358	(0.977)	3911797	125.000	115(a)	
	73 1,3-Dinitrobenzene	168	10.379	10.379	(0.979)	751237	125.000	122(a)	
	74 2,6-Dinitrotoluene	165	10.410	10.410	(0.981)	884834	125.000	107(a)	
	75 Acenaphthylene	152	10.421	10.421	(0.982)	4217043	125.000	128(aA)	
	76 1,2-Dinitrobenzene	168	10.483	10.483	(0.988)	494629	125.000	123(a)	
	77 3-Nitroaniline	138	10.648	10.648	(1.004)	1072940	125.000	112(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Report Date: 16-Nov-2023 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
*	78 Acenaphthene-D10	164	10.607	10.607	(1.000)	1134526	40.0000		
	79 Acenaphthene	153	10.659	10.659	(1.005)	2770189	125.000	128(aA)	
	80 2,4-Dinitrophenol	184	10.793	10.793	(1.018)	756360	125.000	127(aA)	
	81 Pentachlorobenzene	250	10.845	10.845	(1.022)	1423859	125.000	110(a)	
	82 4-Nitrophenol	109	10.979	10.979	(1.035)	358178	125.000	123(a)	
	83 Dibenzofuran	168	10.897	10.897	(1.027)	3684732	125.000	124(a)	
	84 2,4-Dinitrotoluene	165	10.969	10.969	(1.034)	1357564	125.000	114(a)	
	85 1-Naphthylamine	143	11.021	11.021	(1.039)	2802677	125.000	90.0(a)	
	86 2,3,5,6-Tetrachlorophenol	232	11.052	11.052	(1.042)	1014276	125.000	116(a)	
	87 2,3,4,6-Tetrachlorophenol	232	11.104	11.104	(1.047)	986035	125.000	112(a)	
	88 2-Naphthylamine	143	11.145	11.145	(1.051)	2888149	125.000	128(aA)	
	89 Diethylphthalate	149	11.311	11.311	(1.066)	3606448	125.000	104(a)	
	90 O,O-diethyl-o-2-pyrazinylphos	107	11.424	11.424	(1.077)	668061	125.000	112(a)	
	91 Thionazin	107	11.424	11.424	(1.077)	668061	125.000	112(a)	
	92 Fluorene	166	11.362	11.362	(1.071)	3360843	125.000	103(a)	
	93 4-Chlorophenyl-phenylether	204	11.393	11.393	(1.074)	1769311	125.000	110(a)	
	94 5-Nitro-O-Toluidine	152	11.456	11.456	(1.080)	1362261	125.000	118(a)	
	95 4-Nitroaniline	138	11.507	11.507	(1.085)	1043130	125.000	105(a)	
	96 4,6-Dinitro-2-Methylphenol	198	11.518	11.518	(0.913)	833236	125.000	113(a)	
	97 N-Nitrosodiphenylamine	169	11.580	11.580	(0.918)	2842354	125.000	126(aA)	
	98 1,2-Diphenylhydrazine	77	11.600	11.600	(0.920)	2965387	125.000	127(aA)	
	99 Azobenzene	77	11.600	11.600	(0.920)	2965387	125.000	127(aA)	
$	100 2,4,6-Tribromophenol	330	11.694	11.694	(1.102)	498355	125.000	113	
	101 Sulfotepp	97	11.839	11.839	(0.938)	587992	125.000	128(aA)	
	102 1,3,5-Trinitrobenzene	213	12.066	12.066	(0.957)	421295	125.000	106(aQ)	
	103 Diallate	86	11.973	11.973	(0.949)	891298	125.000	127(aA)	
	104 Phorate	75	11.983	11.983	(0.950)	1525644	125.000	76.7(a)	
	105 Phenacetin	108	12.118	12.118	(0.961)	1778861	125.000	108(a)	
	106 4-Bromophenyl-phenylether	248	12.046	12.046	(0.955)	1005194	125.000	125(aA)	
	107 Hexachlorobenzene	284	12.097	12.097	(0.959)	1127219	125.000	128(aA)	
	108 Dimethoate	87	12.253	12.253	(0.971)	527612	125.000	59.6(a)	
	109 Atrazine	200	12.356	12.356	(0.979)	409884	125.000	58.3(a)	
	110 4-Aminobiphenyl	169	12.418	12.418	(0.984)	2542021	125.000	119(a)	
	111 Pentachlorophenol	266	12.397	12.397	(0.983)	806449	125.000	110(a)	
	112 Pentachloronitrobenzene	237	12.387	12.387	(0.982)	517628	125.000	109(a)	
	113 Pronamide	173	12.563	12.563	(0.996)	1750913	125.000	128(aA)	
*	114 Phenanthrene-D10	188	12.615	12.615	(1.000)	2085150	40.0000		
	115 Disulfoton	88	12.698	12.698	(1.007)	1463338	125.000	86.7(a)	
	116 Phenanthrene	178	12.656	12.656	(1.003)	4363945	125.000	128(aA)	
	117 Dinoseb	211	12.687	12.687	(1.006)	1068259	125.000	110(aA)	
	118 Anthracene	178	12.729	12.729	(1.009)	4425134	125.000	127(aA)	
	119 Carbazole	167	12.967	12.967	(1.028)	4227915	125.000	126(aA)	
	120 Methyl Parathion	109	13.174	13.174	(1.044)	517315	125.000	60.6(a)	
	121 Di-n-butylphthalate	149	13.515	13.515	(1.071)	5123259	125.000	128(aA)	
	122 Ethyl Parathion	291	13.733	13.733	(1.089)	401305	125.000	111(a)	
	123 Parathion	291	13.733	13.733	(1.089)	401305	125.000	111(a)	
	124 4-Nitroquinoline-1-Oxide	190	13.712	13.712	(1.087)	310319	125.000	76.3(a)	
	125 Methapyrilene	97	13.877	13.877	(1.100)	706352	125.000	59.0(a)	
	126 Isodrin	193	14.012	14.012	(1.111)	677650	125.000	126(aA)	
	127 Fluoranthene	202	14.240	14.240	(1.129)	4437329	125.000	125(a)	
	128 Pyrene	202	14.530	14.530	(0.893)	4365348	125.000	143(aA)	
	129 Benzidine	184	14.467	14.467	(0.889)	565220	125.000	67.9(a)	
$	130 Terphenyl-D14	244	14.799	14.799	(0.910)	3287010	125.000	146(A)	
	131 Aramite	185	14.933	14.933	(0.918)	278391	125.000	134(aA)	

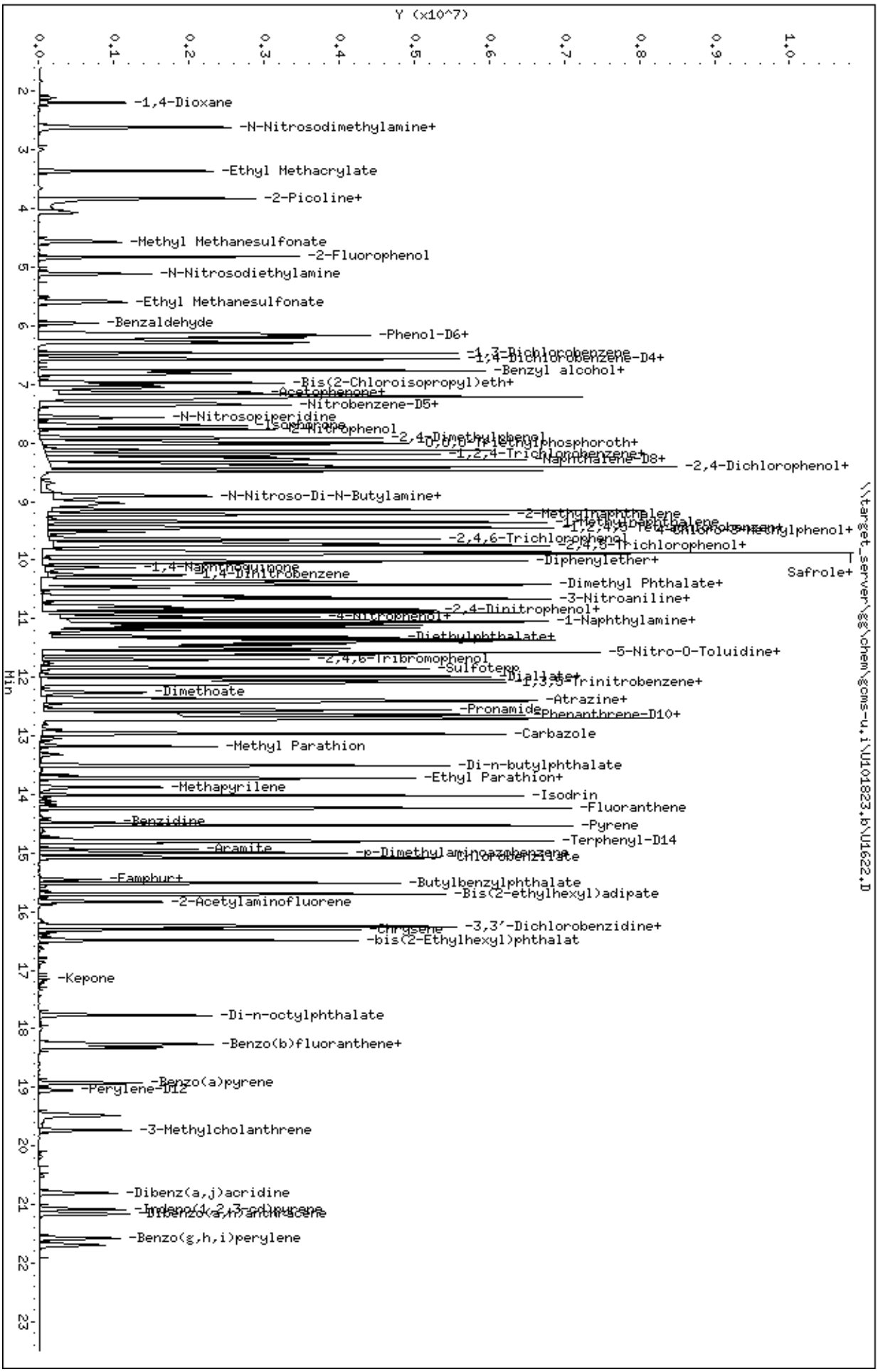
Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Report Date: 16-Nov-2023 15:11

EP
3:24 pm, Nov 16, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
132	p-Dimethylaminoazobenzene	225	15.006	15.006	(0.922)	1062876	125.000	156(aA)	
133	Chlorobenzilate	251	15.088	15.088	(0.927)	1536925	125.000	155(aA)	
134	Famphur	218	15.399	15.399	(0.947)	4139	125.000	(aQ)	
135	3,3'-Dimethylbenzidine	212	15.451	15.451	(0.950)	413100	125.000	71.8(a)	
136	Butylbenzylphthalate	149	15.513	15.513	(0.954)	2166681	125.000	131(aA)	
137	Bis(2-ethylhexyl)adipate	129	15.709	15.709	(0.966)	2254405	125.000	153(aA)	
138	2-Acetylaminofluorene	181	15.834	15.834	(0.973)	737350	125.000	129(aA)	
139	3,3'-Dichlorobenzidine	252	16.258	16.258	(0.999)	591806	125.000	128(aA)	
140	Benzo(a)anthracene	228	16.248	16.248	(0.999)	2842739	125.000	116(a)	
* 141	Chrysene-D12	240	16.268	16.268	(1.000)	789776	40.0000		
142	Chrysene	228	16.310	16.310	(1.003)	2432571	125.000	108(a)	
143	bis(2-Ethylhexyl)phthalate	149	16.496	16.496	(1.014)	2778125	125.000	126(aA)	
144	Kepone	272	17.158	17.158	(1.055)	2879	125.000	(a)	
145	Di-n-octylphthalate	149	17.769	17.769	(0.933)	2702035	125.000	122(a)	
146	Benzo(b)fluoranthene	252	18.256	18.256	(0.958)	1329346	125.000	107(a)	
148	7,12-Dimethylbenz(A)Anthracen	256	18.276	18.276	(0.959)	681138	125.000	107(a)	
149	Benzo(k)fluoranthene	252	18.328	18.328	(0.962)	1314504	125.000	109(aMH)	M6
150	Benzo(a)pyrene	252	18.928	18.928	(0.993)	1112919	125.000	116(a)	
* 151	Perylene-D12	264	19.053	19.053	(1.000)	338627	40.0000		
152	3-Methylcholanthrene	268	19.736	19.736	(1.036)	566766	125.000	131(aA)	
153	Dibenz(a,j)acridine	279	20.802	20.802	(1.092)	853419	125.000	124(a)	
154	Indeno(1,2,3-cd)pyrene	276	21.081	21.081	(1.106)	946889	125.000	124(a)	
155	Dibenzo(a,h)anthracene	278	21.164	21.164	(1.111)	926661	125.000	124(a)	
156	Benzo(g,h,i)perylene	276	21.578	21.578	(1.133)	962201	125.000	124(a)	
M 157	Total PAHs	100				49926441	2550.00	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Date : 18-OCT-2023 12:47
Client ID:
Sample Info: WG344071-7
Column phase: Rxi-5VOCms
Instrument: gcms-u.i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Y (x10^7)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Phenol-D6+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-Bis(2-Chloroisopropyl)eth+
-Acetophenone+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-Naphthalene-D8+
-2,4-Dichlorophenol+
-N-Nitroso-Di-N-Butylamine+
-2-Methylnaphthalene
-2,4,6-Trichlorophenol+
-Diphenylether+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-3-Nitroaniline+
-2,4-Dinitrophenol+
-1-Naphthylamine+
-Diethylphthalate+
-5-Nitro-O-Toluidine+
-2,4,6-Tribromophenol
-Sulfotepp
-Diallate+
-1,3,5-Trinitrobenzene+
-Dimethoate
-Atrazine+
-Pronamide
-Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Famphur+
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-3,3'-Dichlorobenzidine+
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Benzo(g,h,i)perylene
Safrole+

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1623.D
Report Date: 20-Oct-2023 13:38

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1623.D
Lab Smp Id: WG344071-8
Inj Date : 18-OCT-2023 13:17
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344071-8
Misc Info : WG344071,WG344071,WG344071-4,SQ5205-1
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 19-Oct-2023 07:58 dtasker   Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47   Cal File: U1622.D
Als bottle: 8   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: TECHN0VA-01

Concentration Formula: Amt * DF * Uf*(Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

DT
9:46 am, Oct 30, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
1	1,4-Dioxane	58	2.121	2.182	(0.258)	129895	48.2181	48.2	
2	N-Nitrosodimethylamine	42	2.535	2.617	(0.388)	225111	52.7719	52.8	
3	Pyridine	79	2.566	2.627	(0.392)	718652	52.9044	52.9(M)	M6
5	2-Picoline	93	3.798	3.828	(0.581)	822472	49.6767	49.7	
6	N-Nitrosomethylethylamine	88	4.026	4.066	(0.615)	280046	44.6879	44.7	
7	Methyl Methanesulfonate	80	4.522	4.573	(0.691)	357165	45.6899	45.7	
9	N-Nitrosodiethylamine	102	5.081	5.122	(0.777)	337353	47.3242	47.3	
10	Ethyl Methanesulfonate	79	5.557	5.598	(0.850)	448581	44.9043	44.9	
11	Benzaldehyde	77	5.940	5.950	(0.908)	76018	24.6943	24.7(R)	
13	Aniline	93	6.116	6.136	(0.935)	846948	45.0628	45.1	
14	Phenol	94	6.189	6.209	(0.946)	851390	52.9826	53.0	
16	Bis(2-Chloroethyl)ether	93	6.240	6.260	(0.954)	604414	49.7445	49.7	
17	2-Chlorophenol	128	6.282	6.291	(0.960)	762472	48.7655	48.8	
18	1,3-Dichlorobenzene	146	6.458	6.467	(0.987)	888052	50.2529	50.2	
* 19	1,4-Dichlorobenzene-D4	152	6.541	6.550	(1.000)	525151	40.0000		
20	1,4-Dichlorobenzene	146	6.561	6.571	(1.003)	855415	50.9467	50.9	
21	Benzyl alcohol	108	6.779	6.819	(1.036)	442154	45.2250	45.2	
22	1,2-Dichlorobenzene	146	6.758	6.767	(1.033)	844427	49.1114	49.1	
23	Bis(2-Chloroisopropyl)ether	45	6.965	6.974	(1.065)	482274	43.4953	43.5	
24	2,2'-Oxybis(1-chloropropane)	45	6.965	6.974	(1.065)	418225	37.7335	37.7(R)	
25	2-Methylphenol	108	7.006	7.047	(1.071)	624511	45.6281	45.6	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1623.D
Report Date: 20-Oct-2023 13:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	26 Acetophenone	105	7.120	7.140	(0.864)	1657321	88.2691	88.3	
	27 N-Nitrosopyrrolidine	100	7.110	7.192	(1.087)	304637	42.5145	42.5(Q)	
	28 N-Nitrosomorpholine	56	7.162	7.223	(1.095)	213960	45.6414	45.6	
	29 N-Nitroso-di-n-propylamine	70	7.162	7.202	(1.095)	345371	45.1496	45.1(Q)	
	30 3&4-Methylphenol	108	7.193	7.244	(1.100)	589956	44.8292	44.8	
	31 o-Toluidine	106	7.162	7.181	(1.095)	817551	42.7305	42.7	
	32 Hexachloroethane	117	7.203	7.212	(1.101)	324707	48.8989	48.9	
	34 Nitrobenzene	77	7.327	7.357	(0.889)	622049	53.0458	53.0	
	35 N-Nitrosopiperidine	114	7.534	7.575	(0.915)	340855	44.7991	44.8	
	36 Isophorone	82	7.669	7.699	(0.931)	939640	41.8526	41.8	
	37 2-Nitrophenol	139	7.752	7.771	(0.941)	461225	50.0968	50.1	
	38 2,4-Dimethylphenol	107	7.886	7.916	(0.957)	612444	58.4407	58.4	
	39 O,O,O-Triethylphosphorothioat	198	7.969	7.999	(0.967)	353206	47.5917	47.6	
	40 Bis(2-Chloroethoxy)methane	93	8.000	8.020	(0.971)	883844	53.0999	53.1	
	41 Benzoic acid	105	8.124	8.237	(0.986)	394996	53.3180	53.3(RH)	
	42 2,4-Dichlorophenol	162	8.393	8.423	(1.019)	558315	51.3588	51.4	
	43 1,2,4-Trichlorobenzene	180	8.176	8.196	(0.992)	678869	49.8873	49.9	
*	44 Naphthalene-D8	136	8.238	8.257	(1.000)	1611517	40.0000		
	45 Naphthalene	128	8.269	8.289	(1.004)	1789427	50.5020	50.5	
	46 alpha-Terpineol	59	8.342	8.372	(1.013)	346278	48.1862	48.2	
	47 4-Chloroaniline	127	8.383	8.413	(1.018)	571129	32.9938	33.0(R)	
	48 2,6-Dichlorophenol	162	8.393	8.423	(1.019)	555855	51.1292	51.1	
	49 Hexachloropropene	213	8.393	8.403	(1.019)	472312	52.2030	52.2	
	50 Hexachlorobutadiene	225	8.466	8.475	(1.028)	401711	51.2889	51.3	
	52 N-Nitroso-Di-N-Butylamine	84	8.869	8.910	(1.077)	388850	46.5777	46.6(H)	
	54 Caprolactam	113	8.921	9.024	(1.083)	206299	50.9826	51.0(H)	
	55 4-Chloro-3-Methylphenol	107	9.107	9.148	(1.106)	519619	47.0707	47.1	
	56 Isosafrole	162	9.128	9.148	(1.108)	519366	43.5991	43.6	
	57 2-Methylnaphthalene	142	9.211	9.220	(1.118)	1288348	50.4009	50.4	
	58 1-Methylnaphthalene	142	9.335	9.355	(1.133)	1170853	47.4578	47.4	
	59 1,2,4,5-Tetrachlorobenzene	216	9.439	9.448	(0.891)	1044041	98.6524	98.6	
	60 Hexachlorocyclopentadiene	237	9.428	9.438	(0.890)	351833	58.5379	58.5	
	61 2,4,6-Trichlorophenol	196	9.625	9.645	(0.908)	449973	50.7958	50.8	
	62 2,4,5-Trichlorophenol	196	9.697	9.717	(0.915)	474896	49.8649	49.9	
	64 Safrole	104	9.822	9.852	(0.927)	200866	45.5600	45.6(Q)	
	65 1,1'-Biphenyl	154	9.853	9.883	(0.930)	1246507	49.5824	49.6	
	66 2-Chloronaphthalene	127	9.853	9.883	(0.930)	635838	54.5365	54.5(QH)	
	67 1-Chloronaphthalene	127	9.884	9.904	(0.933)	361641	41.5284	41.5(Q)	
	69 2-Nitroaniline	65	10.029	10.048	(0.946)	251138	40.0026	40.0(Q)	
	70 1,4-Naphthoquinone	158	10.111	10.121	(0.954)	481655	77.0663	77.1(R)	
	72 Dimethyl Phthalate	163	10.318	10.359	(0.974)	1238933	44.4642	44.5	
	73 1,3-Dinitrobenzene	168	10.329	10.380	(0.975)	238044	47.3594	47.4	
	74 2,6-Dinitrotoluene	165	10.381	10.411	(0.979)	364656	53.7288	53.7(Q)	
	75 Acenaphthylene	152	10.401	10.421	(0.981)	1610603	45.0633	45.1	
	77 3-Nitroaniline	138	10.588	10.649	(0.999)	341086	43.4128	43.4	
*	78 Acenaphthene-D10	164	10.598	10.607	(1.000)	928722	40.0000		
	79 Acenaphthene	153	10.639	10.659	(1.004)	1065044	48.8036	48.8	
	80 2,4-Dinitrophenol	184	10.732	10.794	(1.013)	222231	45.4481	45.4	
	81 Pentachlorobenzene	250	10.826	10.845	(1.021)	552221	51.9928	52.0	
	82 4-Nitrophenol	109	10.929	10.980	(1.031)	171917	53.5768	53.6(Q)	
	83 Dibenzofuran	168	10.877	10.897	(1.026)	1550343	47.3394	47.3	
	84 2,4-Dinitrotoluene	165	10.908	10.970	(1.029)	449471	46.1591	46.2	
	85 1-Naphthylamine	143	10.991	11.021	(1.037)	769177	30.1642	30.2(R)	
	87 2,3,4,6-Tetrachlorophenol	232	11.074	11.104	(1.045)	345533	48.0982	48.1	

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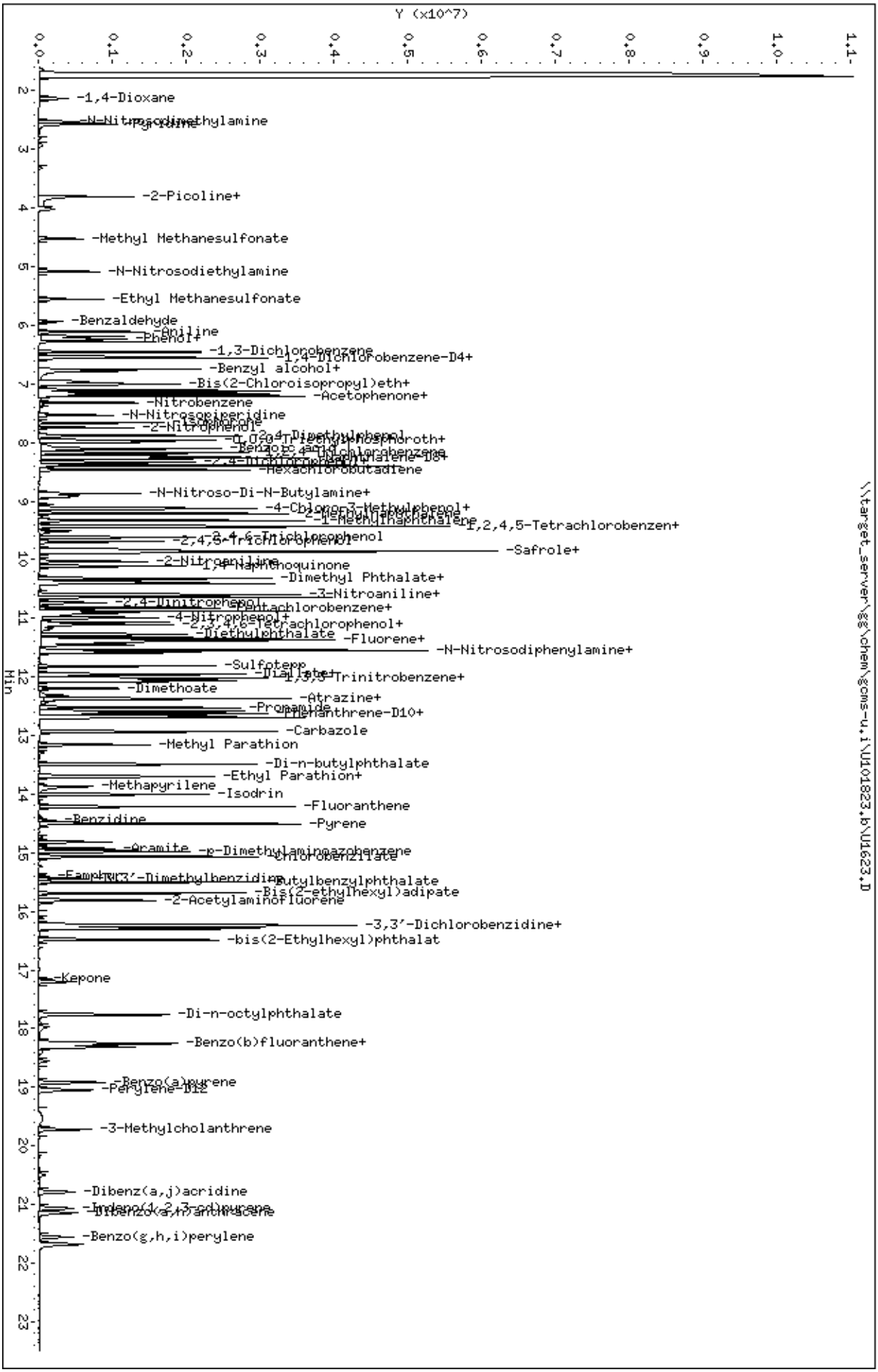
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
88	2-Naphthylamine	143	11.105	11.146	(1.048)	787030	30.9926	31.0(R)	
89	Diethylphthalate	149	11.281	11.311	(1.064)	1367086	48.4281	48.4	
90	O,O-diethyl-o-2-pyrazinylphos	107	11.374	11.425	(1.073)	231924	47.6870	47.7(H)	
91	Thionazin	107	11.374	11.425	(1.073)	231924	47.6870	47.7(H)	
92	Fluorene	166	11.333	11.363	(1.069)	1293208	48.6450	48.6	
93	4-Chlorophenyl-phenylether	204	11.374	11.394	(1.073)	640310	48.5537	48.6	
94	5-Nitro-O-Toluidine	152	11.405	11.456	(1.076)	447704	47.3805	47.4	
95	4-Nitroaniline	138	11.426	11.508	(1.078)	336753	41.5629	41.6	
96	4,6-Dinitro-2-Methylphenol	198	11.457	11.518	(0.910)	278761	48.7239	48.7	
97	N-Nitrosodiphenylamine	169	11.550	11.580	(0.918)	1807338	93.8026	93.8	
98	1,2-Diphenylhydrazine	77	11.581	11.601	(0.920)	985328	45.5128	45.5	
99	Azobenzene	77	11.581	11.601	(0.920)	985328	45.5128	45.5	
101	Sulfotepp	97	11.819	11.839	(0.939)	207240	46.7510	46.8	
102	1,3,5-Trinitrobenzene	213	11.995	12.067	(0.953)	152886	49.8545	49.8	
103	Diallate	86	11.954	11.974	(0.950)	357245	54.1975	54.2	
104	Phorate	75	11.964	11.984	(0.951)	539701	35.0309	35.0(RH)	
105	Phenacetin	108	12.037	12.118	(0.956)	623556	49.0286	49.0	
106	4-Bromophenyl-phenylether	248	12.026	12.046	(0.956)	376459	47.8467	47.8	
107	Hexachlorobenzene	284	12.068	12.098	(0.959)	381903	47.5970	47.6	
108	Dimethoate	87	12.202	12.253	(0.970)	377287	55.0814	55.1	
109	Atrazine	200	12.368	12.357	(0.983)	50885	9.34906	9.35(aQR)	
110	4-Aminobiphenyl	169	12.378	12.419	(0.984)	802840	33.9848	34.0(R)	
111	Pentachlorophenol	266	12.368	12.398	(0.983)	301035	52.9616	53.0	
112	Pentachloronitrobenzene	237	12.368	12.388	(0.983)	173920	47.2778	47.3	
113	Pronamide	173	12.523	12.564	(0.995)	634155	46.1205	46.1	
* 114	Phenanthrene-D10	188	12.585	12.615	(1.000)	1614729	40.0000		
115	Disulfoton	88	12.668	12.698	(1.007)	601875	46.0748	46.1	
116	Phenanthrene	178	12.626	12.657	(1.003)	1751016	52.4522	52.4	
117	Dinoseb	211	12.647	12.688	(1.005)	404916	54.0345	54.0	
118	Anthracene	178	12.689	12.729	(1.008)	1707742	46.5089	46.5	
119	Carbazole	167	12.937	12.967	(1.028)	1704947	44.2872	44.3	
120	Methyl Parathion	109	13.154	13.174	(1.045)	336927	51.0076	51.0	
121	Di-n-butylphthalate	149	13.496	13.516	(1.072)	2290701	52.2714	52.3	
122	Ethyl Parathion	291	13.703	13.733	(1.089)	140108	49.8811	49.9(Q)	
123	Parathion	291	13.703	13.733	(1.089)	140108	49.8811	49.9(Q)	
124	4-Nitroquinoline-1-Oxide	190	13.682	13.712	(1.087)	154956	49.1975	49.2	
125	Methapyrilene	97	13.869	13.878	(1.102)	378583	40.8359	40.8	
126	Isodrin	193	14.003	14.013	(1.113)	235109	42.8624	42.9	
127	Fluoranthene	202	14.210	14.240	(1.129)	1911300	47.4686	47.5	
128	Pyrene	202	14.510	14.530	(0.893)	1969313	44.7430	44.7	
129	Benzidine	184	14.448	14.468	(0.889)	234395	19.5338	19.5(aR)	
131	Aramite	185	14.924	14.934	(0.918)	155213	51.9650	52.0	
132	p-Dimethylaminoazobenzene	225	14.986	15.006	(0.922)	439748	44.6946	44.7	
133	Chlorobenzilate	251	15.069	15.089	(0.927)	639332	44.8058	44.8	
134	Famphur	218	15.390	15.399	(0.947)	60743		(aQR)	
135	3,3'-Dimethylbenzidine	212	15.442	15.451	(0.950)	325894	39.3108	39.3(R)	
136	Butylbenzylphthalate	149	15.504	15.513	(0.954)	1101251	46.3228	46.3	
137	Bis(2-ethylhexyl)adipate	129	15.690	15.710	(0.966)	901069	42.4337	42.4	
138	2-Acetylaminofluorene	181	15.814	15.834	(0.973)	583314	47.5578	47.6	
139	3,3'-Dichlorobenzidine	252	16.249	16.259	(1.000)	450515	45.9086	45.9	
140	Benzo(a)anthracene	228	16.228	16.248	(0.999)	1687291	47.8200	47.8	
* 141	Chrysene-D12	240	16.249	16.268	(1.000)	1138066	40.0000		
142	Chrysene	228	16.290	16.309	(1.003)	1599673	49.5229	49.5	
143	bis(2-Ethylhexyl)phthalate	149	16.487	16.497	(1.015)	1540227	48.4254	48.4	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1623.D
Report Date: 20-Oct-2023 13:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
144	Kepone	272	17.150	17.158	(1.055)	2430		(aQR)	
145	Di-n-octylphthalate	149	17.760	17.770	(0.933)	2180336	54.5621	54.6	
146	Benzo(b)fluoranthene	252	18.247	18.256	(0.958)	998910	49.4573	49.4	
148	7,12-Dimethylbenz(A)Anthracen	256	18.267	18.277	(0.959)	540559	52.3315	52.3	
149	Benzo(k)fluoranthene	252	18.309	18.329	(0.961)	985286	50.4698	50.5(H)	
150	Benzo(a)pyrene	252	18.919	18.929	(0.993)	718641	46.1187	46.1	
* 151	Perylene-D12	264	19.044	19.053	(1.000)	549234	40.0000		
152	3-Methylcholanthrene	268	19.727	19.736	(1.036)	330961	47.1635	47.2	
153	Dibenz(a,j)acridine	279	20.793	20.802	(1.092)	437895	56.9514	57.0	
154	Indeno(1,2,3-cd)pyrene	276	21.072	21.082	(1.107)	386611	45.6570	45.6	
155	Dibenzo(a,h)anthracene	278	21.145	21.164	(1.110)	386506	45.9708	46.0	
156	Benzo(g,h,i)perylene	276	21.559	21.578	(1.132)	395654	46.9910	47.0	
M 157	Total PAHs	100				22715426	864.053	864	

QC Flag Legend

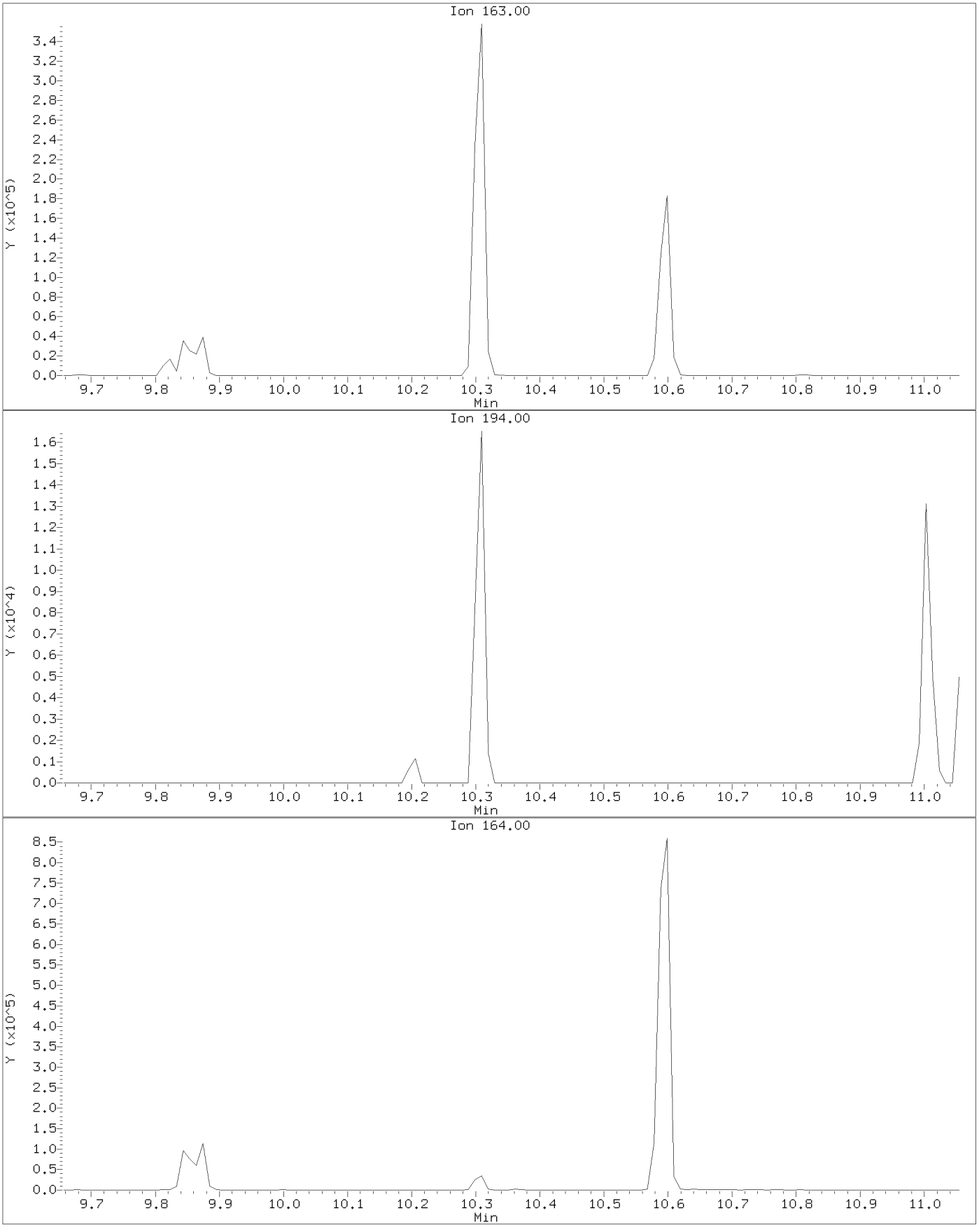
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101823,b\U1623.D
Date : 18-OCT-2023 13:17
Client ID:
Sample Info: WG344071-8
Volume Injected (uL): 1.0
Column phase: Rxi-5ViOCms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101823,b\U1623.D
Y (x10^7)
Min
-1,4-Dioxane
-2-Picoline+
-Methyl Methanesulfonate
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Aniline
-Phenol+
-1,3-Dichlorobenzene
-Benzyl alcohol+
-Acetophenone+
-Nitrobenzene
-N-Nitrosopiperidine
-2-Nitrophenol
-Hexachlorobutadiene
-N-Nitroso-Di-N-Butylamine+
-4-Chloro-3-Methylphenol+
-2,4,5-Trichlorophenol
-Safrole+
-2-Nitroaniline
-Dimethyl Phthalate+
-3-Nitroaniline+
-4-Nitrophenol+
-Diethylphthalate
-Fluorene+
-N-Nitrosodiphenylamine+
-Dimethoate
-Atrazine+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Isodrin
-Fluoranthene
-Pyrene
-Chlorobenzilate
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-3,3'-Dichlorobenzidine+
-bis(2-Ethylhexyl)phthalat
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Benzo(g,h,i)perylene

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1619.D
Injection Date: 18-OCT-2023 11:14
Instrument: gcms-u.i
Client Sample ID:

Compound: Dimethyl Phthalate
CAS Number: 131-11-3

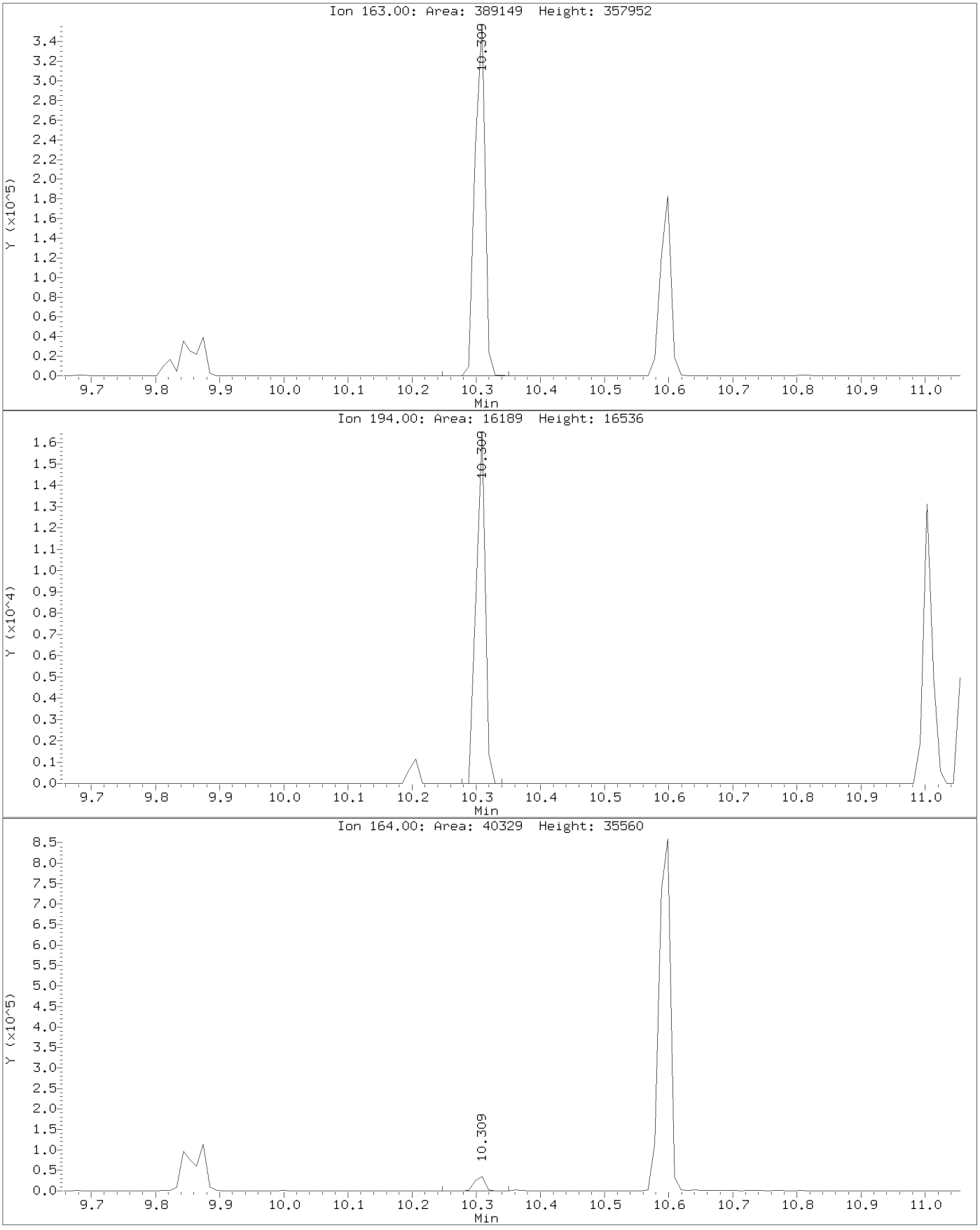
BEFORE MANUAL INTEGRATION



AFTER MANUAL INTEGRATION

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1619.D
Injection Date: 18-OCT-2023 11:14
Instrument: gcms-u.i
Client Sample ID:

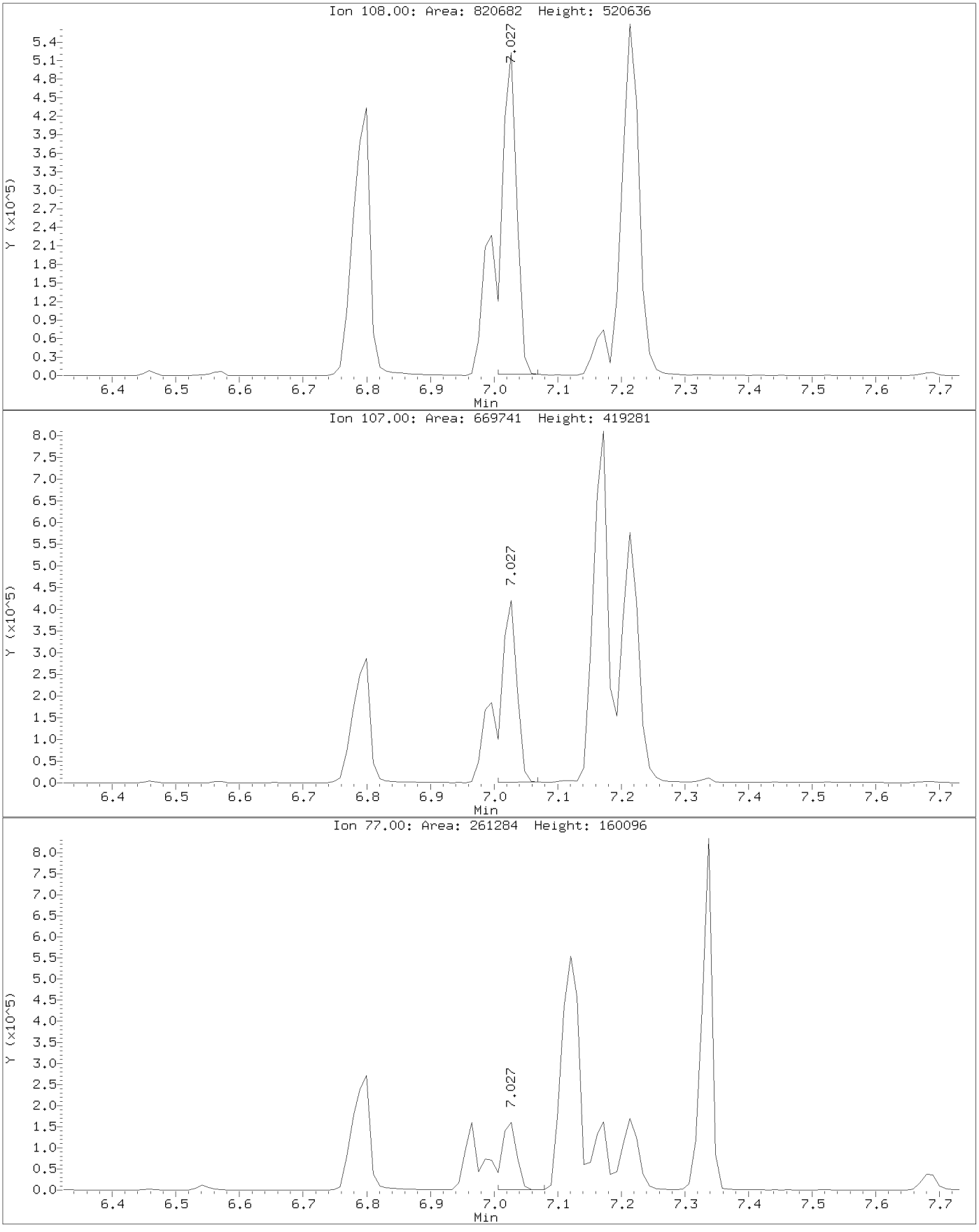
Compound: Dimethyl Phthalate
CAS Number: 131-11-3



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1620.D
Injection Date: 18-OCT-2023 11:45
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

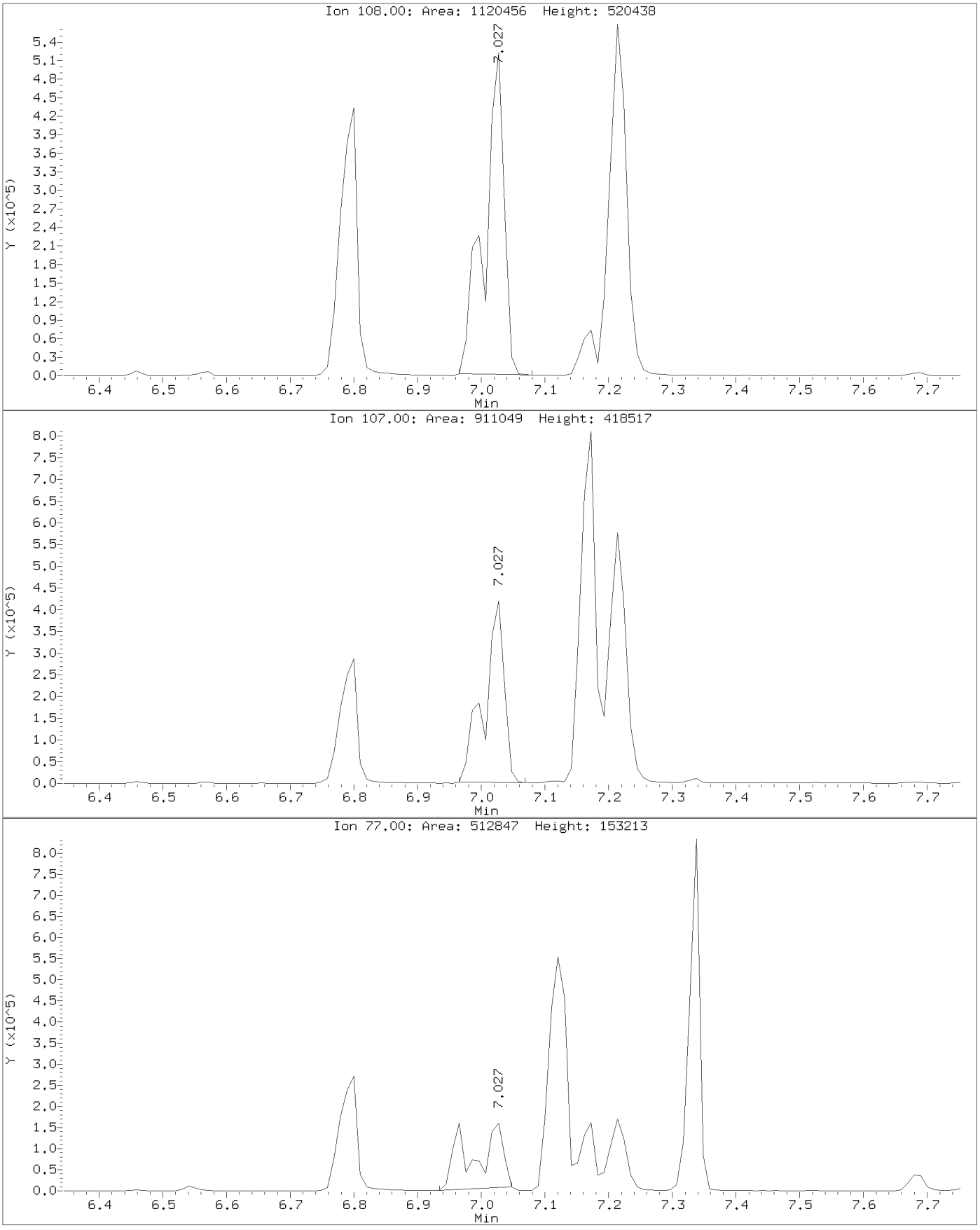
BEFORE MANUAL INTEGRATION



AFTER MANUAL INTEGRATION

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1620.D
Injection Date: 18-OCT-2023 11:45
Instrument: gcms-u.i
Client Sample ID:

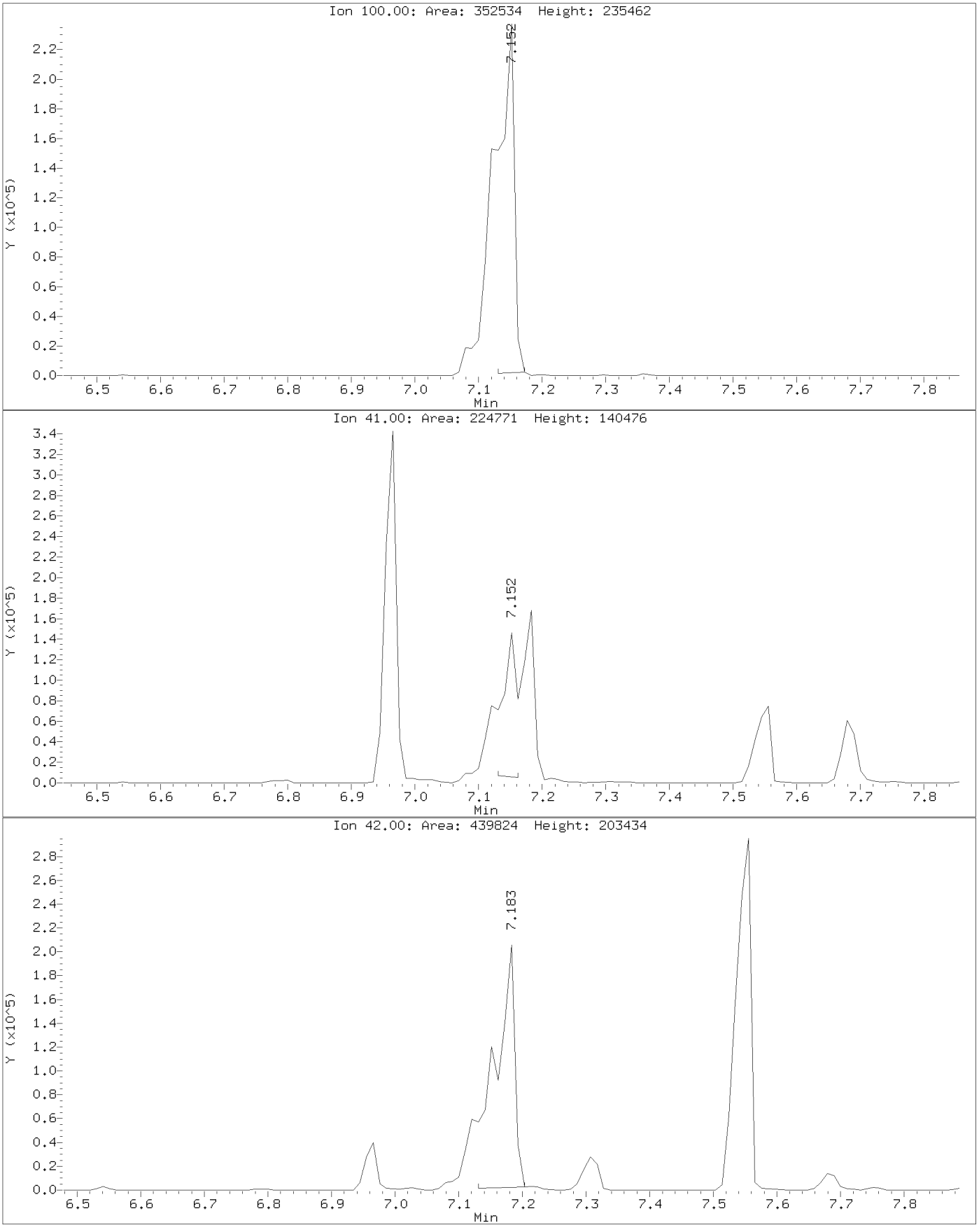
Compound: 2-Methylphenol
CAS Number: 95-48-7



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1620.D
Injection Date: 18-OCT-2023 11:45
Instrument: gcms-u.i
Client Sample ID:

Compound: N-Nitrosopyrrolidine
CAS Number: 930-55-2

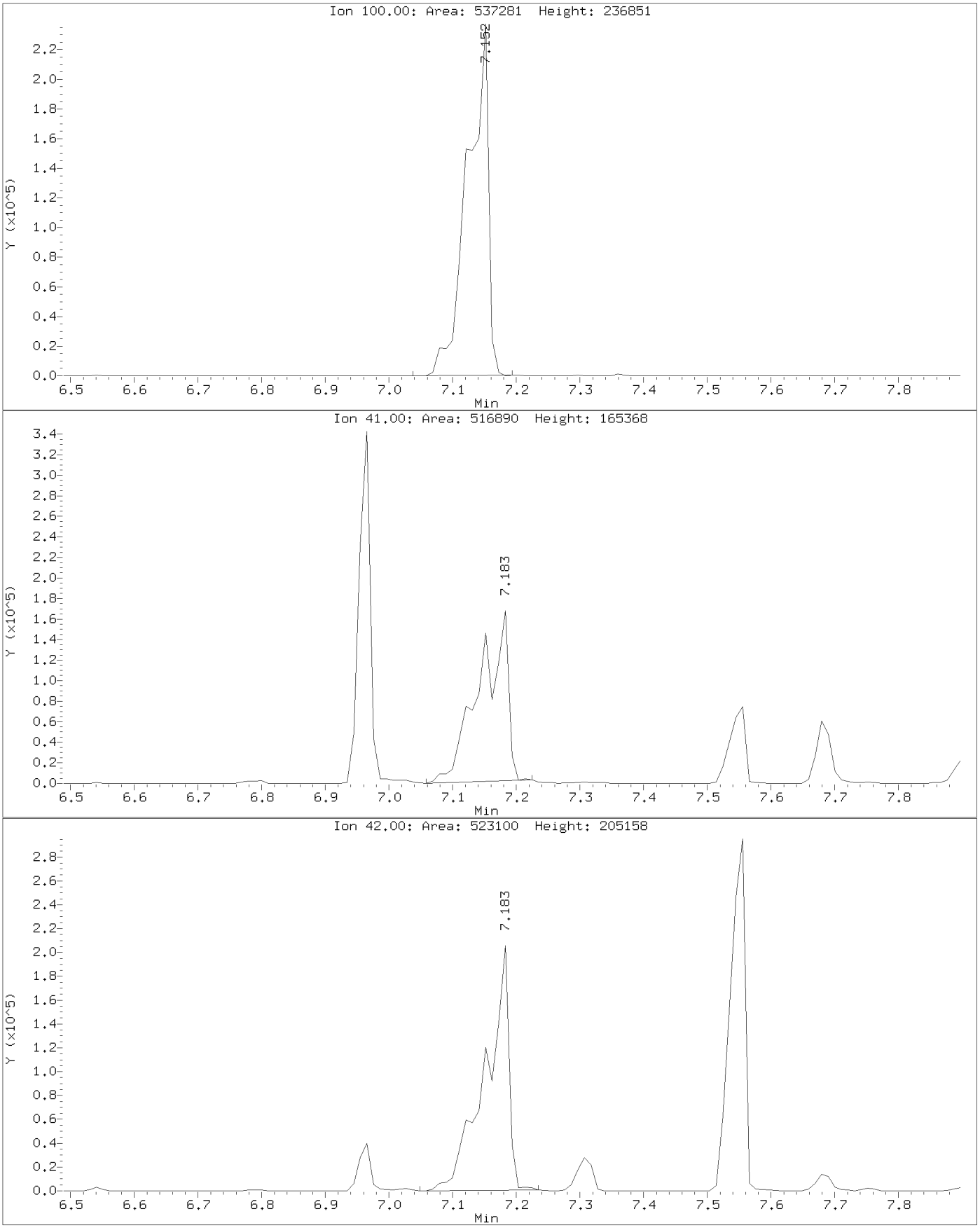
BEFORE MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1620.D
Injection Date: 18-OCT-2023 11:45
Instrument: gcms-u.i
Client Sample ID:

Compound: N-Nitrosopyrrolidine
CAS Number: 930-55-2

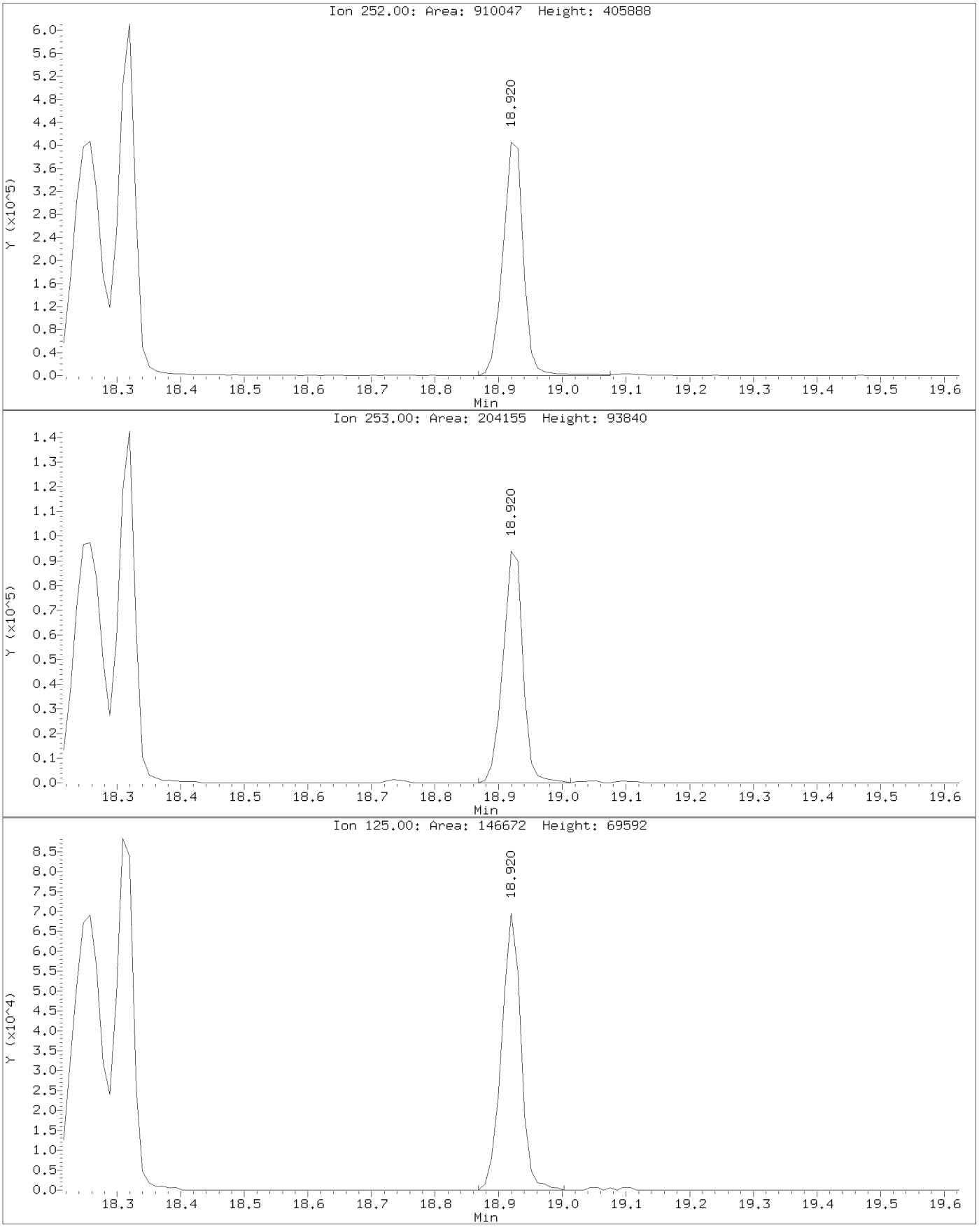
AFTER MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1620.D
Injection Date: 18-OCT-2023 11:45
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

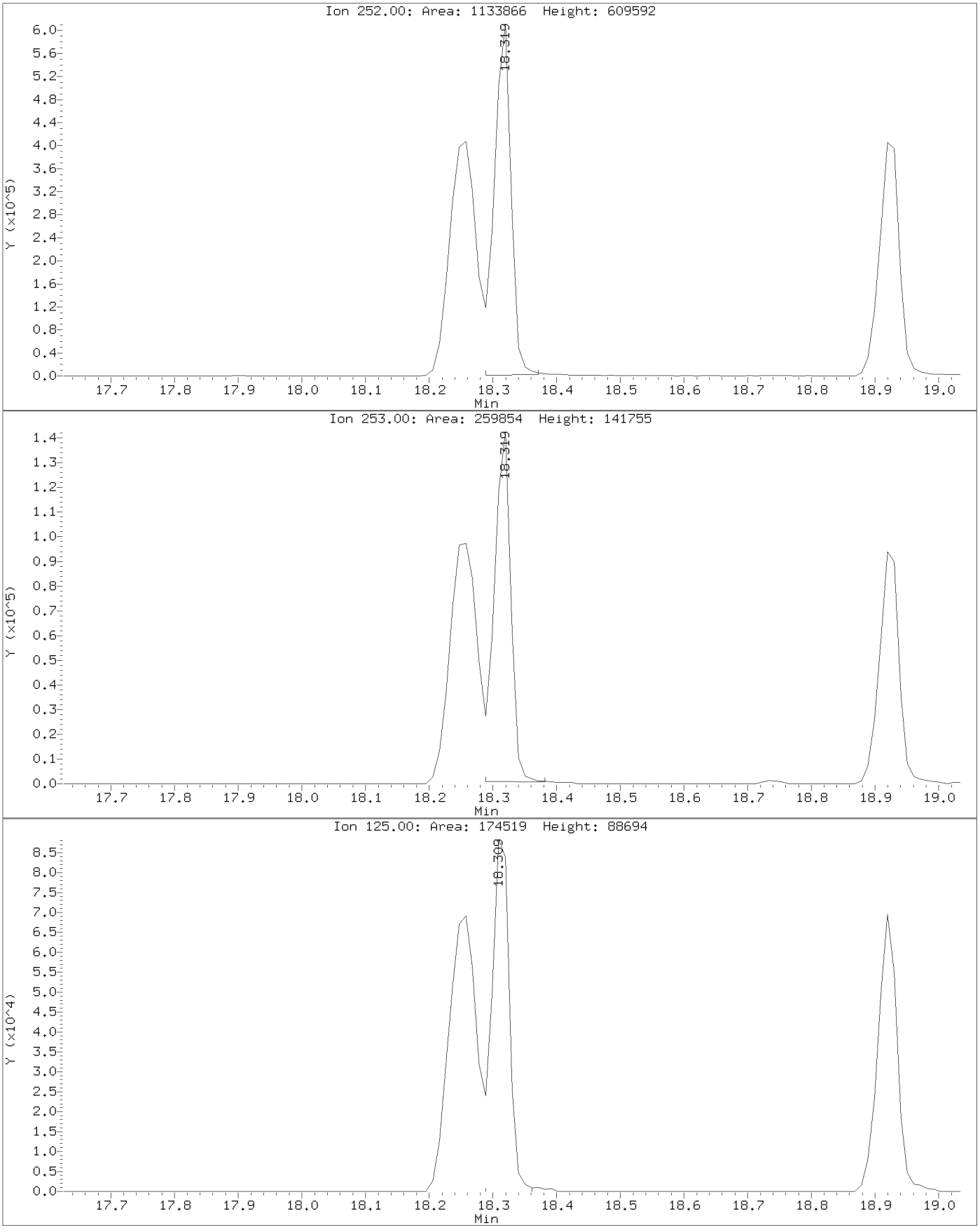
BEFORE MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1620.D
Injection Date: 18-OCT-2023 11:45
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

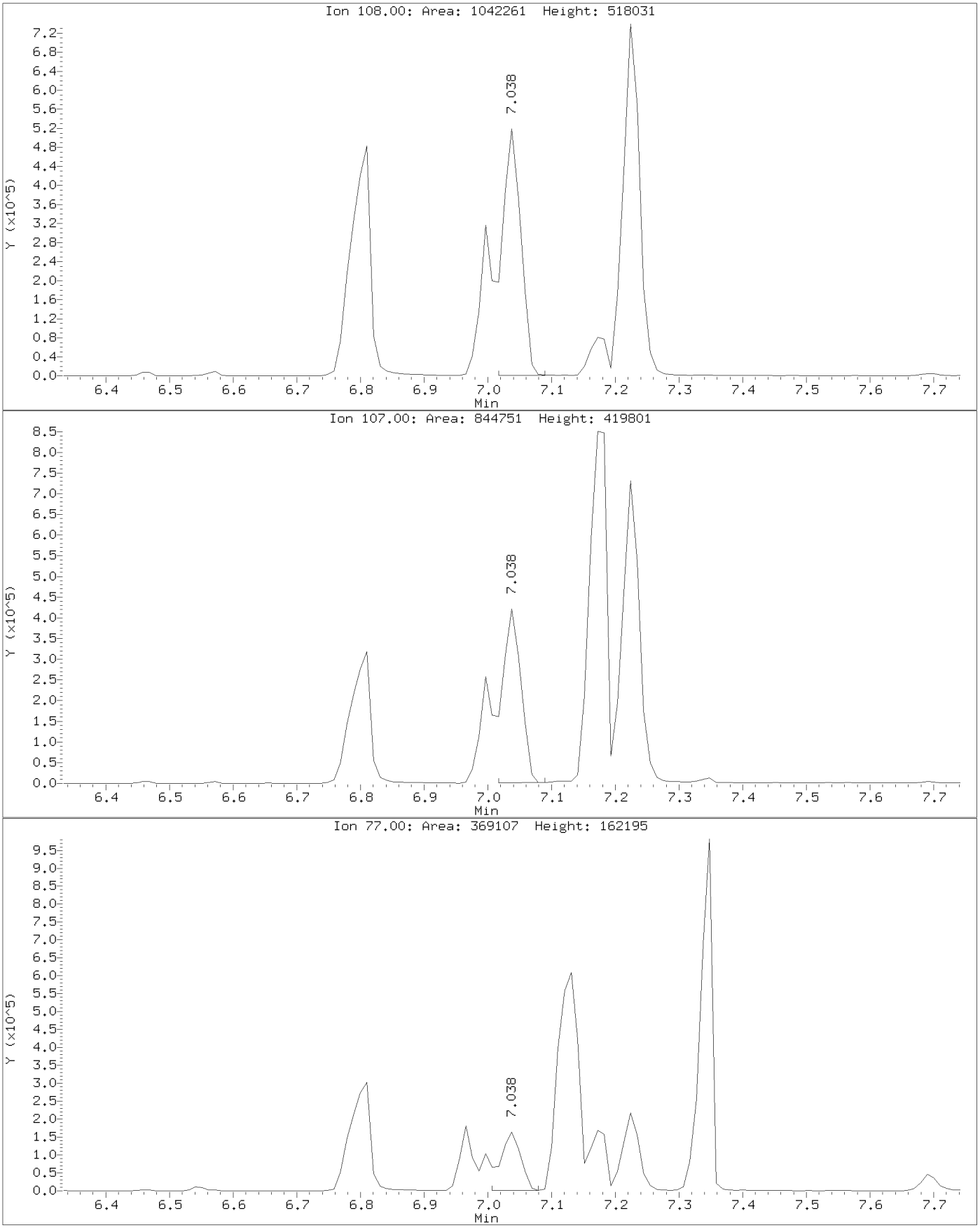
AFTER MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

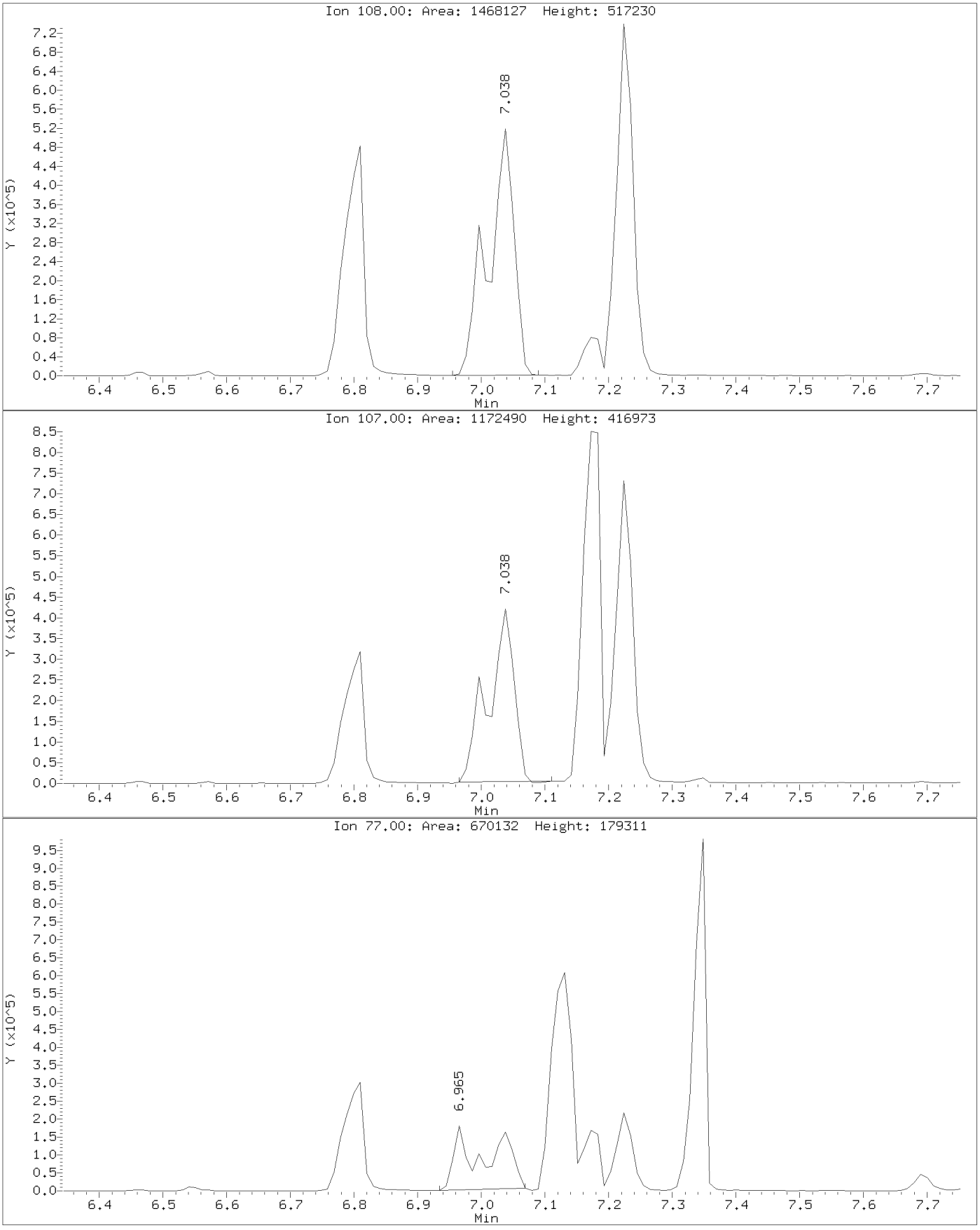
BEFORE MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

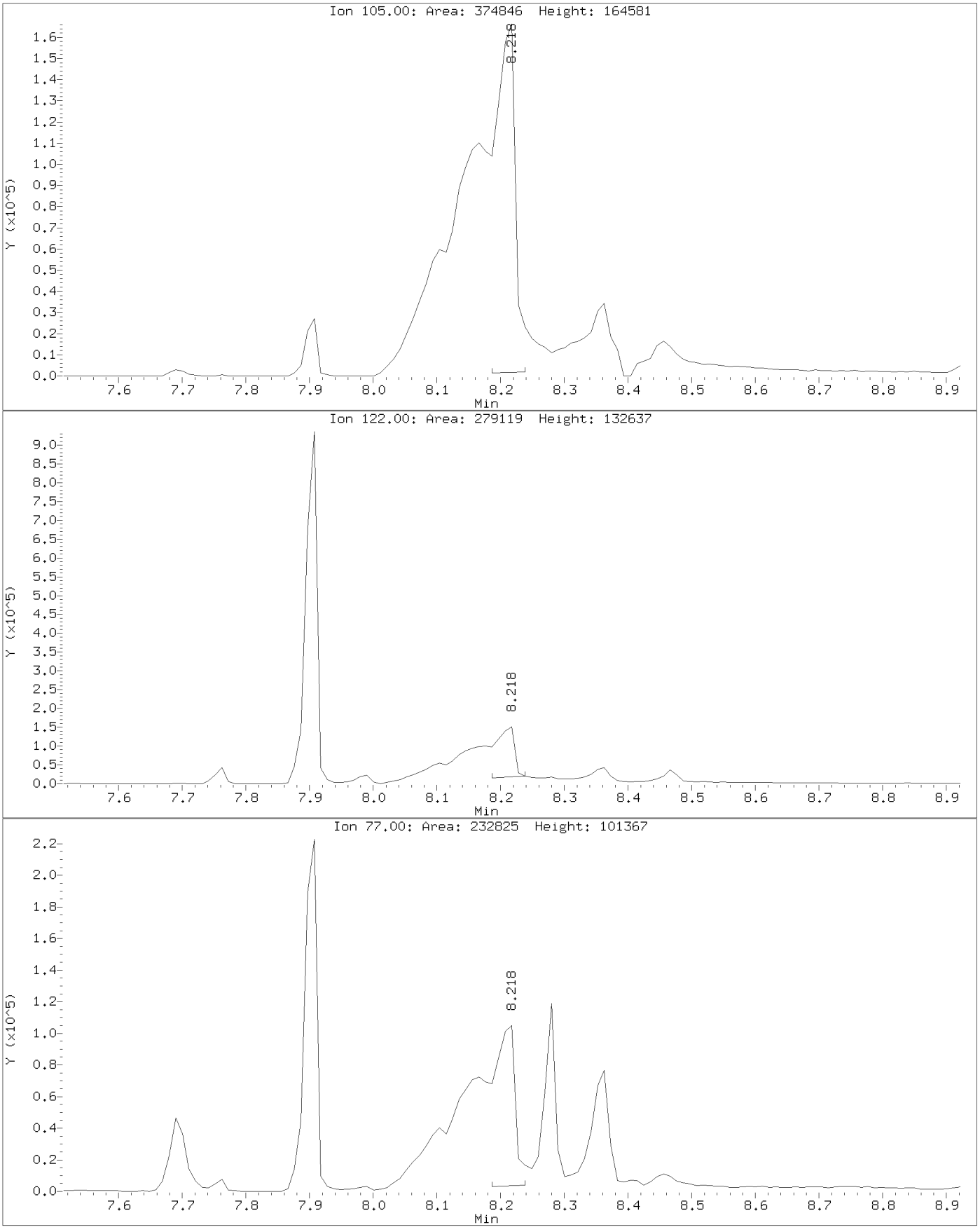
AFTER MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0

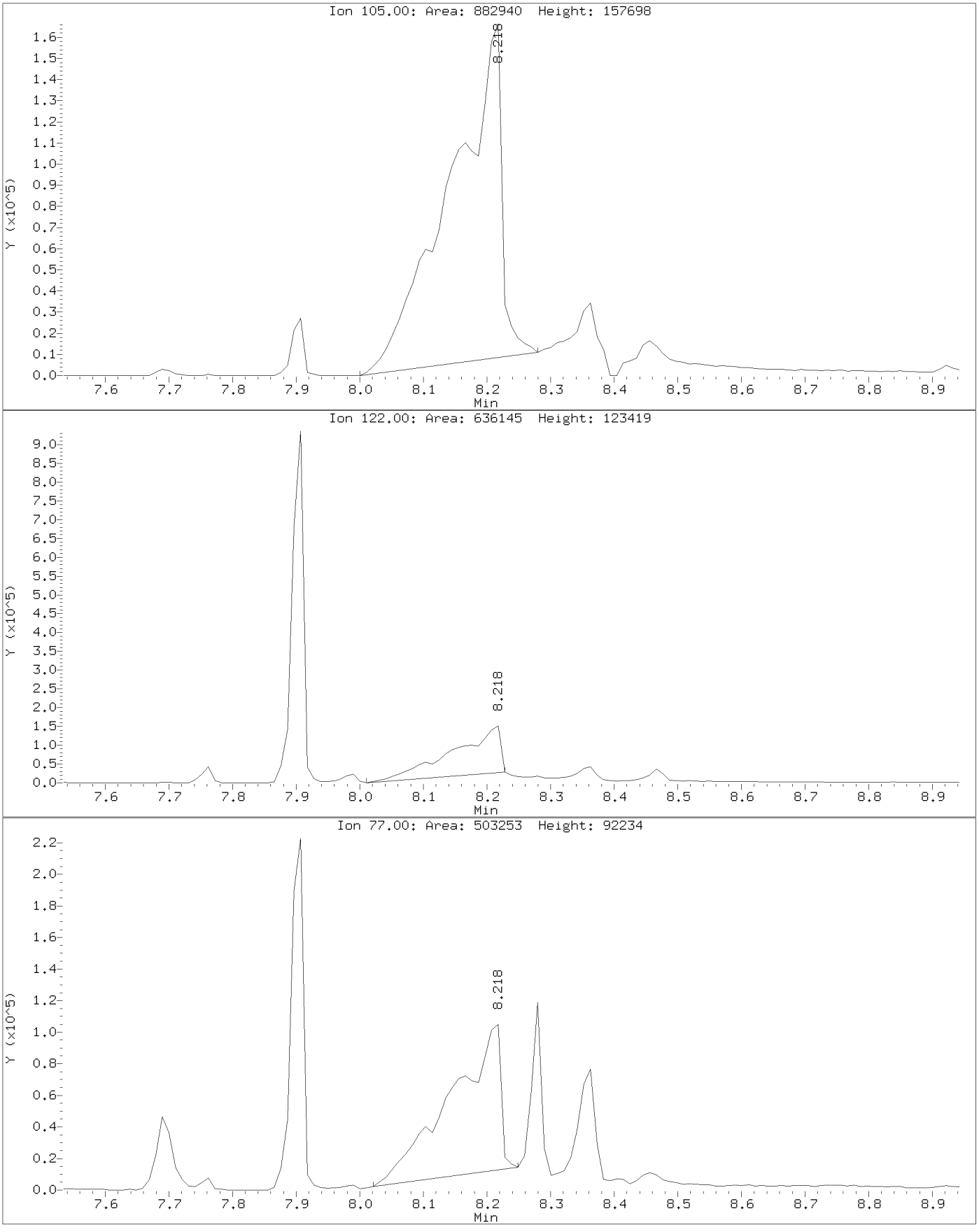
BEFORE MANUAL INTEGRATION



AFTER MANUAL INTEGRATION

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

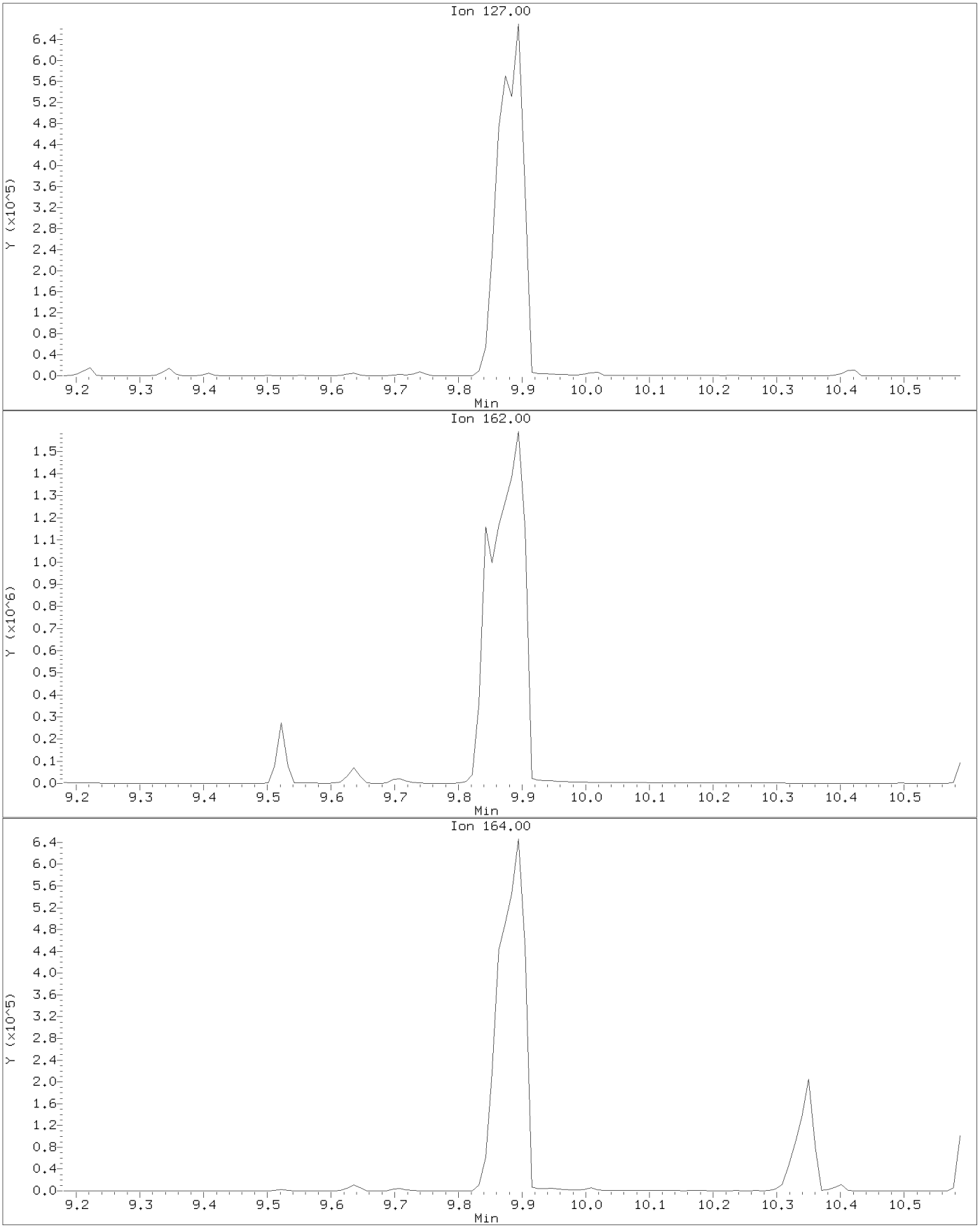
Compound: Benzoic acid
CAS Number: 65-85-0



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Chloronaphthalene
CAS Number: 91-58-7

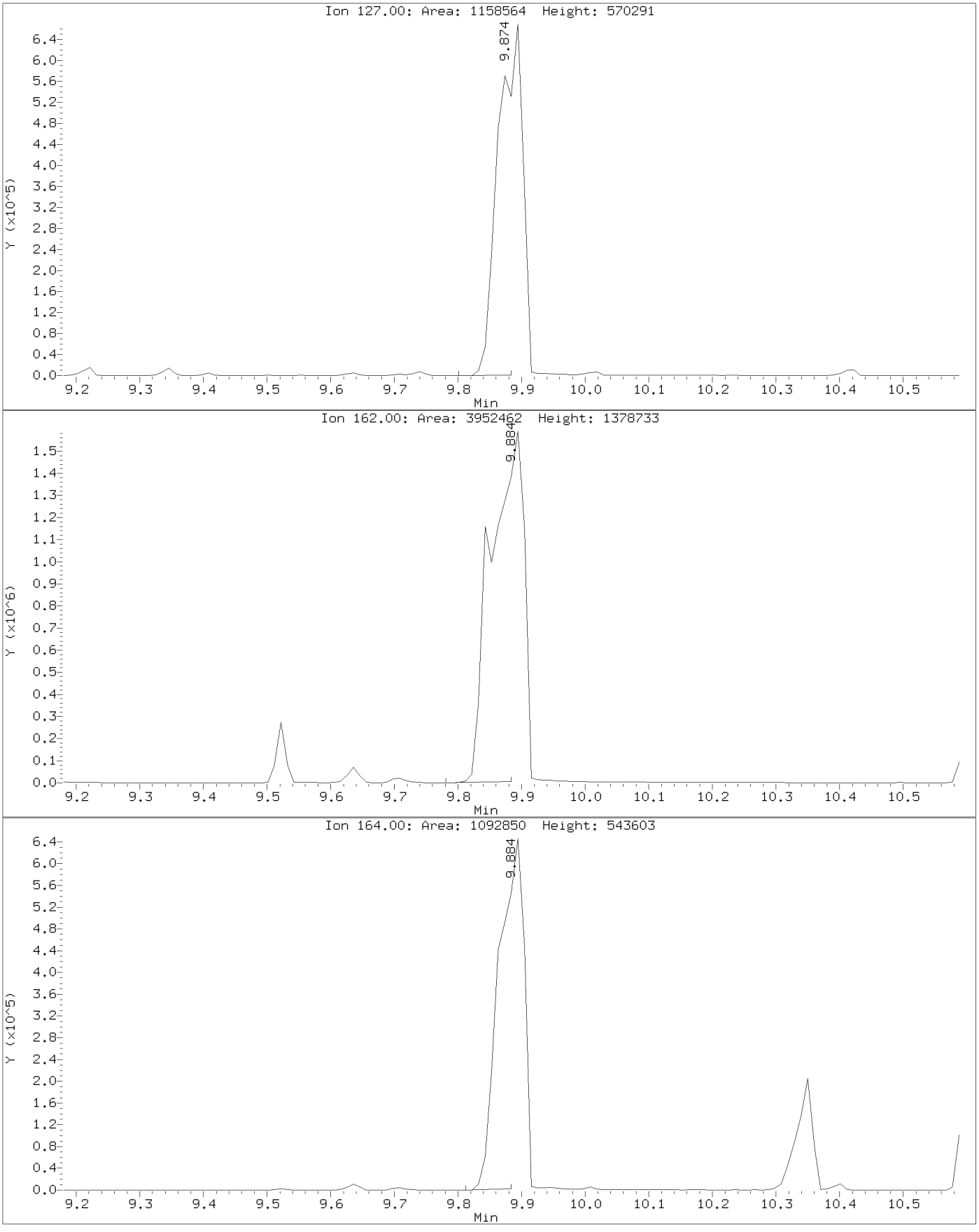
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Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Chloronaphthalene
CAS Number: 91-58-7

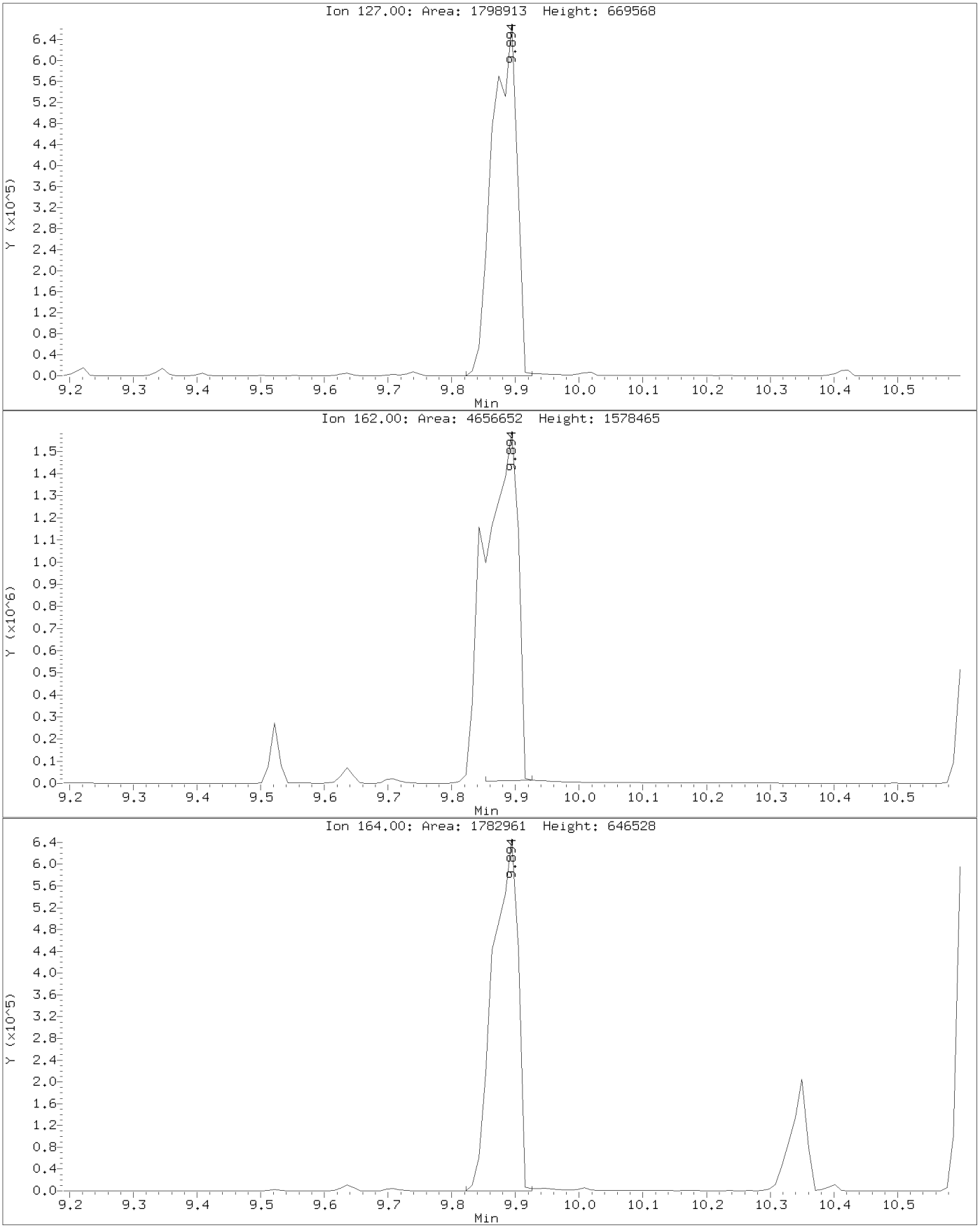
AFTER MANUAL INTEGRATION



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Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: 1-Chloronaphthalene
CAS Number: 90-13-1

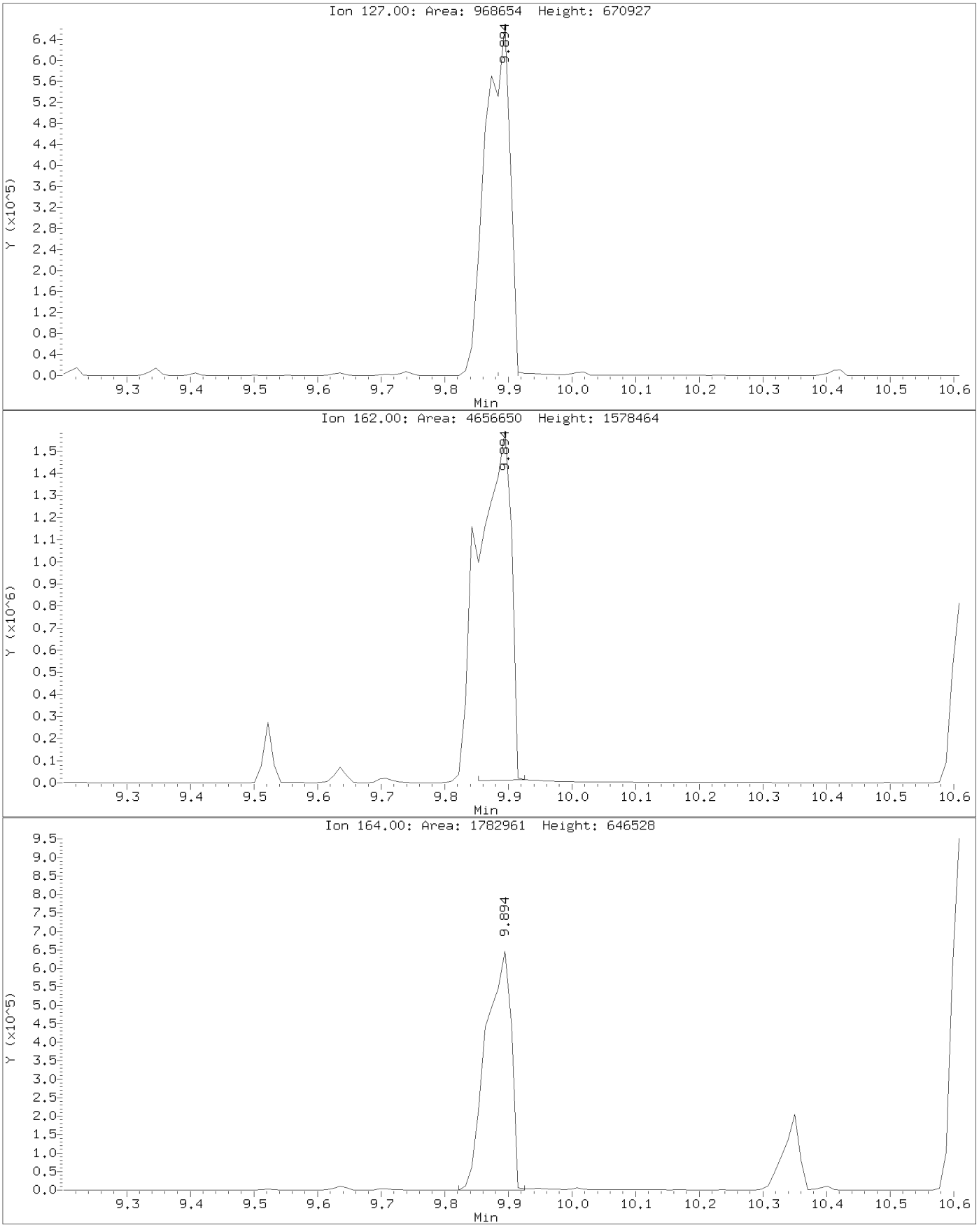
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Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: 1-Chloronaphthalene
CAS Number: 90-13-1

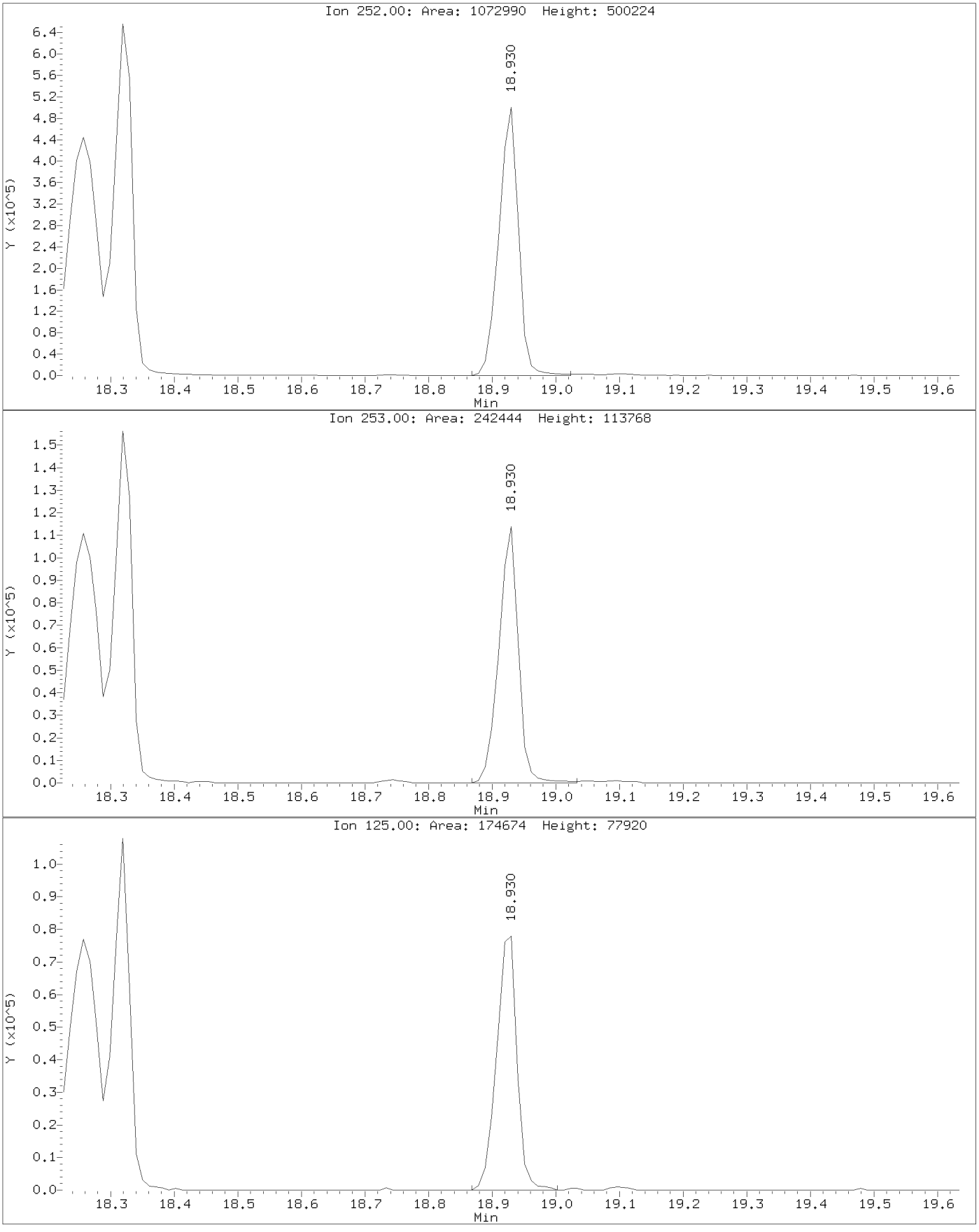
AFTER MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

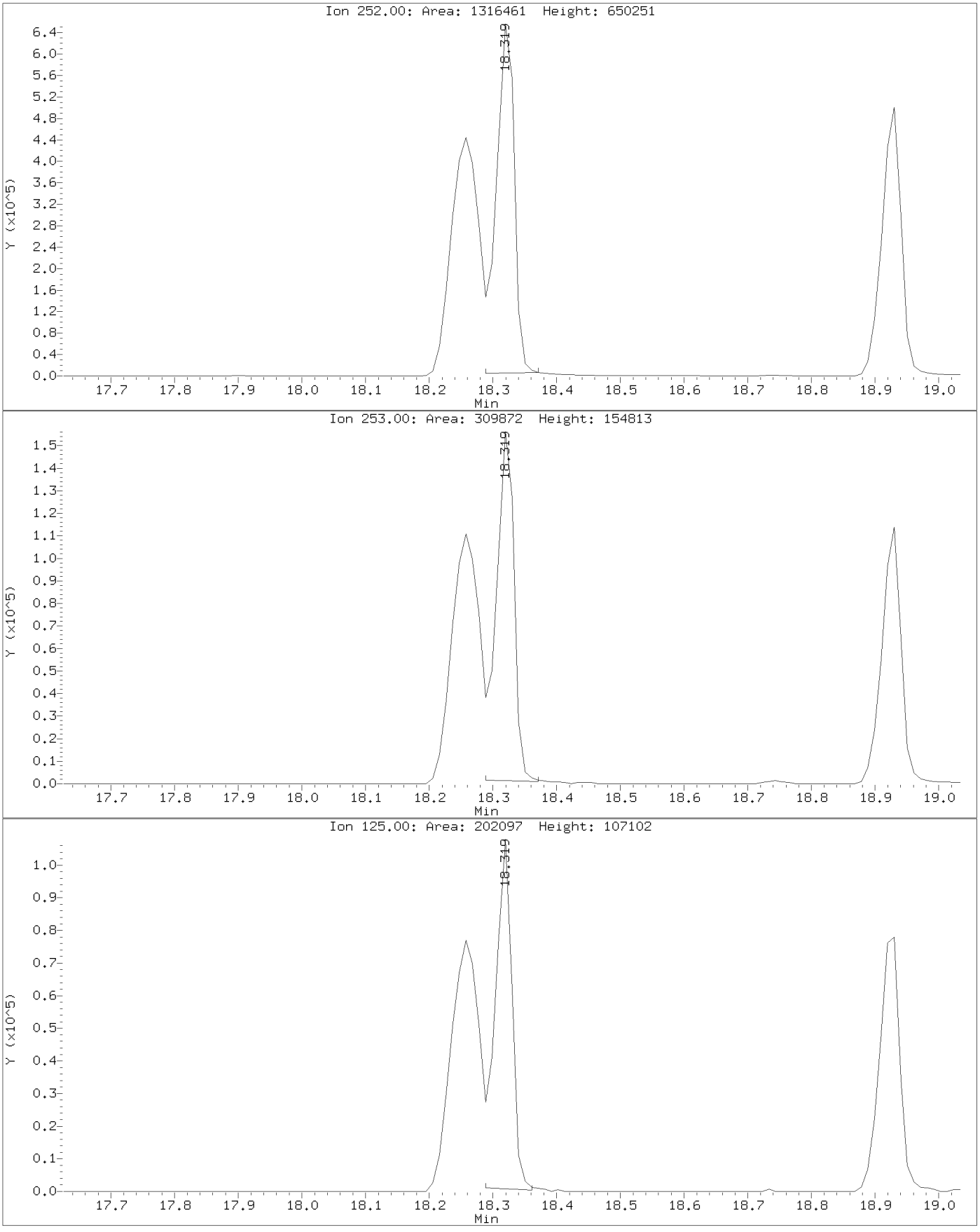
BEFORE MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1621.D
Injection Date: 18-OCT-2023 12:16
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

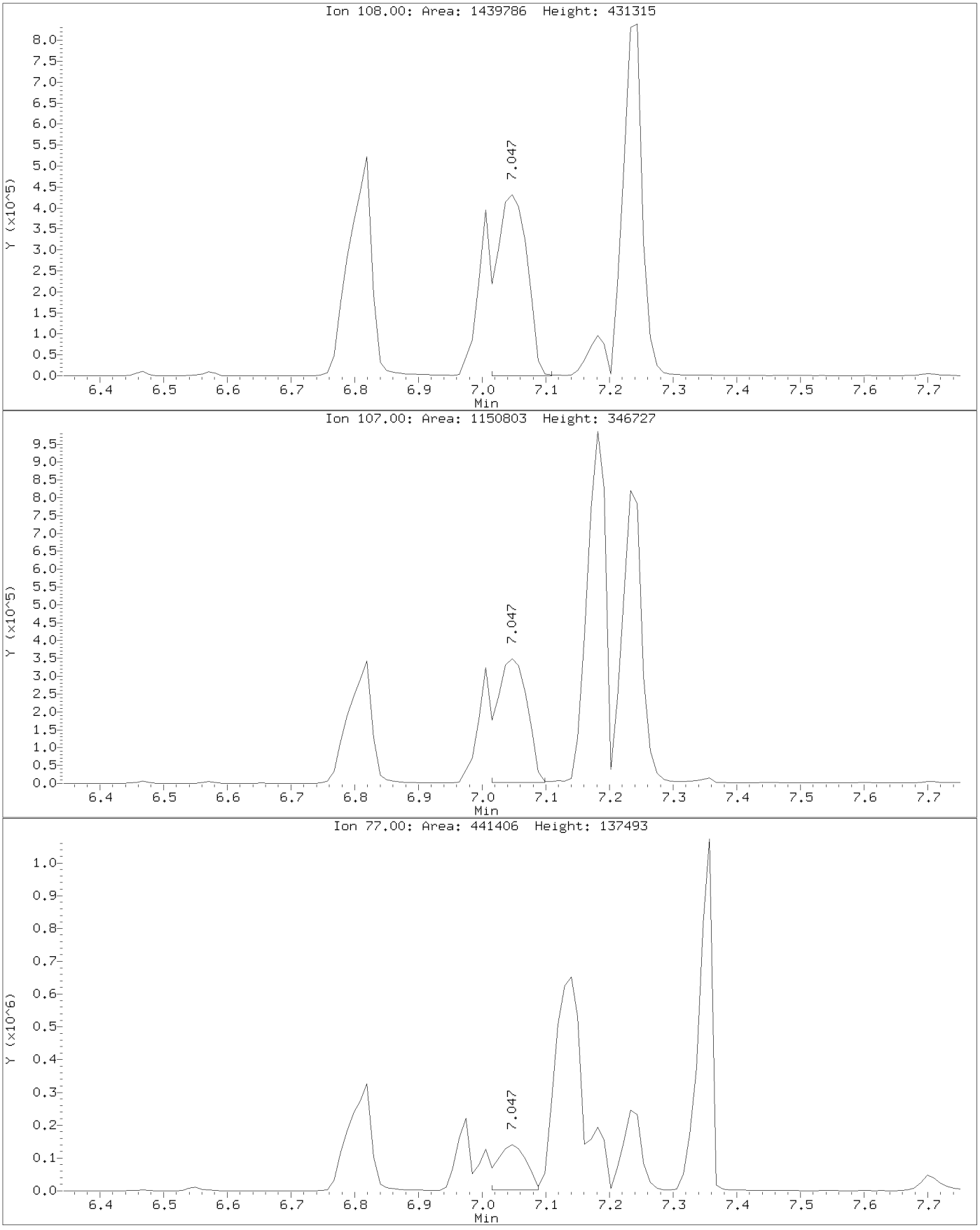
AFTER MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Injection Date: 18-OCT-2023 12:47
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

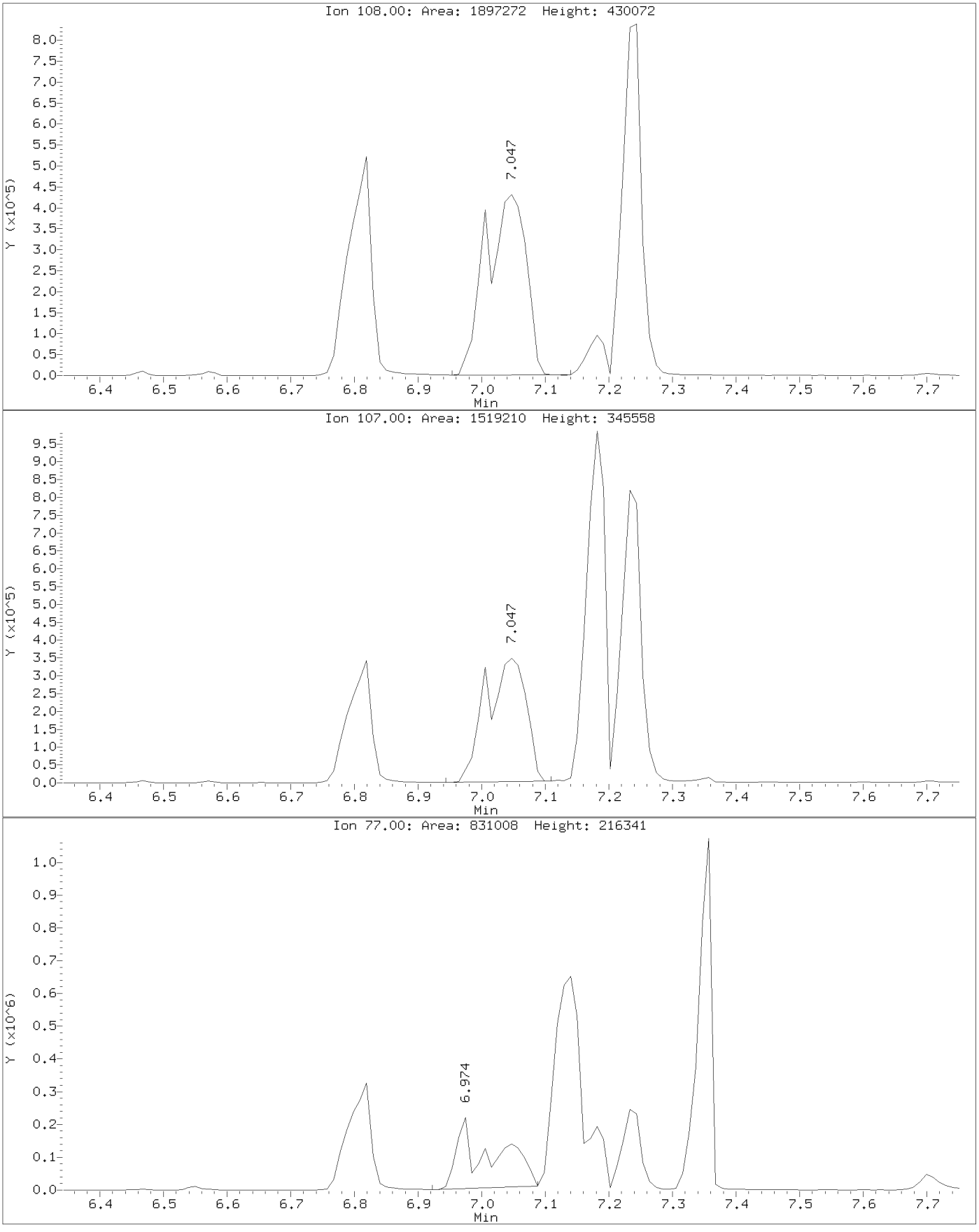
BEFORE MANUAL INTEGRATION



AFTER MANUAL INTEGRATION

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Client Sample ID:

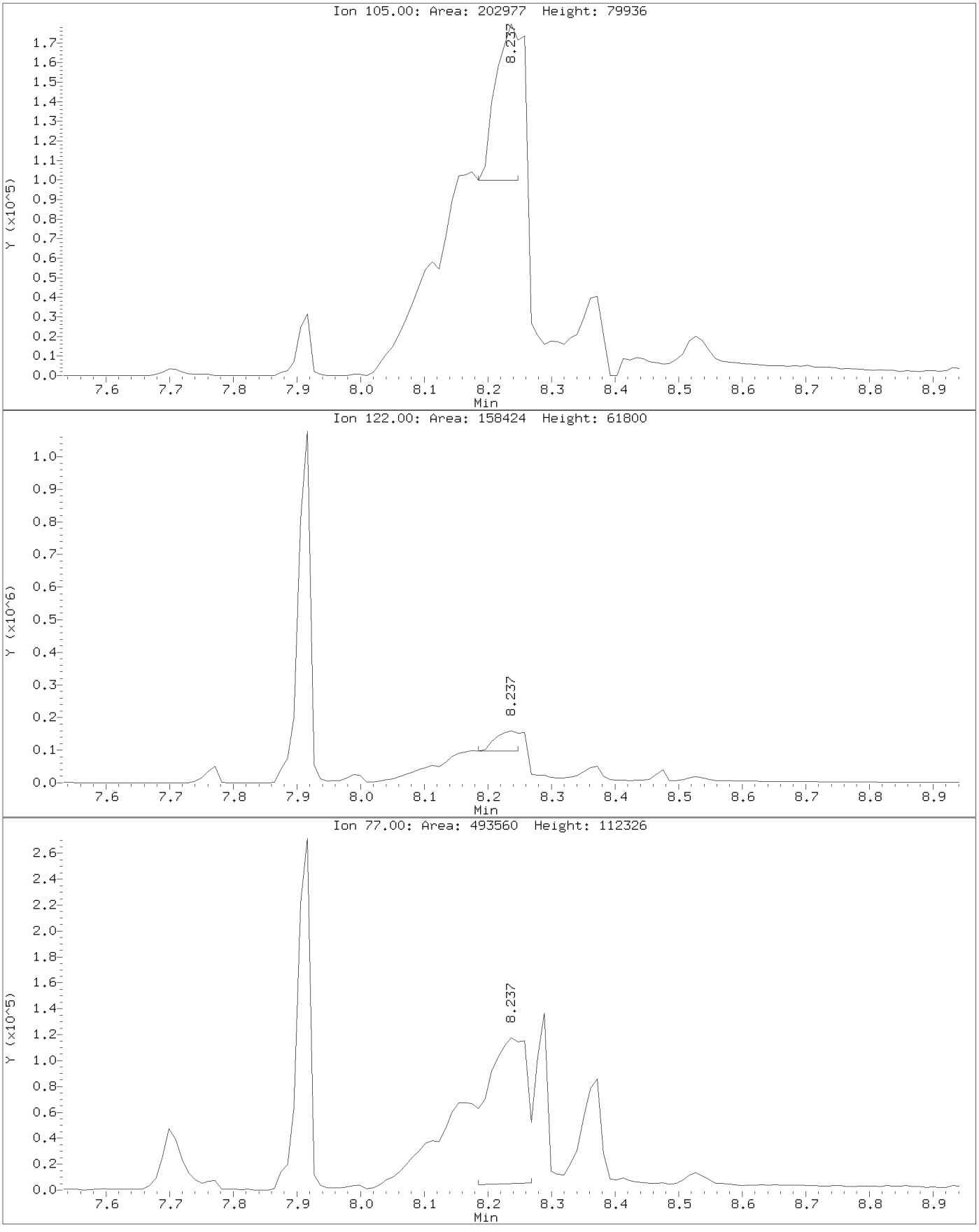
Compound: 2-Methylphenol
CAS Number: 95-48-7



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Injection Date: 18-OCT-2023 12:47
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0

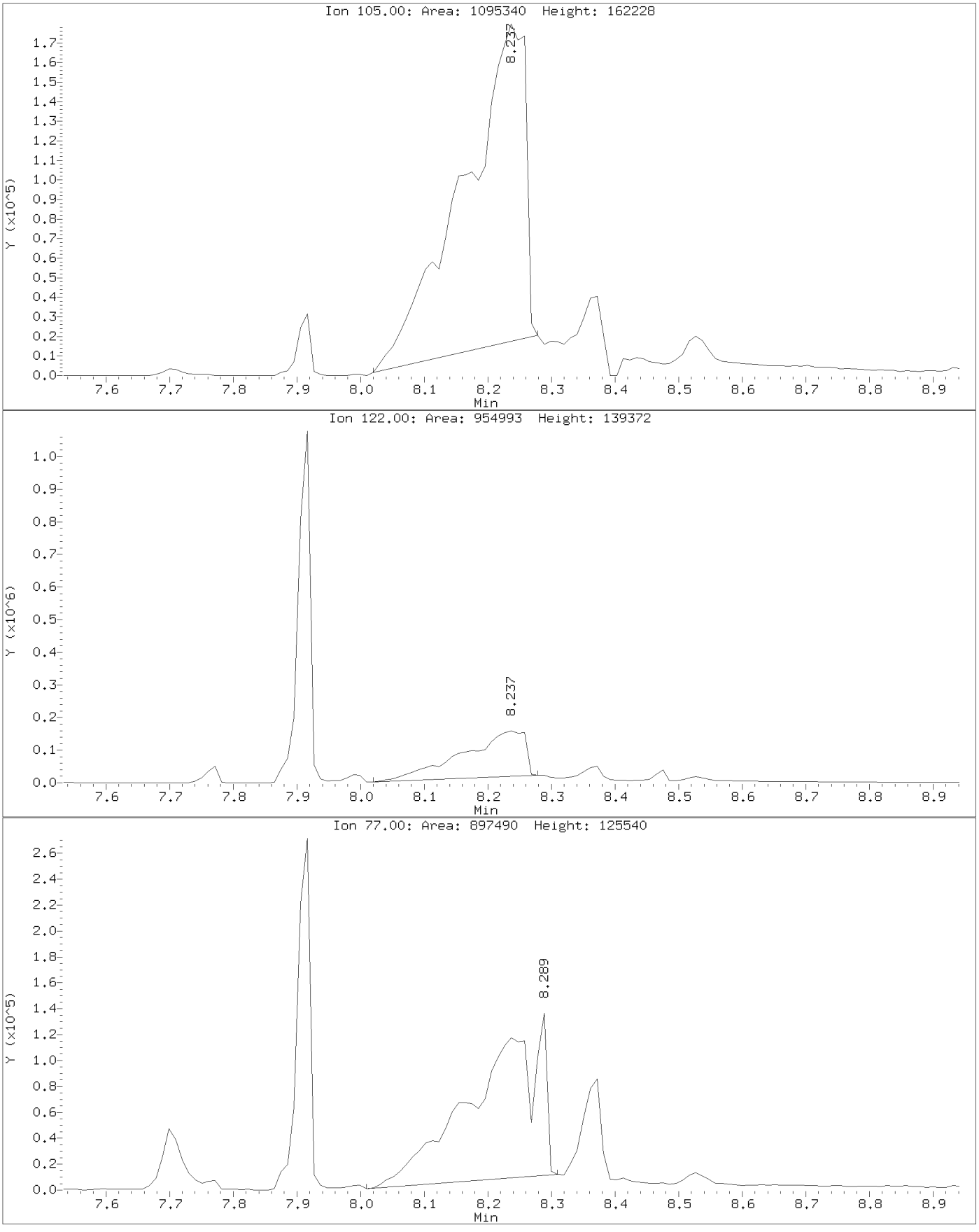
BEFORE MANUAL INTEGRATION



AFTER MANUAL INTEGRATION

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Client Sample ID:

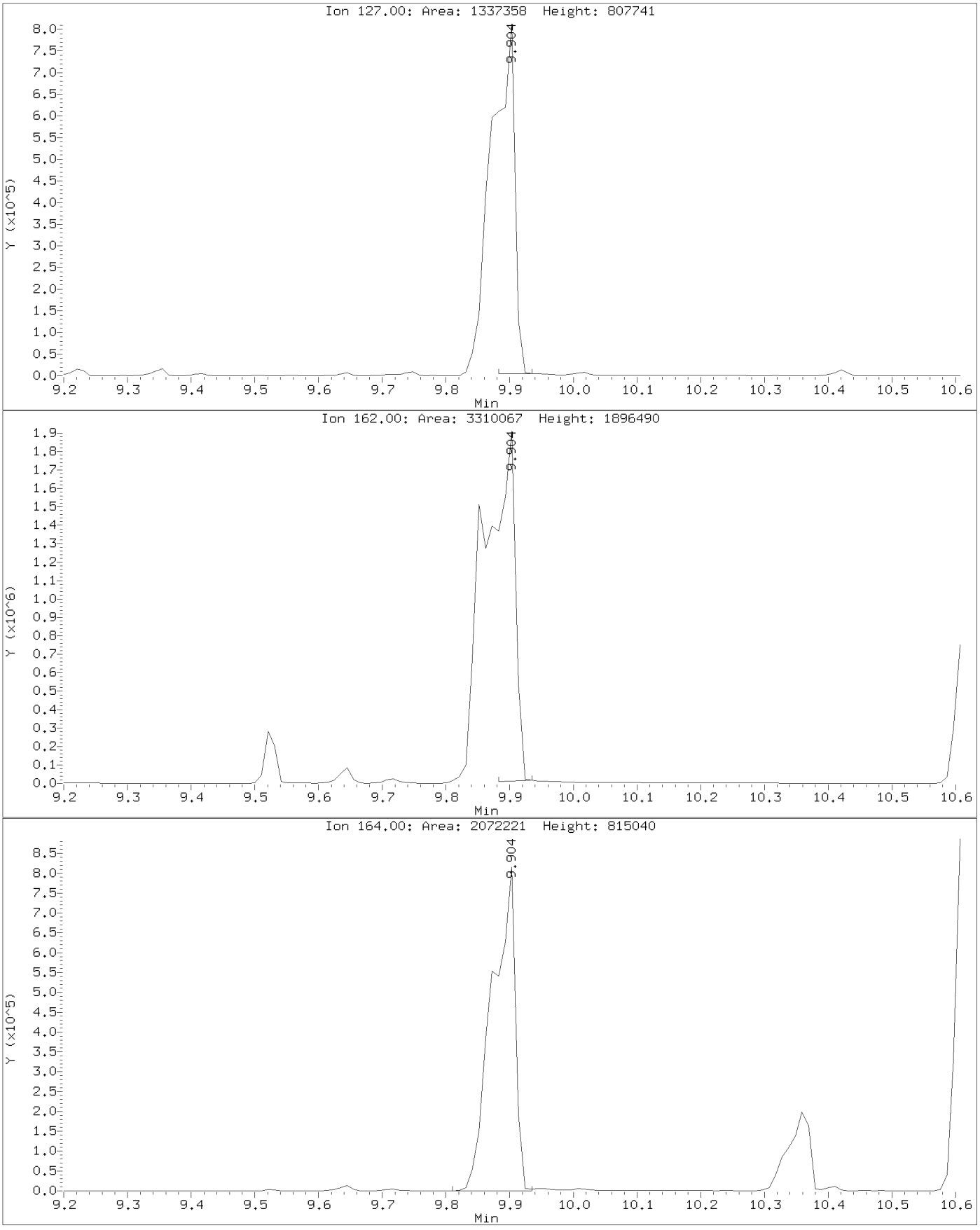
Compound: Benzoic acid
CAS Number: 65-85-0



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
Injection Date: 18-OCT-2023 12:47
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Chloronaphthalene
CAS Number: 91-58-7

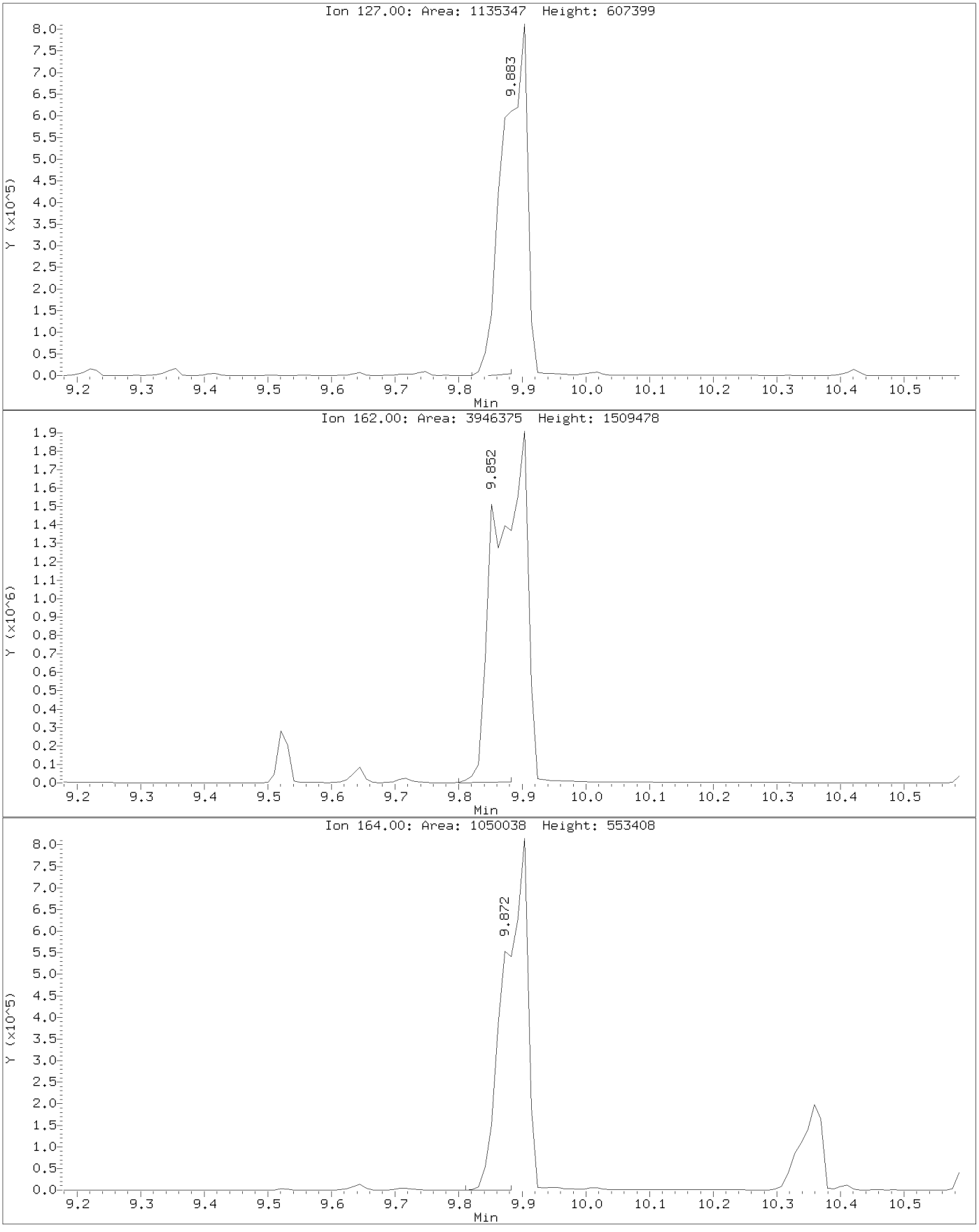
BEFORE MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
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Client Sample ID:

Compound: 2-Chloronaphthalene
CAS Number: 91-58-7

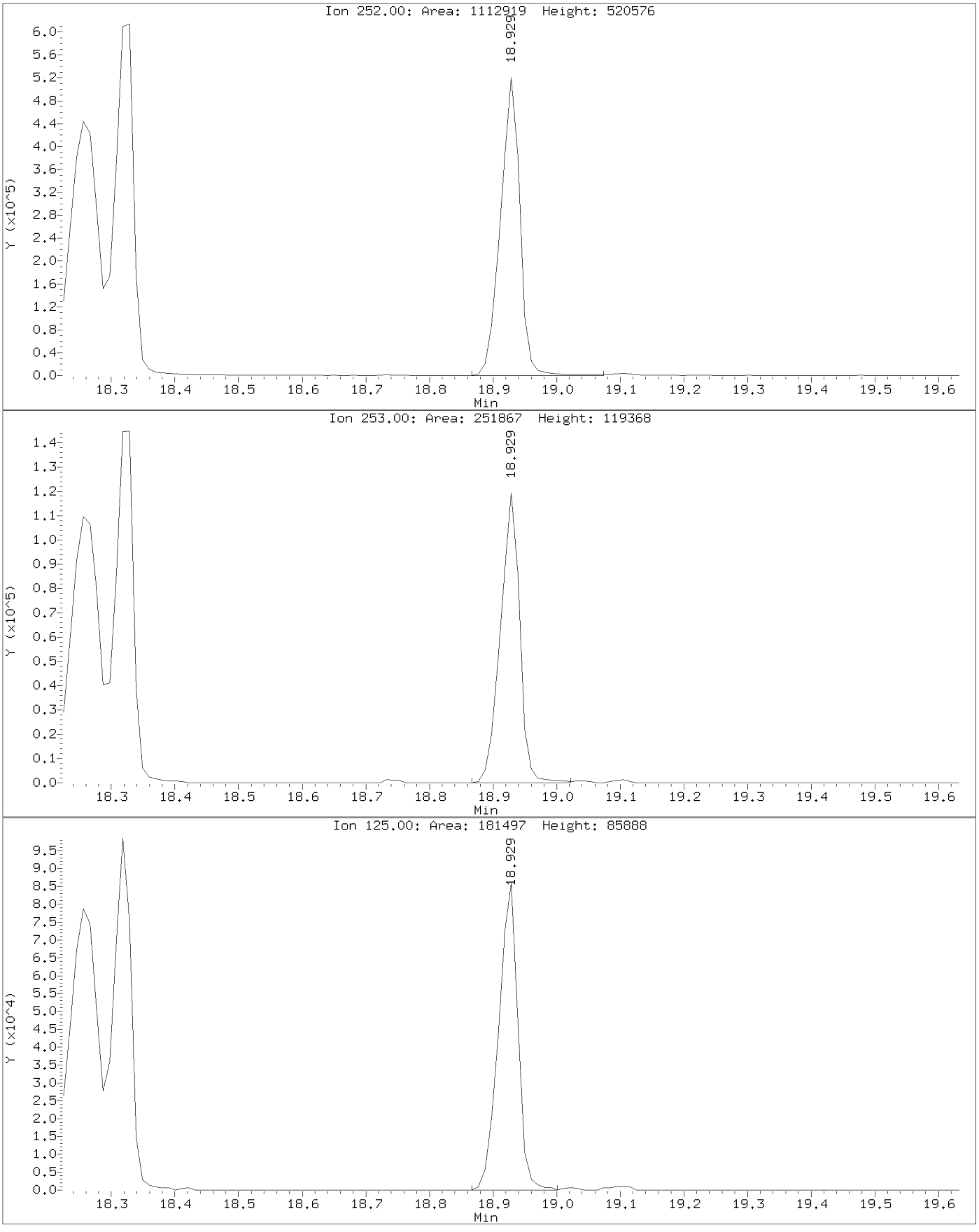
AFTER MANUAL INTEGRATION



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Injection Date: 18-OCT-2023 12:47
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

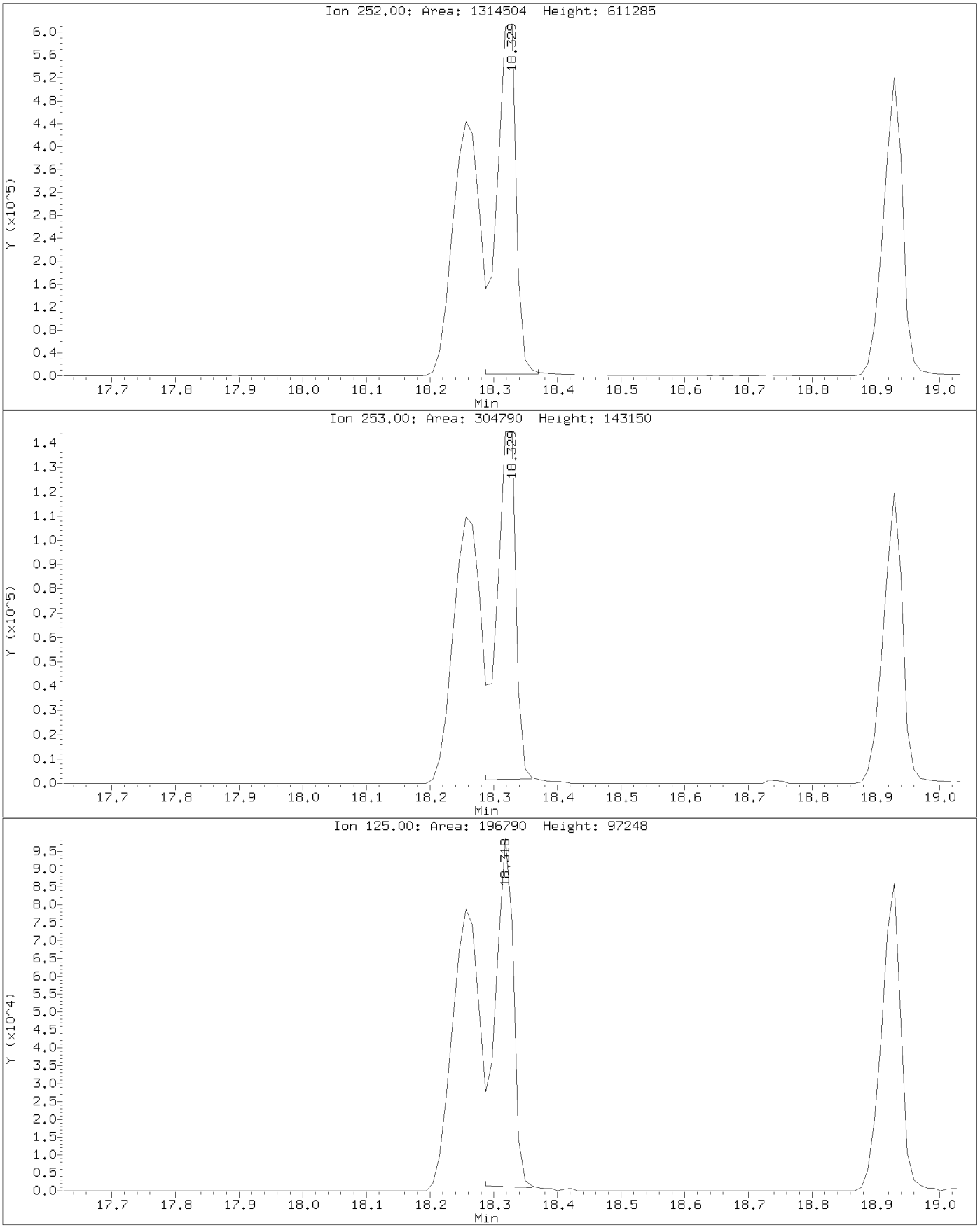
BEFORE MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1622.D
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Instrument: gcms-u.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

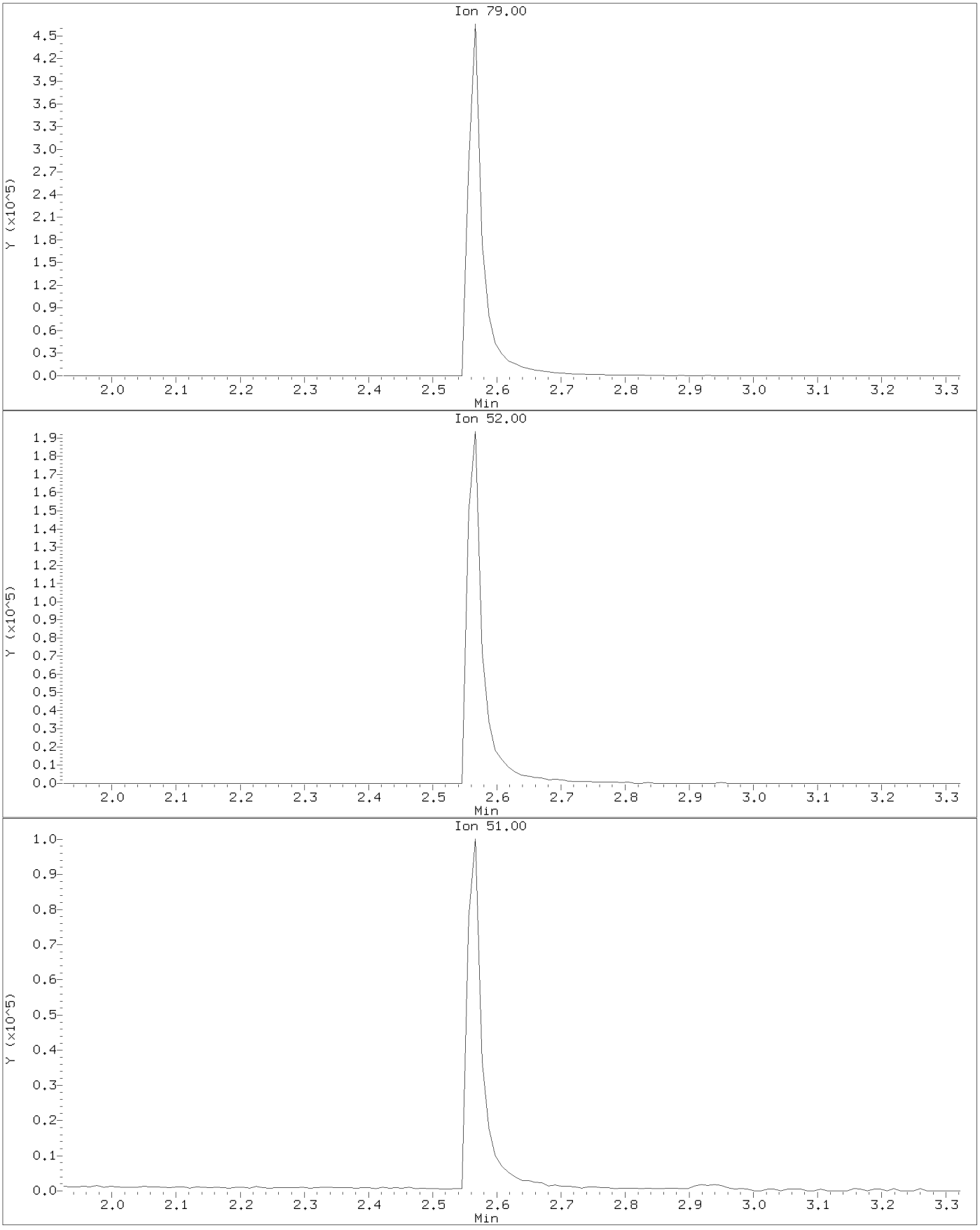
AFTER MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1623.D
Injection Date: 18-OCT-2023 13:17
Instrument: gcms-u.i
Client Sample ID:

Compound: Pyridine
CAS Number: 110-86-1

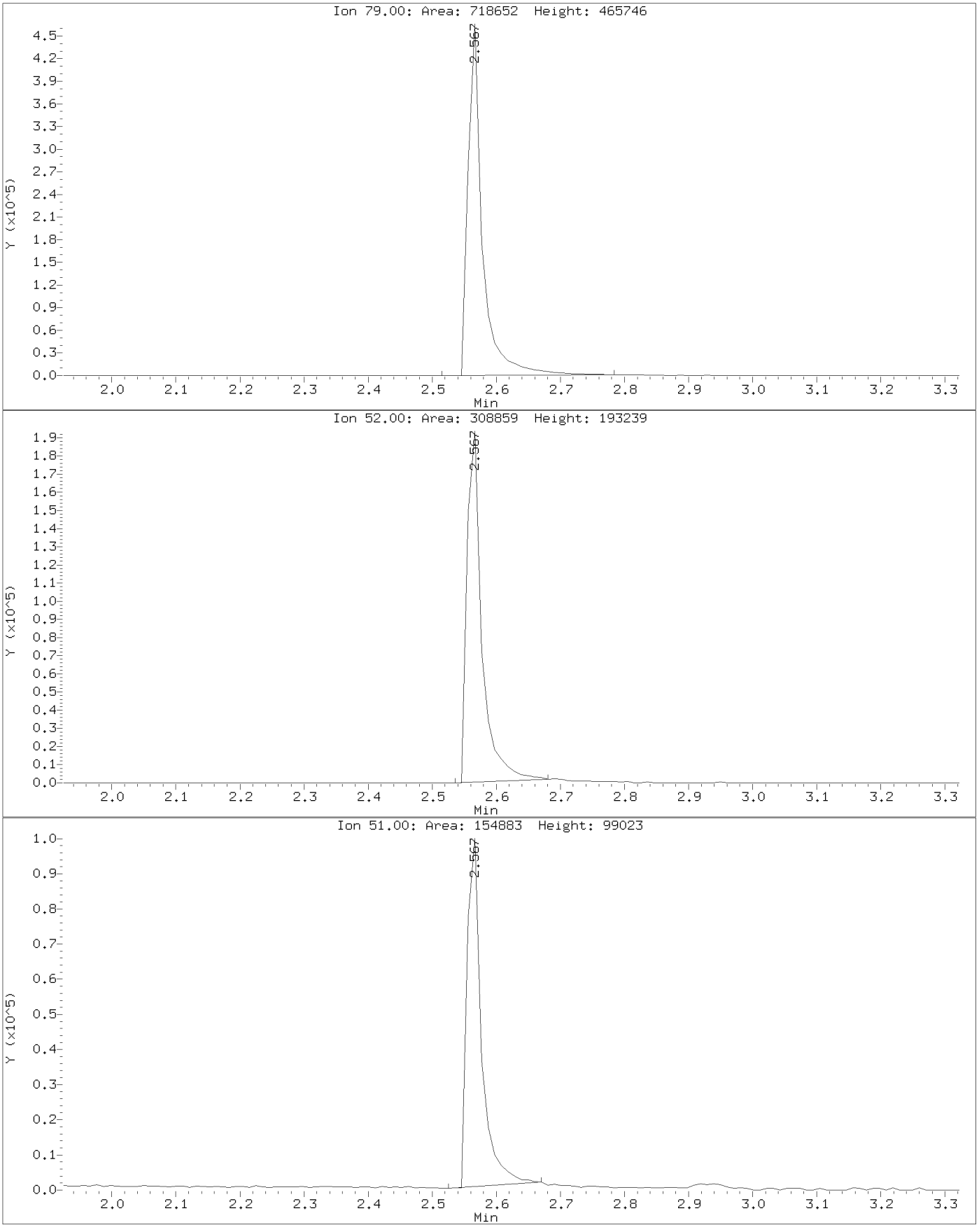
BEFORE MANUAL INTEGRATION



AFTER MANUAL INTEGRATION

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1623.D
Injection Date: 18-OCT-2023 13:17
Instrument: gcms-u.i
Client Sample ID:

Compound: Pyridine
CAS Number: 110-86-1



Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG344071-9
Analytical Date: 10/18/23 20:36
Lab File ID: U1637.D
Instrument ID: GCMS-U
Initial Calibration Date(s): 10/18/23 10:13 10/18/23 12:47
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Pyridine	1.03467	0.99633	0.99633	0.010	-3.70559	20.000	Averaged	
1,4-Dichlorobenzene	50.00000	51.38228	1.31256	0.010	2.76456	20.010	Quadratic	
2-Methylphenol	1.04252	1.01687	1.01687	0.010	-2.46026	20.000	Averaged	
3&4-Methylphenol	1.00238	1.01795	1.01795	0.010	1.55298	20.000	Averaged	
Hexachloroethane	50.00000	52.59475	0.52358	0.010	5.18951	20.000	Quadratic	
Nitrobenzene	0.29107	0.28643	0.28643	0.010	-1.59360	20.000	Averaged	
Hexachlorobutadiene	50.00000	51.35104	0.19962	0.010	2.70208	20.010	Quadratic	
2,4,6-Trichlorophenol	0.38153	0.37670	0.37670	0.010	-1.26723	20.000	Averaged	
2,4,5-Trichlorophenol	0.41018	0.40146	0.40146	0.010	-2.12731	20.000	Averaged	
2,4-Dinitrotoluene	0.41939	0.44757	0.44757	0.010	6.71918	20.000	Averaged	
Hexachlorobenzene	50.00000	53.75839	0.21045	0.010	7.51677	20.000	Quadratic	
Pentachlorophenol	0.14080	0.13740	0.13740	0.010	-2.41607	20.000	Averaged	
2-Fluorophenol	1.09730	1.09717	1.09717	0.010	-0.01179	20.000	Averaged	
Phenol-D6	1.10447	1.14657	1.14657	0.010	3.81199	20.000	Averaged	
Nitrobenzene-D5	0.30323	0.30287	0.30287	0.010	-0.11666	20.000	Averaged	
2-Fluorobiphenyl	50.00000	51.63263	1.13593	0.010	3.26526	20.000	Quadratic	
2,4,6-Tribromophenol	0.15570	0.15534	0.15534	0.010	-0.23475	20.000	Averaged	
Terphenyl-D14	1.13598	1.42659	1.42659	0.010	25.58232	20.000	Averaged	*

*** = Compound out of QC criteria**

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Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1637.D
Report Date: 16-Nov-2023 15:11

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1637.D
Lab Smp Id: WG344071-9
Inj Date : 18-OCT-2023 20:36
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344071-9
Misc Info : WG344071,WG344071,WG344071-4,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 16-Nov-2023 15:09 gcms-u.i   Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47   Cal File: U1622.D
Als bottle: 2   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all_DOD5.sub
Target Version: 4.12
Processing Host: TECHN0VA-01

Concentration Formula: Amt * DF * Uf*(Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.132	2.182	(0.259)	145320	50.0000	50.6(a)	
	2 N-Nitrosodimethylamine	42	2.546	2.617	(0.389)	230878	50.0000	51.2(a)	
	3 Pyridine	79	2.567	2.627	(0.392)	690756	50.0000	48.1(a)	
	4 Ethyl Methacrylate	69	3.312	3.362	(0.506)	561823	50.0000	50.1(a)	
	5 2-Picoline	93	3.799	3.828	(0.581)	904124	50.0000	51.7(a)	
	6 N-Nitrosomethylethylamine	88	4.026	4.066	(0.616)	370763	50.0000	56.0(a)	
	7 Methyl Methanesulfonate	80	4.533	4.573	(0.693)	393154	50.0000	47.6(a)	
$	8 2-Fluorophenol	112	4.813	4.821	(0.736)	760667	50.0000	50.0(a)	
	9 N-Nitrosodiethylamine	102	5.092	5.121	(0.778)	389944	50.0000	51.8(a)	
	10 Ethyl Methanesulfonate	79	5.568	5.597	(0.851)	532331	50.0000	50.4(a)	
	11 Benzaldehyde	77	5.941	5.949	(0.908)	143889	50.0000	56.4(a)	
$	12 Phenol-D6	99	6.179	6.187	(0.945)	794919	50.0000	51.9(a)	
	13 Aniline	93	6.117	6.136	(0.935)	988856	50.0000	49.8(a)	
	14 Phenol	94	6.189	6.208	(0.946)	903533	50.0000	53.2(a)	
	15 Pentachloroethane	117	6.148	6.156	(0.940)	312751	50.0000	50.6(a)	
	16 Bis(2-Chloroethyl)ether	93	6.241	6.260	(0.954)	633960	50.0000	49.4(a)	
	17 2-Chlorophenol	128	6.283	6.291	(0.960)	837665	50.0000	50.7(a)	
	18 1,3-Dichlorobenzene	146	6.459	6.467	(0.987)	960415	50.0000	51.7(a)	
*	19 1,4-Dichlorobenzene-D4	152	6.541	6.550	(1.000)	554640	40.0000		
	20 1,4-Dichlorobenzene	146	6.562	6.570	(1.003)	910001	50.0000	51.4(a)	
	21 Benzyl alcohol	108	6.790	6.819	(1.038)	516015	50.0000	50.0(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1637.D
Report Date: 16-Nov-2023 15:11

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	22	1,2-Dichlorobenzene	146	6.759	6.767	(1.033)	926440	50.0000	51.5(a)	
	23	Bis(2-Chloroisopropyl)ether	45	6.955	6.974	(1.063)	590261	50.0000	50.4(a)	
	24	2,2'-Oxybis(1-chloropropane)	45	6.955	6.974	(1.063)	590261	50.0000	50.4(a)	
	25	2-Methylphenol	108	7.017	7.046	(1.073)	704996	50.0000	48.8(a)	
	26	Acetophenone	105	7.111	7.140	(0.863)	994945	50.0000	49.7(a)	
	27	N-Nitrosopyrrolidine	100	7.111	7.191	(1.087)	361574	50.0000	49.7(a)	
	28	N-Nitrosomorpholine	56	7.173	7.222	(1.097)	252505	50.0000	51.0(a)	
	29	N-Nitroso-di-n-propylamine	70	7.162	7.202	(1.095)	378200	50.0000	47.2(a)	
	30	3&4-Methylphenol	108	7.214	7.243	(1.103)	705745	50.0000	50.8(a)	
	31	o-Toluidine	106	7.162	7.181	(1.095)	987928	50.0000	48.9(a)	
	32	Hexachloroethane	117	7.193	7.212	(1.100)	362999	50.0000	52.6(a)	
$	33	Nitrobenzene-D5	82	7.297	7.326	(0.886)	650895	50.0000	49.9	
	34	Nitrobenzene	77	7.328	7.357	(0.889)	615561	50.0000	49.2(a)	
	35	N-Nitrosopiperidine	114	7.545	7.574	(0.916)	426551	50.0000	52.5(a)	
	36	Isophorone	82	7.669	7.698	(0.931)	1175762	50.0000	49.1(a)	
	37	2-Nitrophenol	139	7.752	7.771	(0.941)	504405	50.0000	51.4(a)	
	38	2,4-Dimethylphenol	107	7.897	7.916	(0.959)	565935	50.0000	50.6(a)	
	39	O,O,O-Triethylphosphorothioat	198	7.970	7.999	(0.967)	398484	50.0000	50.3(a)	
	40	Bis(2-Chloroethoxy)methane	93	8.001	8.019	(0.971)	987127	50.0000	55.6(a)	
	41	Benzoic acid	105	8.208	8.237	(0.996)	60346	50.0000	7.80(a)	
	42	2,4-Dichlorophenol	162	8.394	8.423	(1.019)	615947	50.0000	53.1(a)	
	43	1,2,4-Trichlorobenzene	180	8.177	8.195	(0.992)	749620	50.0000	51.9(a)	
*	44	Naphthalene-D8	136	8.239	8.257	(1.000)	1719249	40.0000		
	45	Naphthalene	128	8.270	8.288	(1.004)	1914061	50.0000	50.7(a)	
	46	alpha-Terpineol	59	8.342	8.371	(1.013)	380922	50.0000	49.7(a)	
	47	4-Chloroaniline	127	8.394	8.413	(1.019)	814701	50.0000	49.0(a)	
	48	2,6-Dichlorophenol	162	8.394	8.423	(1.019)	615947	50.0000	53.1(a)	
	49	Hexachloropropene	213	8.394	8.402	(1.019)	487340	50.0000	50.2(a)	
	50	Hexachlorobutadiene	225	8.466	8.475	(1.028)	428997	50.0000	51.4(a)	
	51	A,A-Dimethylphenethylamine	58	8.549	8.528	(1.038)	268144	50.0000	82.5(a)	
	52	N-Nitroso-Di-N-Butylamine	84	8.870	8.909	(1.077)	444815	50.0000	50.2(a)	
	53	p-Phenylenediamine	108	8.901	8.930	(1.080)	364089	50.0000	39.4(a)	
	54	Caprolactam	113	8.963	9.023	(1.088)	222517	50.0000	51.5(a)	
	55	4-Chloro-3-Methylphenol	107	9.119	9.147	(1.107)	526355	50.0000	43.9(a)	
	56	Isosafrole	162	9.129	9.147	(1.108)	599840	50.0000	47.2(a)	
	57	2-Methylnaphthalene	142	9.212	9.220	(1.118)	1418965	50.0000	52.3(a)	
	58	1-Methylnaphthalene	142	9.336	9.354	(1.133)	1309058	50.0000	50.3(a)	
	59	1,2,4,5-Tetrachlorobenzene	216	9.439	9.448	(0.891)	693499	50.0000	55.4(a)	
	60	Hexachlorocyclopentadiene	237	9.429	9.437	(0.890)	293012	50.0000	43.2(a)	
	61	2,4,6-Trichlorophenol	196	9.626	9.644	(0.908)	467239	50.0000	49.4(a)	
	62	2,4,5-Trichlorophenol	196	9.698	9.717	(0.915)	497949	50.0000	48.9(a)	
$	63	2-Fluorobiphenyl	172	9.729	9.748	(0.918)	1408954	50.0000	51.6	
	64	Safrole	104	9.833	9.851	(0.928)	248037	50.0000	52.6(a)	
	65	1,1'-Biphenyl	154	9.853	9.882	(0.930)	1381212	50.0000	51.4(a)	
	66	2-Chloronaphthalene	127	9.864	9.882	(0.931)	663079	50.0000	53.2(aH)	
	67	1-Chloronaphthalene	127	9.884	9.903	(0.933)	461330	50.0000	49.6(a)	
	68	Diphenylether	170	10.009	10.017	(0.944)	1025926	50.0000	54.3(a)	
	69	2-Nitroaniline	65	10.029	10.048	(0.946)	358652	50.0000	53.5(a)	
	70	1,4-Naphthoquinone	158	10.112	10.120	(0.954)	352346	50.0000	52.8(a)	
	71	1,4-Dinitrobenzene	168	10.236	10.265	(0.966)	266330	50.0000	51.5(a)	
	72	Dimethyl Phthalate	163	10.329	10.358	(0.975)	1521846	50.0000	51.1(a)	
	73	1,3-Dinitrobenzene	168	10.340	10.379	(0.976)	281643	50.0000	52.4(a)	
	74	2,6-Dinitrotoluene	165	10.381	10.410	(0.979)	373651	50.0000	51.5(a)	
	75	Acenaphthylene	152	10.402	10.421	(0.981)	2010416	50.0000	52.6(a)	

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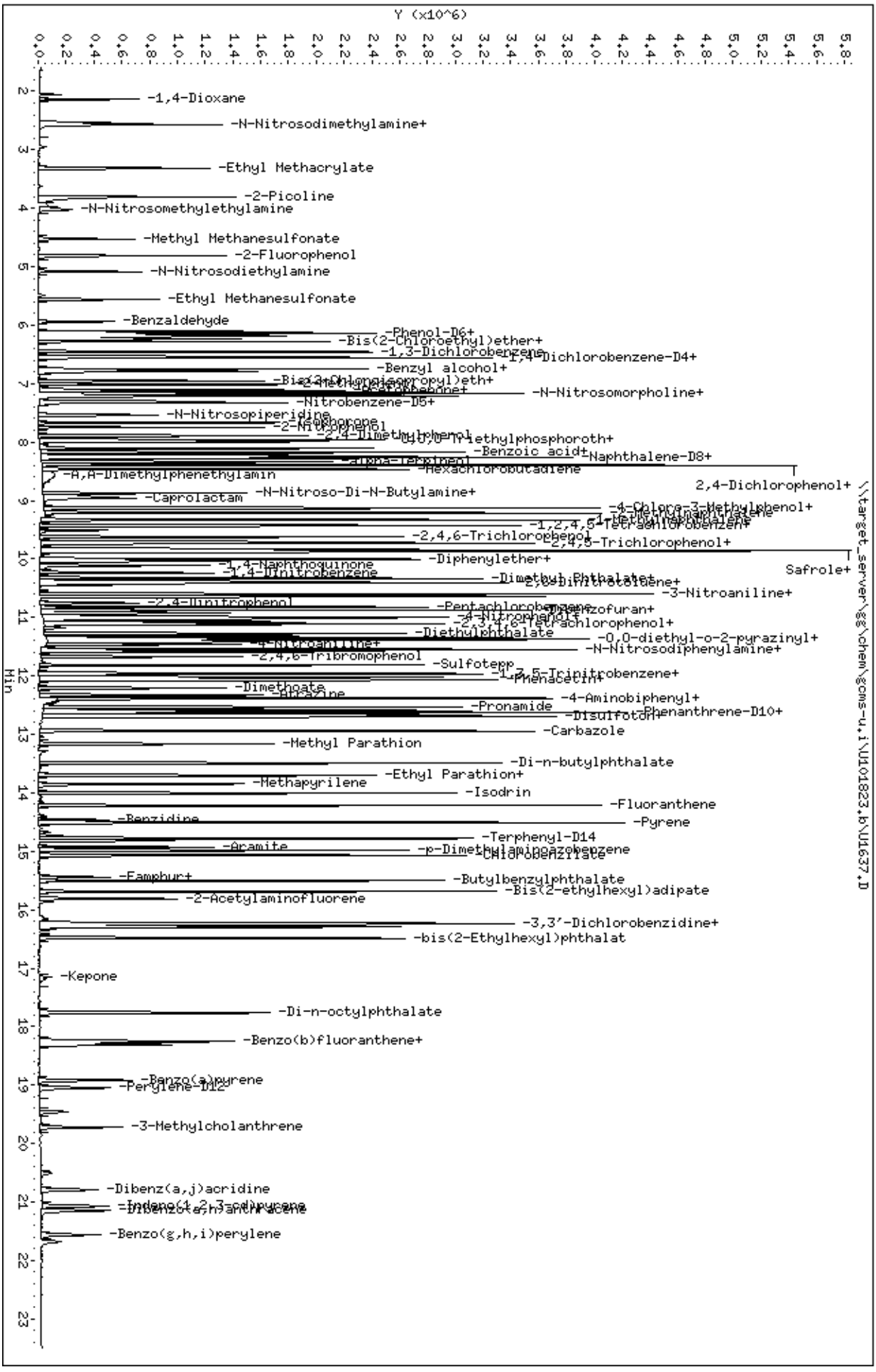
							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	76 1,2-Dinitrobenzene	168	10.443	10.483	(0.985)	161370	50.0000	46.0(a)	
	77 3-Nitroaniline	138	10.609	10.648	(1.001)	428977	50.0000	51.1(a)	
*	78 Acenaphthene-D10	164	10.599	10.607	(1.000)	992282	40.0000		
	79 Acenaphthene	153	10.640	10.659	(1.004)	1275594	50.0000	56.1(a)	
	80 2,4-Dinitrophenol	184	10.754	10.793	(1.015)	242633	50.0000	46.4(a)	
	81 Pentachlorobenzene	250	10.826	10.845	(1.021)	594451	50.0000	52.4(a)	
	82 4-Nitrophenol	109	10.961	10.979	(1.034)	113400	50.0000	26.9(a)	
	83 Dibenzofuran	168	10.878	10.897	(1.026)	1774004	50.0000	52.0(a)	
	84 2,4-Dinitrotoluene	165	10.930	10.969	(1.031)	555145	50.0000	53.4(a)	
	85 1-Naphthylamine	143	11.002	11.021	(1.038)	1431267	50.0000	52.5(a)	
	86 2,3,5,6-Tetrachlorophenol	232	11.023	11.052	(1.040)	337487	50.0000	43.9(a)	
	87 2,3,4,6-Tetrachlorophenol	232	11.085	11.104	(1.046)	345858	50.0000	45.0(a)	
	88 2-Naphthylamine	143	11.116	11.145	(1.049)	1289227	50.0000	52.2(a)	
	89 Diethylphthalate	149	11.282	11.311	(1.064)	1560168	50.0000	51.7(a)	
	90 O,O-diethyl-o-2-pyrazinylphos	107	11.385	11.424	(1.074)	257950	50.0000	49.6(a)	
	91 Thionazin	107	11.385	11.424	(1.074)	257950	50.0000	49.6(a)	
	92 Fluorene	166	11.344	11.362	(1.070)	1505064	50.0000	53.0(a)	
	93 4-Chlorophenyl-phenylether	204	11.375	11.393	(1.073)	728526	50.0000	51.7(a)	
	94 5-Nitro-O-Toluidine	152	11.416	11.456	(1.077)	548007	50.0000	54.3(a)	
	95 4-Nitroaniline	138	11.437	11.507	(1.079)	454776	50.0000	52.5(a)	
	96 4,6-Dinitro-2-Methylphenol	198	11.468	11.518	(0.910)	293824	50.0000	48.4(a)	
	97 N-Nitrosodiphenylamine	169	11.551	11.580	(0.917)	1269627	50.0000	52.1(a)	
	98 1,2-Diphenylhydrazine	77	11.582	11.600	(0.919)	1167545	50.0000	50.8(a)	
	99 Azobenzene	77	11.582	11.600	(0.919)	1168710	50.0000	50.9(a)	
$	100 2,4,6-Tribromophenol	330	11.675	11.694	(1.102)	192673	50.0000	49.9	
	101 Sulfotepp	97	11.820	11.839	(0.938)	243386	50.0000	52.8(a)	
	102 1,3,5-Trinitrobenzene	213	11.996	12.066	(0.952)	168525	50.0000	51.8(a)	
	103 Diallate	86	11.954	11.973	(0.949)	364942	50.0000	51.7(a)	
	104 Phorate	75	11.965	11.983	(0.950)	745873	50.0000	45.6(aH)	
	105 Phenacetin	108	12.058	12.118	(0.957)	669074	50.0000	49.6(a)	
	106 4-Bromophenyl-phenylether	248	12.027	12.046	(0.955)	421843	50.0000	51.2(a)	
	107 Hexachlorobenzene	284	12.068	12.097	(0.958)	450775	50.0000	53.8(a)	
	108 Dimethoate	87	12.213	12.253	(0.970)	400681	50.0000	55.1(a)	
	109 Atrazine	200	12.337	12.356	(0.979)	346193	50.0000	59.9(a)	
	110 4-Aminobiphenyl	169	12.389	12.418	(0.984)	1271226	50.0000	50.7(a)	
	111 Pentachlorophenol	266	12.379	12.397	(0.983)	294317	50.0000	48.8(a)	
	112 Pentachloronitrobenzene	237	12.368	12.387	(0.982)	204259	50.0000	52.3(a)	
	113 Pronamide	173	12.534	12.563	(0.995)	741146	50.0000	52.1(a)	
*	114 Phenanthrene-D10	188	12.596	12.615	(1.000)	1713604	40.0000		
	115 Disulfoton	88	12.669	12.698	(1.006)	761822	50.0000	55.0(a)	
	116 Phenanthrene	178	12.627	12.656	(1.002)	1880825	50.0000	53.3(a)	
	117 Dinoseb	211	12.658	12.687	(1.005)	390053	50.0000	49.0(a)	
	118 Anthracene	178	12.700	12.729	(1.008)	1999860	50.0000	53.2(a)	
	119 Carbazole	167	12.948	12.967	(1.028)	2023633	50.0000	52.6(a)	
	120 Methyl Parathion	109	13.165	13.174	(1.045)	410108	50.0000	58.5(a)	
	121 Di-n-butylphthalate	149	13.497	13.515	(1.071)	2488324	50.0000	54.2(a)	
	122 Ethyl Parathion	291	13.714	13.733	(1.089)	164279	50.0000	55.1(a)	
	123 Parathion	291	13.714	13.733	(1.089)	164279	50.0000	55.1(a)	
	124 4-Nitroquinoline-1-Oxide	190	13.693	13.712	(1.087)	102265	50.0000	30.6(a)	
	125 Methapyrilene	97	13.849	13.877	(1.099)	567577	50.0000	57.7(a)	
	126 Isodrin	193	14.004	14.012	(1.112)	284853	50.0000	50.7(a)	
	127 Fluoranthene	202	14.221	14.240	(1.129)	2096871	50.0000	50.0(a)	
	128 Pyrene	202	14.511	14.530	(0.893)	2122611	50.0000	60.0(a)	
	129 Benzidine	184	14.459	14.467	(0.890)	276839	50.0000	28.7(a)	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
$	130 Terphenyl-D14	244	14.790	14.799	(0.910)	1629725	50.0000	62.8	
	131 Aramite	185	14.925	14.933	(0.918)	161366	50.0000	67.3(a)	
	132 p-Dimethylaminoazobenzene	225	14.987	15.006	(0.922)	460669	50.0000	58.3(a)	
	133 Chlorobenzilate	251	15.070	15.088	(0.927)	652113	50.0000	56.9(a)	
	135 3,3'-Dimethylbenzidine	212	15.442	15.451	(0.950)	256281	50.0000	38.5(a)	
	136 Butylbenzylphthalate	149	15.505	15.513	(0.954)	1170373	50.0000	61.3(a)	
	137 Bis(2-ethylhexyl)adipate	129	15.691	15.709	(0.966)	1047896	50.0000	61.4(a)	
	138 2-Acetylaminofluorene	181	15.815	15.834	(0.973)	349307	50.0000	35.5(a)	
	139 3,3'-Dichlorobenzidine	252	16.250	16.258	(1.000)	274274	50.0000	30.3(a)	
	140 Benzo(a)anthracene	228	16.229	16.248	(0.999)	1481132	50.0000	52.3(a)	
*	141 Chrysene-D12	240	16.250	16.268	(1.000)	913914	40.0000		
	142 Chrysene	228	16.291	16.310	(1.003)	1344308	50.0000	51.8(a)	
	143 bis(2-Ethylhexyl)phthalate	149	16.488	16.496	(1.015)	1646042	50.0000	64.4(a)	
	145 Di-n-octylphthalate	149	17.761	17.769	(0.933)	1990424	50.0000	78.4(a)	
	146 Benzo(b)fluoranthene	252	18.247	18.256	(0.958)	692774	50.0000	54.0(a)	
	148 7,12-Dimethylbenz(A)Anthracen	256	18.258	18.276	(0.959)	371020	50.0000	56.6(a)	
	149 Benzo(k)fluoranthene	252	18.309	18.328	(0.961)	682931	50.0000	55.1(aH)	
	150 Benzo(a)pyrene	252	18.920	18.928	(0.993)	522577	50.0000	52.8(a)	
*	151 Perylene-D12	264	19.044	19.053	(1.000)	348770	40.0000		
	152 3-Methylcholanthrene	268	19.727	19.736	(1.036)	258338	50.0000	58.0(a)	
	153 Dibenz(a,j)acridine	279	20.793	20.802	(1.092)	329910	50.0000	65.8(a)	
	154 Indeno(1,2,3-cd)pyrene	276	21.073	21.081	(1.107)	368050	50.0000	64.8(a)	
	155 Dibenzo(a,h)anthracene	278	21.145	21.164	(1.110)	362962	50.0000	64.6(a)	
	156 Benzo(g,h,i)perylene	276	21.570	21.578	(1.133)	369385	50.0000	65.4(a)	
M	157 Total PAHs	100				23357444	850.000	992	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101823,b\U1637.D
Date : 18-OCT-2023 20:36
Client ID:
Sample Info: WG344071-9
Volume Injected (uL): 1.0
Column phase: Rxi-5ViOms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101823,b\U1637.D
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-Ethyl Methacrylate
-2-Picoline
-N-Nitrosomethylethylamine
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Phenol-D6+
-Bis(2-Chloroethyl)ether+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-Nitrobenzene-D5+
-N-Nitrosomorpholine+
-N-Nitrosopiperidine
-Naphthalene-D8+
-Hexachlorobutadiene
-A,A-Dimethylphenethylamin
2,4-Dichlorophenol+
-Caprolactam
-N-Nitroso-Di-N-Butylamine+
-4-Chloro-3-Methylphenol+
-2,4,6-Trichlorophenol
2,4,5-Trichlorophenol+
-Diphenylether+
Safrole+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-3-Nitroaniline+
-2,4-Dinitrophenol
-Pentachlorobenzene
-4-Nitrophenol+
-2,3,4,6-Tetrachlorophenol+
-Diethylphthalate
-O,O-diethyl-o-2-pyrazinyl+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-Sulfotepp
-1,3,5-Trinitrobenzene+
-Phenacetin+
-Dimethoate
-4-Aminobiphenyl+
-Pronamide
-Phenanthrene-D10+
-Disulfoton+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Famphur+
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-3,3'-Dichlorobenzidine+
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Benzo(g,h,i)perylene

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services **SDG:** SQ5108
Lab ID: WG344145-2 **Analytical Date:** 10/19/23 13:49
Lab File ID: U1642.D **Instrument ID:** GCMS-U
Initial Calibration Date(s): 10/18/23 10:13 10/18/23 12:47 **Column ID:**

Compound	RRF/Amount	RF50	CCAL RRF50	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Pyridine	1.03467	1.06946	1.06946	0.010	3.36188	20.000	Averaged	
1,4-Dichlorobenzene	50.00000	51.84349	1.32255	0.010	3.68699	20.010	Quadratic	
2-Methylphenol	1.04252	1.00097	1.00097	0.010	-3.98539	20.000	Averaged	
3&4-Methylphenol	1.00238	1.01607	1.01607	0.010	1.36584	20.000	Averaged	
Hexachloroethane	50.00000	52.21790	0.52066	0.010	4.43581	20.000	Quadratic	
Nitrobenzene	0.29107	0.28502	0.28502	0.010	-2.07787	20.000	Averaged	
Hexachlorobutadiene	50.00000	49.10930	0.19234	0.010	-1.78140	20.010	Quadratic	
2,4,6-Trichlorophenol	0.38153	0.38302	0.38302	0.010	0.38990	20.000	Averaged	
2,4,5-Trichlorophenol	0.41018	0.39663	0.39663	0.010	-3.30417	20.000	Averaged	
2,4-Dinitrotoluene	0.41939	0.42624	0.42624	0.010	1.63229	20.000	Averaged	
Hexachlorobenzene	50.00000	52.95678	0.20771	0.010	5.91357	20.000	Quadratic	
Pentachlorophenol	0.14080	0.12750	0.12750	0.010	-9.44644	20.000	Averaged	
2-Fluorophenol	1.09730	1.11556	1.11556	0.010	1.66394	20.000	Averaged	
Phenol-D6	1.10447	1.14144	1.14144	0.010	3.34702	20.000	Averaged	
Nitrobenzene-D5	0.30323	0.29982	0.29982	0.010	-1.12522	20.000	Averaged	
2-Fluorobiphenyl	50.00000	53.25066	1.16301	0.010	6.50132	20.000	Quadratic	
2,4,6-Tribromophenol	0.15570	0.14855	0.14855	0.010	-4.59273	20.000	Averaged	
Terphenyl-D14	1.13598	1.17411	1.17411	0.010	3.35630	20.000	Averaged	

*** = Compound out of QC criteria**

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P.O. Box 540, Scarborough, ME 04070
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http://katahdinlab.com
sales@katahdinlab.com

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1642.D
Report Date: 16-Nov-2023 15:12

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101923.b\U1642.D
Lab Smp Id: WG344145-2
Inj Date : 19-OCT-2023 13:49
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344145-2
Misc Info : WG344145,WG344145,WG344071-4,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101923.b\U8270C20.m
Meth Date : 20-Oct-2023 07:36 dtasker   Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47   Cal File: U1622.D
Als bottle: 2   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all_DOD5.sub
Target Version: 4.12
Processing Host: TECHN0VA-01

Concentration Formula: Amt * DF * Uf*(Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.142	2.182	(0.260)	135794	50.0000	50.3(a)	
	2 N-Nitrosodimethylamine	42	2.545	2.617	(0.389)	214235	50.0000	51.3(a)	
	3 Pyridine	79	2.566	2.627	(0.392)	687017	50.0000	51.7(a)	
	4 Ethyl Methacrylate	69	3.322	3.362	(0.508)	539581	50.0000	52.0(a)	
	5 2-Picoline	93	3.798	3.828	(0.581)	812329	50.0000	50.1(a)	
	6 N-Nitrosomethylethylamine	88	4.036	4.066	(0.617)	307109	50.0000	50.1(a)	
	7 Methyl Methanesulfonate	80	4.533	4.573	(0.693)	359187	50.0000	47.0(a)	
$	8 2-Fluorophenol	112	4.812	4.822	(0.736)	716632	50.0000	50.8(a)	
	9 N-Nitrosodiethylamine	102	5.092	5.122	(0.778)	359335	50.0000	51.5(a)	
	10 Ethyl Methanesulfonate	79	5.568	5.598	(0.851)	482961	50.0000	49.4(a)	
	11 Benzaldehyde	77	5.951	5.950	(0.910)	112006	50.0000	43.7(a)	
$	12 Phenol-D6	99	6.178	6.188	(0.945)	733258	50.0000	51.7(a)	
	13 Aniline	93	6.116	6.136	(0.935)	926140	50.0000	50.4(a)	
	14 Phenol	94	6.189	6.209	(0.946)	840709	50.0000	53.5(a)	
	15 Pentachloroethane	117	6.147	6.157	(0.940)	296982	50.0000	51.8(a)	
	16 Bis(2-Chloroethyl)ether	93	6.240	6.260	(0.954)	587226	50.0000	49.4(a)	
	17 2-Chlorophenol	128	6.282	6.291	(0.960)	783245	50.0000	51.2(a)	
	18 1,3-Dichlorobenzene	146	6.458	6.467	(0.987)	887003	50.0000	51.5(a)	
*	19 1,4-Dichlorobenzene-D4	152	6.541	6.550	(1.000)	513919	40.0000		
	20 1,4-Dichlorobenzene	146	6.561	6.571	(1.003)	849603	50.0000	51.8(a)	
	21 Benzyl alcohol	108	6.789	6.819	(1.038)	464759	50.0000	48.6(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1642.D
Report Date: 16-Nov-2023 15:12

							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	22 1,2-Dichlorobenzene	146	6.758	6.767	(1.033)	858713	50.0000	51.5(a)	
	23 Bis(2-Chloroisopropyl)ether	45	6.955	6.974	(1.063)	567168	50.0000	52.3(a)	
	24 2,2'-Oxybis(1-chloropropane)	45	6.955	6.974	(1.063)	567168	50.0000	52.3(a)	
	25 2-Methylphenol	108	7.006	7.047	(1.071)	643022	50.0000	48.0(a)	
	26 Acetophenone	105	7.120	7.140	(0.863)	924396	50.0000	49.2(a)	
	27 N-Nitrosopyrrolidine	100	7.110	7.192	(1.087)	338446	50.0000	50.4(a)	
	28 N-Nitrosomorpholine	56	7.172	7.223	(1.097)	235165	50.0000	51.3(a)	
	29 N-Nitroso-di-n-propylamine	70	7.162	7.202	(1.095)	346571	50.0000	46.6(a)	
	30 3&4-Methylphenol	108	7.213	7.244	(1.103)	652725	50.0000	50.7(a)	
	31 o-Toluidine	106	7.162	7.181	(1.095)	934433	50.0000	49.9(a)	
	32 Hexachloroethane	117	7.203	7.212	(1.101)	334474	50.0000	52.2(a)	
$	33 Nitrobenzene-D5	82	7.306	7.326	(0.886)	604762	50.0000	49.4	
	34 Nitrobenzene	77	7.327	7.357	(0.888)	574923	50.0000	49.0(a)	
	35 N-Nitrosopiperidine	114	7.545	7.575	(0.915)	387893	50.0000	50.9(a)	
	36 Isophorone	82	7.669	7.699	(0.930)	1103561	50.0000	49.1(a)	
	37 2-Nitrophenol	139	7.752	7.771	(0.940)	446322	50.0000	48.4(a)	
	38 2,4-Dimethylphenol	107	7.896	7.916	(0.957)	535575	50.0000	51.0(a)	
	39 O,O,O-Triethylphosphorothioat	198	7.979	7.999	(0.967)	369085	50.0000	49.7(a)	
	40 Bis(2-Chloroethoxy)methane	93	8.000	8.020	(0.970)	897932	50.0000	53.9(a)	
	41 Benzoic acid	105	8.279	8.237	(1.004)	49088	50.0000	6.76(a)	
	42 2,4-Dichlorophenol	162	8.404	8.423	(1.019)	593784	50.0000	54.6(a)	
	43 1,2,4-Trichlorobenzene	180	8.186	8.196	(0.992)	705746	50.0000	52.1(a)	
*	44 Naphthalene-D8	136	8.248	8.257	(1.000)	1613689	40.0000		
	45 Naphthalene	128	8.269	8.289	(1.002)	1867630	50.0000	53.4(a)	
	46 alpha-Terpineol	59	8.342	8.372	(1.011)	361681	50.0000	50.3(a)	
	47 4-Chloroaniline	127	8.393	8.413	(1.018)	742068	50.0000	47.0(a)	
	48 2,6-Dichlorophenol	162	8.404	8.423	(1.019)	593784	50.0000	54.6(a)	
	49 Hexachloropropene	213	8.393	8.403	(1.018)	448435	50.0000	49.0(a)	
	50 Hexachlorobutadiene	225	8.466	8.475	(1.026)	387980	50.0000	49.1(a)	
	51 A,A-Dimethylphenethylamine	58	8.528	8.528	(1.034)	556052	50.0000	182(aA)	
	52 N-Nitroso-Di-N-Butylamine	84	8.880	8.910	(1.077)	406761	50.0000	48.8(a)	
	53 p-Phenylenediamine	108	8.890	8.931	(1.078)	449785	50.0000	51.8(a)	
	54 Caprolactam	113	8.952	9.024	(1.085)	202334	50.0000	49.9(a)	
	55 4-Chloro-3-Methylphenol	107	9.118	9.148	(1.105)	511859	50.0000	46.0(a)	
	56 Isosafrole	162	9.128	9.148	(1.107)	585974	50.0000	49.1(a)	
	57 2-Methylnaphthalene	142	9.211	9.220	(1.117)	1307986	50.0000	51.2(a)	
	58 1-Methylnaphthalene	142	9.335	9.355	(1.132)	1245675	50.0000	51.2(a)	
	59 1,2,4,5-Tetrachlorobenzene	216	9.439	9.448	(0.891)	621637	50.0000	51.7(a)	
	60 Hexachlorocyclopentadiene	237	9.428	9.438	(0.890)	288170	50.0000	45.0(a)	
	61 2,4,6-Trichlorophenol	196	9.625	9.645	(0.908)	451601	50.0000	50.2(a)	
	62 2,4,5-Trichlorophenol	196	9.708	9.717	(0.916)	467647	50.0000	48.3(a)	
$	63 2-Fluorobiphenyl	172	9.728	9.748	(0.918)	1371249	50.0000	53.2	
	64 Safrole	104	9.832	9.852	(0.928)	232417	50.0000	51.9(a)	
	65 1,1'-Biphenyl	154	9.863	9.883	(0.931)	1379472	50.0000	54.0(a)	
	66 2-Chloronaphthalene	127	9.863	9.883	(0.931)	550622	50.0000	46.5(aH)	
	67 1-Chloronaphthalene	127	9.884	9.904	(0.933)	454907	50.0000	51.4(a)	
	68 Diphenylether	170	10.008	10.017	(0.944)	923330	50.0000	50.6(a)	
	69 2-Nitroaniline	65	10.039	10.048	(0.947)	344981	50.0000	54.1(a)	
	70 1,4-Naphthoquinone	158	10.111	10.121	(0.954)	305834	50.0000	48.2(a)	
	71 1,4-Dinitrobenzene	168	10.236	10.266	(0.966)	241516	50.0000	49.1(a)	
	72 Dimethyl Phthalate	163	10.329	10.359	(0.975)	1399724	50.0000	49.5(a)	
	73 1,3-Dinitrobenzene	168	10.339	10.380	(0.976)	255570	50.0000	50.1(a)	
	74 2,6-Dinitrotoluene	165	10.380	10.411	(0.979)	361258	50.0000	52.4(a)	
	75 Acenaphthylene	152	10.412	10.421	(0.982)	1924240	50.0000	53.0(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1642.D
Report Date: 16-Nov-2023 15:12

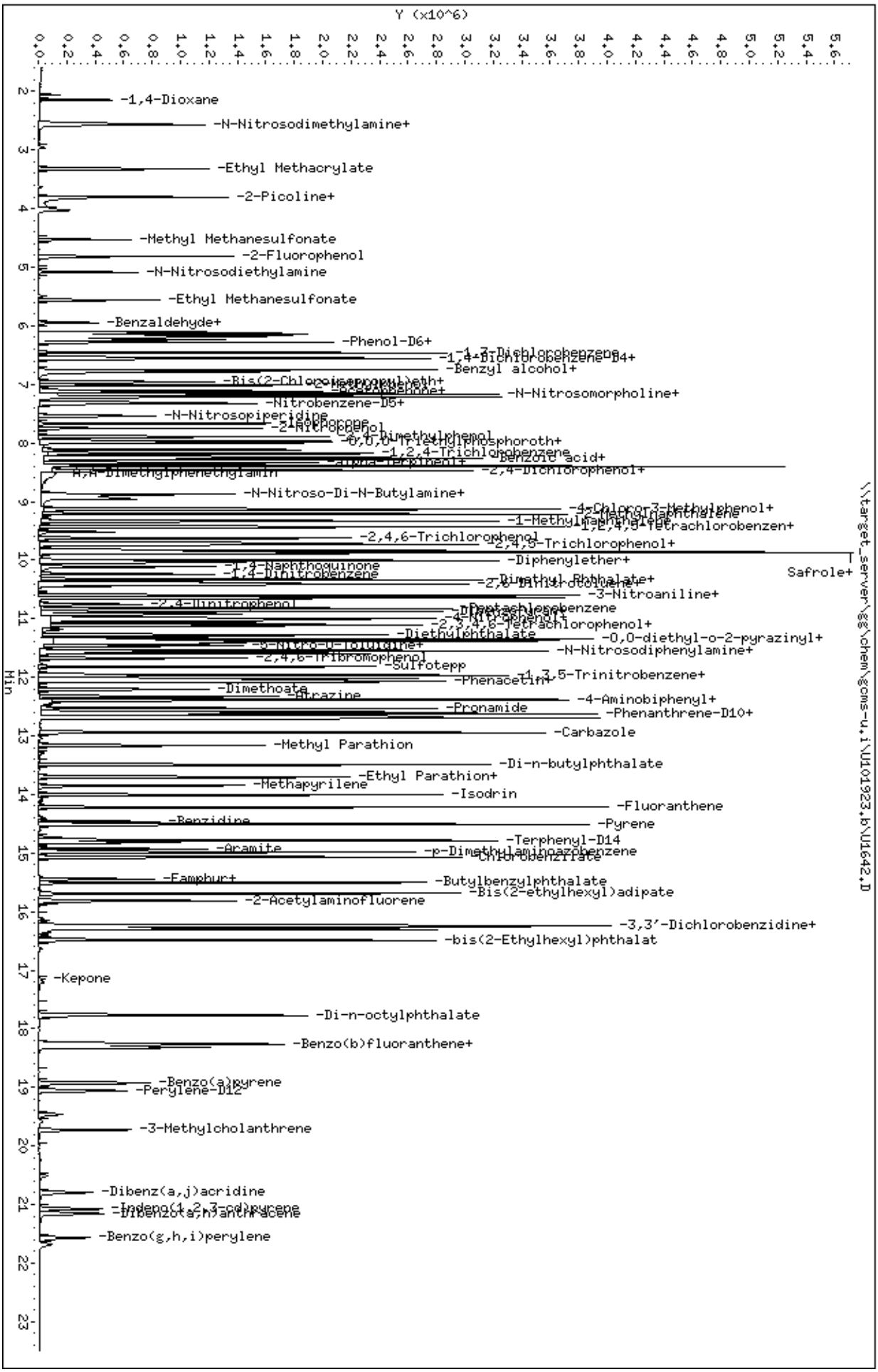
							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	76 1,2-Dinitrobenzene	168	10.443	10.483	(0.985)	155836	50.0000	46.7(a)	
	77 3-Nitroaniline	138	10.598	10.649	(1.000)	385932	50.0000	48.4(a)	
*	78 Acenaphthene-D10	164	10.598	10.607	(1.000)	943240	40.0000		
	79 Acenaphthene	153	10.650	10.659	(1.005)	1167509	50.0000	53.5(a)	
	80 2,4-Dinitrophenol	184	10.753	10.794	(1.015)	230387	50.0000	46.4(a)	
	81 Pentachlorobenzene	250	10.826	10.845	(1.021)	535152	50.0000	49.6(a)	
	82 4-Nitrophenol	109	10.960	10.980	(1.034)	106036	50.0000	26.3(a)	
	83 Dibenzofuran	168	10.877	10.897	(1.026)	1739967	50.0000	54.4(a)	
	84 2,4-Dinitrotoluene	165	10.929	10.970	(1.031)	502554	50.0000	50.8(a)	
	85 1-Naphthylamine	143	11.001	11.021	(1.038)	1314467	50.0000	50.8(a)	
	86 2,3,5,6-Tetrachlorophenol	232	11.022	11.052	(1.040)	331155	50.0000	45.4(a)	
	87 2,3,4,6-Tetrachlorophenol	232	11.084	11.104	(1.046)	330806	50.0000	45.3(a)	
	88 2-Naphthylamine	143	11.115	11.146	(1.049)	1224793	50.0000	52.2(a)	
	89 Diethylphthalate	149	11.281	11.311	(1.064)	1456901	50.0000	50.8(a)	
	90 O,O-diethyl-o-2-pyrazinylphos	107	11.384	11.425	(1.074)	251122	50.0000	50.8(a)	
	91 Thionazin	107	11.384	11.425	(1.074)	251122	50.0000	50.8(a)	
	92 Fluorene	166	11.343	11.363	(1.070)	1370442	50.0000	50.8(a)	
	93 4-Chlorophenyl-phenylether	204	11.374	11.394	(1.073)	656676	50.0000	49.0(a)	
	94 5-Nitro-O-Toluidine	152	11.415	11.456	(1.077)	505205	50.0000	52.6(a)	
	95 4-Nitroaniline	138	11.436	11.508	(1.079)	400436	50.0000	48.7(a)	
	96 4,6-Dinitro-2-Methylphenol	198	11.467	11.518	(0.910)	277056	50.0000	47.5(a)	
	97 N-Nitrosodiphenylamine	169	11.550	11.580	(0.917)	1194705	50.0000	50.7(a)	
	98 1,2-Diphenylhydrazine	77	11.591	11.601	(0.920)	1126765	50.0000	51.1(a)	
	99 Azobenzene	77	11.591	11.601	(0.920)	1126765	50.0000	51.1(a)	
$	100 2,4,6-Tribromophenol	330	11.674	11.694	(1.102)	175150	50.0000	47.7	
	101 Sulfotepp	97	11.819	11.839	(0.938)	225316	50.0000	50.6(a)	
	102 1,3,5-Trinitrobenzene	213	12.005	12.067	(0.953)	166228	50.0000	53.2(a)	
	103 Diallate	86	11.954	11.974	(0.949)	348382	50.0000	51.4(a)	
	104 Phorate	75	11.964	11.984	(0.950)	766700	50.0000	48.8(aH)	
	105 Phenacetin	108	12.057	12.118	(0.957)	679434	50.0000	52.4(a)	
	106 4-Bromophenyl-phenylether	248	12.026	12.046	(0.955)	398628	50.0000	50.2(a)	
	107 Hexachlorobenzene	284	12.078	12.098	(0.959)	427020	50.0000	53.0(a)	
	108 Dimethoate	87	12.212	12.253	(0.970)	373920	50.0000	53.6(a)	
	109 Atrazine	200	12.326	12.357	(0.979)	314370	50.0000	56.7(aH)	
	110 4-Aminobiphenyl	169	12.388	12.419	(0.984)	1257003	50.0000	52.2(a)	
	111 Pentachlorophenol	266	12.378	12.398	(0.983)	262122	50.0000	45.3(a)	
	112 Pentachloronitrobenzene	237	12.378	12.388	(0.983)	188724	50.0000	50.4(a)	
	113 Pronamide	173	12.533	12.564	(0.995)	703078	50.0000	51.4(a)	
*	114 Phenanthrene-D10	188	12.595	12.615	(1.000)	1644642	40.0000		
	115 Disulfoton	88	12.668	12.698	(1.006)	723023	50.0000	54.3(a)	
	116 Phenanthrene	178	12.626	12.657	(1.002)	1767913	50.0000	51.9(a)	
	117 Dinoseb	211	12.658	12.688	(1.005)	380169	50.0000	49.8(a)	
	118 Anthracene	178	12.699	12.729	(1.008)	1859751	50.0000	51.0(a)	
	119 Carbazole	167	12.947	12.967	(1.028)	1870381	50.0000	49.6(a)	
	120 Methyl Parathion	109	13.165	13.174	(1.045)	358551	50.0000	53.3(a)	
	121 Di-n-butylphthalate	149	13.496	13.516	(1.071)	2342493	50.0000	52.6(a)	
	122 Ethyl Parathion	291	13.713	13.733	(1.089)	148660	50.0000	52.0(a)	
	123 Parathion	291	13.713	13.733	(1.089)	148660	50.0000	52.0(a)	
	124 4-Nitroquinoline-1-Oxide	190	13.693	13.712	(1.087)	122730	50.0000	38.2(a)	
	125 Methapyrilene	97	13.848	13.878	(1.099)	533866	50.0000	56.5(a)	
	126 Isodrin	193	14.003	14.013	(1.112)	265791	50.0000	48.9(a)	
	127 Fluoranthene	202	14.220	14.240	(1.129)	1962926	50.0000	48.1(a)	
	128 Pyrene	202	14.510	14.530	(0.892)	2057932	50.0000	51.7(a)	
	129 Benzidine	184	14.458	14.468	(0.889)	445351	50.0000	41.1(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1642.D
Report Date: 16-Nov-2023 15:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
$	130 Terphenyl-D14	244	14.790	14.799	(0.910)	1509578	50.0000	51.7	
	131 Aramite	185	14.924	14.934	(0.918)	150904	50.0000	55.9(a)	
	132 p-Dimethylaminoazobenzene	225	14.986	15.006	(0.922)	445198	50.0000	50.1(a)	
	133 Chlorobenzilate	251	15.069	15.089	(0.927)	646902	50.0000	50.2(a)	
	135 3,3'-Dimethylbenzidine	212	15.442	15.451	(0.950)	370599	50.0000	49.5(a)	
	136 Butylbenzylphthalate	149	15.504	15.513	(0.954)	1188730	50.0000	55.3(a)	
	137 Bis(2-ethylhexyl)adipate	129	15.690	15.710	(0.965)	992421	50.0000	51.7(a)	
	138 2-Acetylaminofluorene	181	15.814	15.834	(0.973)	473830	50.0000	42.7(a)	
	139 3,3'-Dichlorobenzidine	252	16.249	16.259	(0.999)	376464	50.0000	40.7(a)	
	140 Benzo(a)anthracene	228	16.239	16.248	(0.999)	1610667	50.0000	50.5(a)	
*	141 Chrysene-D12	240	16.259	16.268	(1.000)	1028580	40.0000		
	142 Chrysene	228	16.301	16.309	(1.003)	1461566	50.0000	50.1(a)	
	143 bis(2-Ethylhexyl)phthalate	149	16.487	16.497	(1.014)	1638012	50.0000	57.0(a)	
	145 Di-n-octylphthalate	149	17.770	17.770	(0.933)	2280158	50.0000	70.9(a)	
	146 Benzo(b)fluoranthene	252	18.257	18.256	(0.958)	879575	50.0000	54.1(a)	
	148 7,12-Dimethylbenz(A)Anthracen	256	18.267	18.277	(0.959)	469184	50.0000	56.4(a)	
	149 Benzo(k)fluoranthene	252	18.319	18.329	(0.961)	858548	50.0000	54.6(aH)	
	150 Benzo(a)pyrene	252	18.930	18.929	(0.993)	645370	50.0000	51.4(a)	
*	151 Perylene-D12	264	19.054	19.053	(1.000)	442103	40.0000		
	152 3-Methylcholanthrene	268	19.737	19.736	(1.036)	307339	50.0000	54.4(a)	
	153 Dibenz(a,j)acridine	279	20.793	20.802	(1.091)	321716	50.0000	52.6(a)	
	154 Indeno(1,2,3-cd)pyrene	276	21.072	21.082	(1.106)	362272	50.0000	52.2(a)	
	155 Dibenzo(a,h)anthracene	278	21.155	21.164	(1.110)	363017	50.0000	52.7(a)	
	156 Benzo(g,h,i)perylene	276	21.569	21.578	(1.132)	350765	50.0000	51.2(a)	
M	157 Total PAHs	100				23063784	850.000	933	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101923,b\U1642.D
Date : 19-OCT-2023 13:49
Client ID:
Sample Info: WG344145-2
Volume Injected (uL): 1.0
Column phase: Rxi-5VOCms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101923,b\U1642.D
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde+
-Phenol-D6+
-Benzyl alcohol+
-N-Nitrosomorpholine+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-2-Nitrophenol
-2,4-Dimethylphenol
-1,2,4-Trichlorobenzene
-Benzoic acid+
-2,4-Dichlorophenol+
-N-Nitroso-Di-N-Butylamine+
-4-Chloro-3-Methylphenol+
-2-Methylnaphthalene
-1-Methylnaphthalene
-2,4,6-Trichlorophenol
-2,4,5-Trichlorophenol+
-Diphenylether+
Safrole+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-3-Nitroaniline+
-2,4-Dinitrophenol
-Hexachlorobenzene
-2,3,4,6-Tetrachlorophenol+
-Diethylphthalate
-O,O-diethyl-o-2-pyrazinyl+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-Sulfotepp
-1,3,5-Trinitrobenzene+
-Phenacetin+
-Dimethoate
-Atrazine
-4-Aminobiphenyl+
-Pronamide
-Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Famphur+
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-3,3'-Dichlorobenzidine+
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene
-Dibenz(a,h)anthracene
-Benzo(g,h,i)perylene

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG344145-3
Analytical Date: 10/19/23 23:49
Lab File ID: U1661.D
Instrument ID: GCMS-U
Initial Calibration Date(s): 10/18/23 10:13 10/18/23 12:47
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Pyridine	1.03467	1.06087	1.06087	0.010	2.53191	20.000	Averaged	
1,4-Dichlorobenzene	50.00000	52.71879	1.34143	0.010	5.43759	20.010	Quadratic	
2-Methylphenol	1.04252	0.98897	0.98897	0.010	-5.13637	20.000	Averaged	
3&4-Methylphenol	1.00238	1.01939	1.01939	0.010	1.69696	20.000	Averaged	
Hexachloroethane	50.00000	51.80609	0.51747	0.010	3.61217	20.000	Quadratic	
Nitrobenzene	0.29107	0.29765	0.29765	0.010	2.26015	20.000	Averaged	
Hexachlorobutadiene	50.00000	48.97891	0.19192	0.010	-2.04218	20.010	Quadratic	
2,4,6-Trichlorophenol	0.38153	0.37965	0.37965	0.010	-0.49332	20.000	Averaged	
2,4,5-Trichlorophenol	0.41018	0.40133	0.40133	0.010	-2.15801	20.000	Averaged	
2,4-Dinitrotoluene	0.41939	0.43598	0.43598	0.010	3.95560	20.000	Averaged	
Hexachlorobenzene	50.00000	51.87868	0.20403	0.010	3.75736	20.000	Quadratic	
Pentachlorophenol	0.14080	0.12657	0.12657	0.010	-10.11216	20.000	Averaged	
2-Fluorophenol	1.09730	1.12204	1.12204	0.010	2.25526	20.000	Averaged	
Phenol-D6	1.10447	1.12719	1.12719	0.010	2.05749	20.000	Averaged	
Nitrobenzene-D5	0.30323	0.30242	0.30242	0.010	-0.26759	20.000	Averaged	
2-Fluorobiphenyl	50.00000	50.79273	1.12175	0.010	1.58547	20.000	Quadratic	
2,4,6-Tribromophenol	0.15570	0.15286	0.15286	0.010	-1.82612	20.000	Averaged	
Terphenyl-D14	1.13598	1.19746	1.19746	0.010	5.41211	20.000	Averaged	

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1661.D
Report Date: 16-Nov-2023 15:12

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101923.b\U1661.D
Lab Smp Id: WG344145-3
Inj Date : 19-OCT-2023 23:49
Operator : DT   Inst ID: gcms-u.i
Smp Info : WG344145-3
Misc Info : WG344145,WG344145,WG344071-4,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U101923.b\U8270C20.m
Meth Date : 20-Oct-2023 07:36 dtasker   Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47   Cal File: U1622.D
Als bottle: 2   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all_DOD5.sub
Target Version: 4.12
Processing Host: TECHN0VA-01

Concentration Formula: Amt * DF * Uf*(Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1	1,4-Dioxane	58	2.132	2.182	(0.259)	145015	50.0000	52.4(a)	
	2	N-Nitrosodimethylamine	42	2.535	2.617	(0.388)	213743	50.0000	49.6(a)	
	3	Pyridine	79	2.556	2.627	(0.391)	704081	50.0000	51.3(a)	
	4	Ethyl Methacrylate	69	3.312	3.362	(0.506)	551524	50.0000	51.4(a)	
	5	2-Picoline	93	3.777	3.828	(0.578)	874636	50.0000	52.2(a)	
	6	N-Nitrosomethylethylamine	88	4.026	4.066	(0.616)	317426	50.0000	50.1(a)	
	7	Methyl Methanesulfonate	80	4.523	4.573	(0.691)	387553	50.0000	49.0(a)	
$	8	2-Fluorophenol	112	4.802	4.822	(0.734)	744683	50.0000	51.1(a)	
	9	N-Nitrosodiethylamine	102	5.081	5.122	(0.777)	361431	50.0000	50.1(a)	
	10	Ethyl Methanesulfonate	79	5.558	5.598	(0.850)	501106	50.0000	49.6(a)	
	11	Benzaldehyde	77	5.941	5.950	(0.908)	118337	50.0000	45.1(a)	
$	12	Phenol-D6	99	6.168	6.188	(0.943)	748101	50.0000	51.0(a)	
	13	Aniline	93	6.116	6.136	(0.935)	991652	50.0000	52.2(a)	
	14	Phenol	94	6.189	6.209	(0.946)	866654	50.0000	53.3(a)	
	15	Pentachloroethane	117	6.148	6.157	(0.940)	303683	50.0000	51.3(a)	
	16	Bis(2-Chloroethyl)ether	93	6.241	6.260	(0.954)	632194	50.0000	51.5(a)	
	17	2-Chlorophenol	128	6.282	6.291	(0.960)	813374	50.0000	51.4(a)	
	18	1,3-Dichlorobenzene	146	6.448	6.467	(0.986)	925190	50.0000	52.1(a)	
*	19	1,4-Dichlorobenzene-D4	152	6.541	6.550	(1.000)	530947	40.0000		
	20	1,4-Dichlorobenzene	146	6.562	6.571	(1.003)	890286	50.0000	52.7(a)	
	21	Benzyl alcohol	108	6.789	6.819	(1.038)	443990	50.0000	44.9(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1661.D
Report Date: 16-Nov-2023 15:12

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	22	1,2-Dichlorobenzene	146	6.748	6.767	(1.032)	890320	50.0000	51.8(a)	
	23	Bis(2-Chloroisopropyl)ether	45	6.955	6.974	(1.063)	571488	50.0000	51.0(a)	
	24	2,2'-Oxybis(1-chloropropane)	45	6.955	6.974	(1.063)	571488	50.0000	51.0(a)	
	25	2-Methylphenol	108	7.007	7.047	(1.071)	656364	50.0000	47.4(a)	
	26	Acetophenone	105	7.110	7.140	(0.863)	926066	50.0000	48.0(a)	
	27	N-Nitrosopyrrolidine	100	7.100	7.192	(1.085)	350819	50.0000	50.6(a)	
	28	N-Nitrosomorpholine	56	7.162	7.223	(1.095)	238090	50.0000	50.2(a)	
	29	N-Nitroso-di-n-propylamine	70	7.162	7.202	(1.095)	377521	50.0000	49.7(a)	
	30	3&4-Methylphenol	108	7.214	7.244	(1.103)	676555	50.0000	50.8(a)	
	31	o-Toluidine	106	7.162	7.181	(1.095)	924646	50.0000	47.8(a)	
	32	Hexachloroethane	117	7.193	7.212	(1.100)	343435	50.0000	51.8(a)	
$	33	Nitrobenzene-D5	82	7.296	7.326	(0.886)	625542	50.0000	49.9	
	34	Nitrobenzene	77	7.327	7.357	(0.889)	615682	50.0000	51.1(a)	
	35	N-Nitrosopiperidine	114	7.534	7.575	(0.915)	376088	50.0000	48.1(a)	
	36	Isophorone	82	7.669	7.699	(0.931)	1080710	50.0000	46.9(a)	
	37	2-Nitrophenol	139	7.752	7.771	(0.941)	483657	50.0000	51.2(a)	
	38	2,4-Dimethylphenol	107	7.886	7.916	(0.957)	529004	50.0000	49.2(a)	
	39	O,O,O-Triethylphosphorothioat	198	7.969	7.999	(0.967)	353935	50.0000	46.4(a)	
	40	Bis(2-Chloroethoxy)methane	93	8.000	8.020	(0.971)	919411	50.0000	53.8(a)	
	41	Benzoic acid	105	8.269	8.237	(1.004)	48085	50.0000	6.46(a)	
	42	2,4-Dichlorophenol	162	8.393	8.423	(1.019)	545035	50.0000	48.8(a)	
	43	1,2,4-Trichlorobenzene	180	8.176	8.196	(0.992)	699883	50.0000	50.1(a)	
*	44	Naphthalene-D8	136	8.238	8.257	(1.000)	1654783	40.0000		
	45	Naphthalene	128	8.269	8.289	(1.004)	1829248	50.0000	50.2(a)	
	46	alpha-Terpineol	59	8.342	8.372	(1.013)	371898	50.0000	50.4(a)	
	47	4-Chloroaniline	127	8.393	8.413	(1.019)	795679	50.0000	50.0(a)	
	48	2,6-Dichlorophenol	162	8.393	8.423	(1.019)	545035	50.0000	48.8(a)	
	49	Hexachloropropene	213	8.393	8.403	(1.019)	461291	50.0000	49.2(a)	
	50	Hexachlorobutadiene	225	8.466	8.475	(1.028)	396979	50.0000	49.0(a)	
	51	A,A-Dimethylphenethylamine	58	8.528	8.528	(1.035)	493526	50.0000	158(aA)	
	52	N-Nitroso-Di-N-Butylamine	84	8.870	8.910	(1.077)	399378	50.0000	46.6(aH)	
	53	p-Phenylenediamine	108	8.890	8.931	(1.079)	427452	50.0000	48.0(a)	
	54	Caprolactam	113	8.942	9.024	(1.085)	206573	50.0000	49.7(a)	
	55	4-Chloro-3-Methylphenol	107	9.118	9.148	(1.107)	518505	50.0000	45.3(a)	
	56	Isosafrole	162	9.128	9.148	(1.108)	573553	50.0000	46.9(a)	
	57	2-Methylnaphthalene	142	9.211	9.220	(1.118)	1352634	50.0000	51.7(a)	
	58	1-Methylnaphthalene	142	9.335	9.355	(1.133)	1242930	50.0000	49.5(a)	
	59	1,2,4,5-Tetrachlorobenzene	216	9.439	9.448	(0.891)	656945	50.0000	55.4(a)	
	60	Hexachlorocyclopentadiene	237	9.428	9.438	(0.890)	289493	50.0000	45.5(a)	
	61	2,4,6-Trichlorophenol	196	9.625	9.645	(0.908)	445872	50.0000	49.8(a)	
	62	2,4,5-Trichlorophenol	196	9.708	9.717	(0.916)	471334	50.0000	48.9(a)	
$	63	2-Fluorobiphenyl	172	9.729	9.748	(0.918)	1317414	50.0000	50.8	
	64	Safrole	104	9.832	9.852	(0.928)	232362	50.0000	52.1(a)	
	65	1,1'-Biphenyl	154	9.853	9.883	(0.930)	1322897	50.0000	52.0(a)	
	66	2-Chloronaphthalene	127	9.863	9.883	(0.931)	629868	50.0000	53.4(aH)	
	67	1-Chloronaphthalene	127	9.884	9.904	(0.933)	437880	50.0000	49.7(a)	
	68	Diphenylether	170	10.008	10.017	(0.944)	946713	50.0000	52.5(a)	
	69	2-Nitroaniline	65	10.029	10.048	(0.946)	329028	50.0000	51.8(a)	
	70	1,4-Naphthoquinone	158	10.112	10.121	(0.954)	379657	50.0000	60.0(a)	
	71	1,4-Dinitrobenzene	168	10.236	10.266	(0.966)	251857	50.0000	51.4(a)	
	72	Dimethyl Phthalate	163	10.329	10.359	(0.975)	1476320	50.0000	52.4(a)	
	73	1,3-Dinitrobenzene	168	10.339	10.380	(0.976)	258262	50.0000	50.8(a)	
	74	2,6-Dinitrotoluene	165	10.381	10.411	(0.979)	357876	50.0000	52.1(a)	
	75	Acenaphthylene	152	10.401	10.421	(0.981)	1893997	50.0000	52.4(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1661.D
Report Date: 16-Nov-2023 15:12

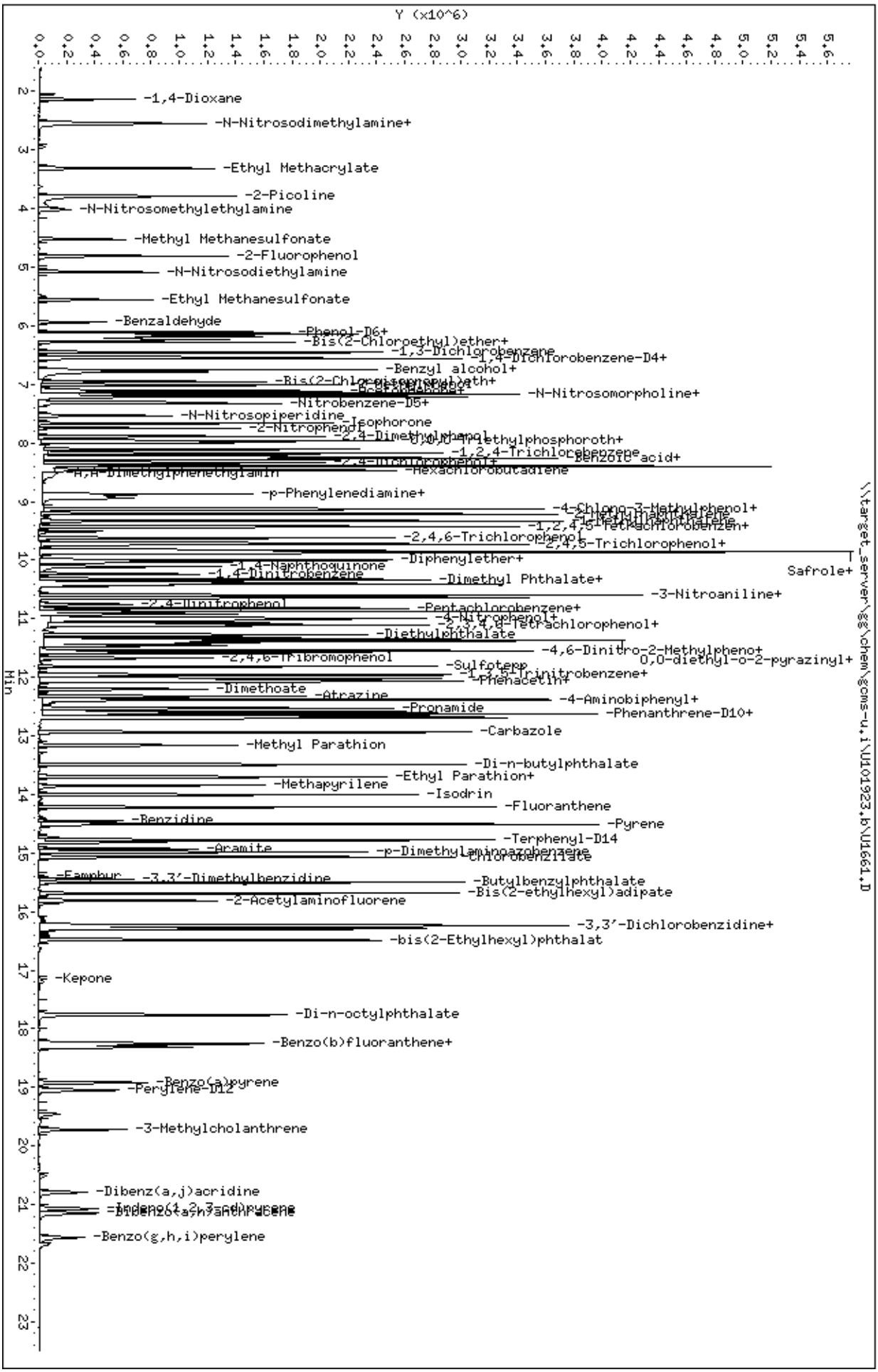
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	76 1,2-Dinitrobenzene	168	10.443	10.483	(0.985)	162197	50.0000	48.8(a)	
	77 3-Nitroaniline	138	10.598	10.649	(1.000)	377182	50.0000	47.4(a)	
*	78 Acenaphthene-D10	164	10.598	10.607	(1.000)	939540	40.0000		
	79 Acenaphthene	153	10.639	10.659	(1.004)	1194103	50.0000	55.3(a)	
	80 2,4-Dinitrophenol	184	10.753	10.794	(1.015)	208213	50.0000	42.1(a)	
	81 Pentachlorobenzene	250	10.826	10.845	(1.021)	555601	50.0000	51.7(a)	
	82 4-Nitrophenol	109	10.960	10.980	(1.034)	104541	50.0000	25.9(a)	
	83 Dibenzofuran	168	10.878	10.897	(1.026)	1672792	50.0000	51.7(a)	
	84 2,4-Dinitrotoluene	165	10.919	10.970	(1.030)	512026	50.0000	52.0(a)	
	85 1-Naphthylamine	143	11.002	11.021	(1.038)	1376268	50.0000	53.4(a)	
	86 2,3,5,6-Tetrachlorophenol	232	11.022	11.052	(1.040)	337960	50.0000	46.5(a)	
	87 2,3,4,6-Tetrachlorophenol	232	11.085	11.104	(1.046)	373022	50.0000	51.3(a)	
	88 2-Naphthylamine	143	11.116	11.146	(1.049)	1265649	50.0000	54.7(a)	
	89 Diethylphthalate	149	11.281	11.311	(1.064)	1470922	50.0000	51.5(a)	
	90 O,O-diethyl-o-2-pyrazinylphos	107	11.385	11.425	(1.074)	247948	50.0000	50.4(a)	
	91 Thionazin	107	11.385	11.425	(1.074)	247948	50.0000	50.4(a)	
	92 Fluorene	166	11.343	11.363	(1.070)	1421465	50.0000	52.8(a)	
	93 4-Chlorophenyl-phenylether	204	11.374	11.394	(1.073)	672074	50.0000	50.4(a)	
	94 5-Nitro-O-Toluidine	152	11.405	11.456	(1.076)	473141	50.0000	49.5(a)	
	95 4-Nitroaniline	138	11.436	11.508	(1.079)	400910	50.0000	48.9(a)	
	96 4,6-Dinitro-2-Methylphenol	198	11.467	11.518	(0.910)	283204	50.0000	48.4(a)	
	97 N-Nitrosodiphenylamine	169	11.550	11.580	(0.917)	1233411	50.0000	52.7(a)	
	98 1,2-Diphenylhydrazine	77	11.581	11.601	(0.919)	1080317	50.0000	48.8(a)	
	99 Azobenzene	77	11.581	11.601	(0.919)	1080317	50.0000	48.8(a)	
$	100 2,4,6-Tribromophenol	330	11.674	11.694	(1.102)	179522	50.0000	49.1	
	101 Sulfotepp	97	11.819	11.839	(0.938)	233721	50.0000	52.6(a)	
	102 1,3,5-Trinitrobenzene	213	11.995	12.067	(0.952)	162557	50.0000	51.8(a)	
	103 Diallate	86	11.954	11.974	(0.949)	354106	50.0000	52.1(a)	
	104 Phorate	75	11.964	11.984	(0.950)	738178	50.0000	46.8(aH)	
	105 Phenacetin	108	12.047	12.118	(0.956)	700172	50.0000	53.8(a)	
	106 4-Bromophenyl-phenylether	248	12.026	12.046	(0.955)	401555	50.0000	50.4(a)	
	107 Hexachlorobenzene	284	12.068	12.098	(0.958)	421222	50.0000	51.9(a)	
	108 Dimethoate	87	12.202	12.253	(0.969)	423117	50.0000	60.4(a)	
	109 Atrazine	200	12.327	12.357	(0.979)	321291	50.0000	57.7(aH)	
	110 4-Aminobiphenyl	169	12.389	12.419	(0.984)	1234073	50.0000	51.1(a)	
	111 Pentachlorophenol	266	12.378	12.398	(0.983)	261301	50.0000	44.9(a)	
	112 Pentachloronitrobenzene	237	12.368	12.388	(0.982)	186923	50.0000	49.7(a)	
	113 Pronamide	173	12.523	12.564	(0.994)	688188	50.0000	49.7(a)	
*	114 Phenanthrene-D10	188	12.596	12.615	(1.000)	1651633	40.0000		
	115 Disulfoton	88	12.668	12.698	(1.006)	708651	50.0000	53.0(a)	
	116 Phenanthrene	178	12.627	12.657	(1.002)	1823581	50.0000	53.7(a)	
	117 Dinoseb	211	12.658	12.688	(1.005)	373775	50.0000	48.8(a)	
	118 Anthracene	178	12.689	12.729	(1.007)	1904241	50.0000	52.3(a)	
	119 Carbazole	167	12.937	12.967	(1.027)	1906968	50.0000	50.8(a)	
	120 Methyl Parathion	109	13.155	13.174	(1.044)	400386	50.0000	59.3(a)	
	121 Di-n-butylphthalate	149	13.496	13.516	(1.071)	2391677	50.0000	54.0(a)	
	122 Ethyl Parathion	291	13.703	13.733	(1.088)	151799	50.0000	52.8(a)	
	123 Parathion	291	13.703	13.733	(1.088)	151799	50.0000	52.8(a)	
	124 4-Nitroquinoline-1-Oxide	190	13.693	13.712	(1.087)	133284	50.0000	41.4(a)	
	125 Methapyrilene	97	13.848	13.878	(1.099)	528614	50.0000	55.7(a)	
	126 Isodrin	193	14.003	14.013	(1.112)	267762	50.0000	49.1(a)	
	127 Fluoranthene	202	14.221	14.240	(1.129)	2027647	50.0000	50.3(a)	
	128 Pyrene	202	14.510	14.530	(0.893)	1980333	50.0000	51.5(a)	
	129 Benzidine	184	14.459	14.468	(0.890)	397426	50.0000	37.9(a)	

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\U1661.D
Report Date: 16-Nov-2023 15:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
$	130 Terphenyl-D14	244	14.780	14.799	(0.910)	1488088	50.0000	52.7	
	131 Aramite	185	14.924	14.934	(0.918)	154494	50.0000	59.2(a)	
	132 p-Dimethylaminoazobenzene	225	14.987	15.006	(0.922)	439856	50.0000	51.2(a)	
	133 Chlorobenzilate	251	15.069	15.089	(0.927)	612718	50.0000	49.2(a)	
	135 3,3'-Dimethylbenzidine	212	15.442	15.451	(0.950)	334679	50.0000	46.2(a)	
	136 Butylbenzylphthalate	149	15.504	15.513	(0.954)	1155611	50.0000	55.6(a)	
	137 Bis(2-ethylhexyl)adipate	129	15.690	15.710	(0.966)	976973	50.0000	52.7(a)	
	138 2-Acetylaminofluorene	181	15.815	15.834	(0.973)	470440	50.0000	43.9(a)	
	139 3,3'-Dichlorobenzidine	252	16.249	16.259	(1.000)	344763	50.0000	37.6(a)	
	140 Benzo(a)anthracene	228	16.229	16.248	(0.999)	1532812	50.0000	49.7(a)	
*	141 Chrysene-D12	240	16.249	16.268	(1.000)	994163	40.0000		
	142 Chrysene	228	16.291	16.309	(1.003)	1407212	50.0000	49.9(a)	
	143 bis(2-Ethylhexyl)phthalate	149	16.487	16.497	(1.015)	1594067	50.0000	57.4(a)	
	145 Di-n-octylphthalate	149	17.760	17.770	(0.933)	2203073	50.0000	71.3(a)	
	146 Benzo(b)fluoranthene	252	18.247	18.256	(0.958)	811907	50.0000	52.0(a)	
	148 7,12-Dimethylbenz(A)Anthracen	256	18.268	18.277	(0.959)	446674	50.0000	56.0(a)	
	149 Benzo(k)fluoranthene	252	18.309	18.329	(0.961)	835708	50.0000	55.4(aH)	
	150 Benzo(a)pyrene	252	18.920	18.929	(0.993)	614522	50.0000	51.0(a)	
*	151 Perylene-D12	264	19.044	19.053	(1.000)	424408	40.0000		
	152 3-Methylcholanthrene	268	19.727	19.736	(1.036)	288676	50.0000	53.2(a)	
	153 Dibenz(a,j)acridine	279	20.793	20.802	(1.092)	316850	50.0000	53.8(a)	
	154 Indeno(1,2,3-cd)pyrene	276	21.072	21.082	(1.107)	343721	50.0000	51.7(a)	
	155 Dibenzo(a,h)anthracene	278	21.155	21.164	(1.111)	367069	50.0000	55.1(a)	
	156 Benzo(g,h,i)perylene	276	21.569	21.578	(1.133)	360129	50.0000	54.2(a)	
M	157 Total PAHs	100				22943259	850.000	939	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101923,b\U1661.D
Date : 19-OCT-2023 23:49
Client ID:
Sample Info: WG344145-3
Volume Injected (uL): 1.0
Column phase: Rxi-5ViOms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101923,b\U1661.D
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-Ethyl Methacrylate
-2-Picoline
-N-Nitrosomethylethylamine
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Phenol-D6+
-Bis(2-Chloroethyl)ether+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-N-Nitrosomorpholine+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-1,2,4-Trichlorobenzene
-Benzoic acid+
-Hexachlorobutadiene
-p-Phenylenediamine+
-4-Chloro-3-Methylphenol+
-1,2,4,5-Tetrachlorobenzen+
-2,4,6-Trichlorophenol
-2,4,5-Trichlorophenol+
-Diphenylether+
Safrole+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-3-Nitroaniline+
-2,4-Dinitrophenol
-Pentachlorobenzene+
-4-Nitrophenol+
-2,3,4,6-Tetrachlorophenol+
-Diethylphthalate
-4,6-Dinitro-2-Methylpheno+
-2,4,6-Tribromophenol
O,O-diethyl-o-2-pyrazinyl+
-Sulfotepp
-1,3,5-Trinitrobenzene+
-Phenacetin+
-Dimethoate
-Atrazine
-4-Aminobiphenyl+
-Pronamide
-Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
Chlorobenzilate
-Famphur
-3,3'-Dimethylbenzidine
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-3,3'-Dichlorobenzidine+
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene
-Dibenz(a,h)anthracene
-Benzo(g,h,i)perylene

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\UD935.D

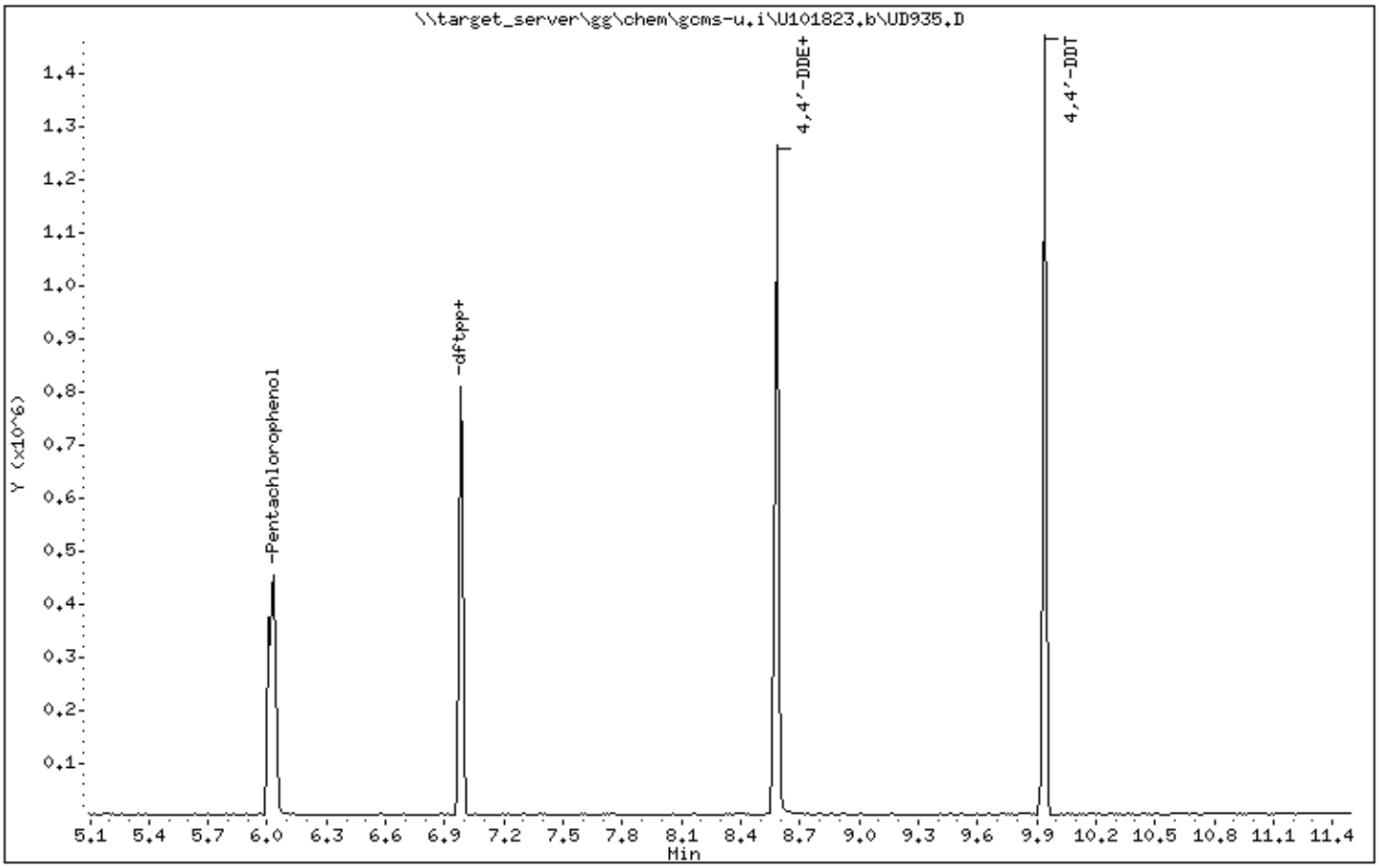
Date : 18-OCT-2023 09:54

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG344071-1

Operator: DT

Column phase: Rxi-SVOCms Column diameter: 0.25



Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\UD935.D

Date : 18-OCT-2023 09:54

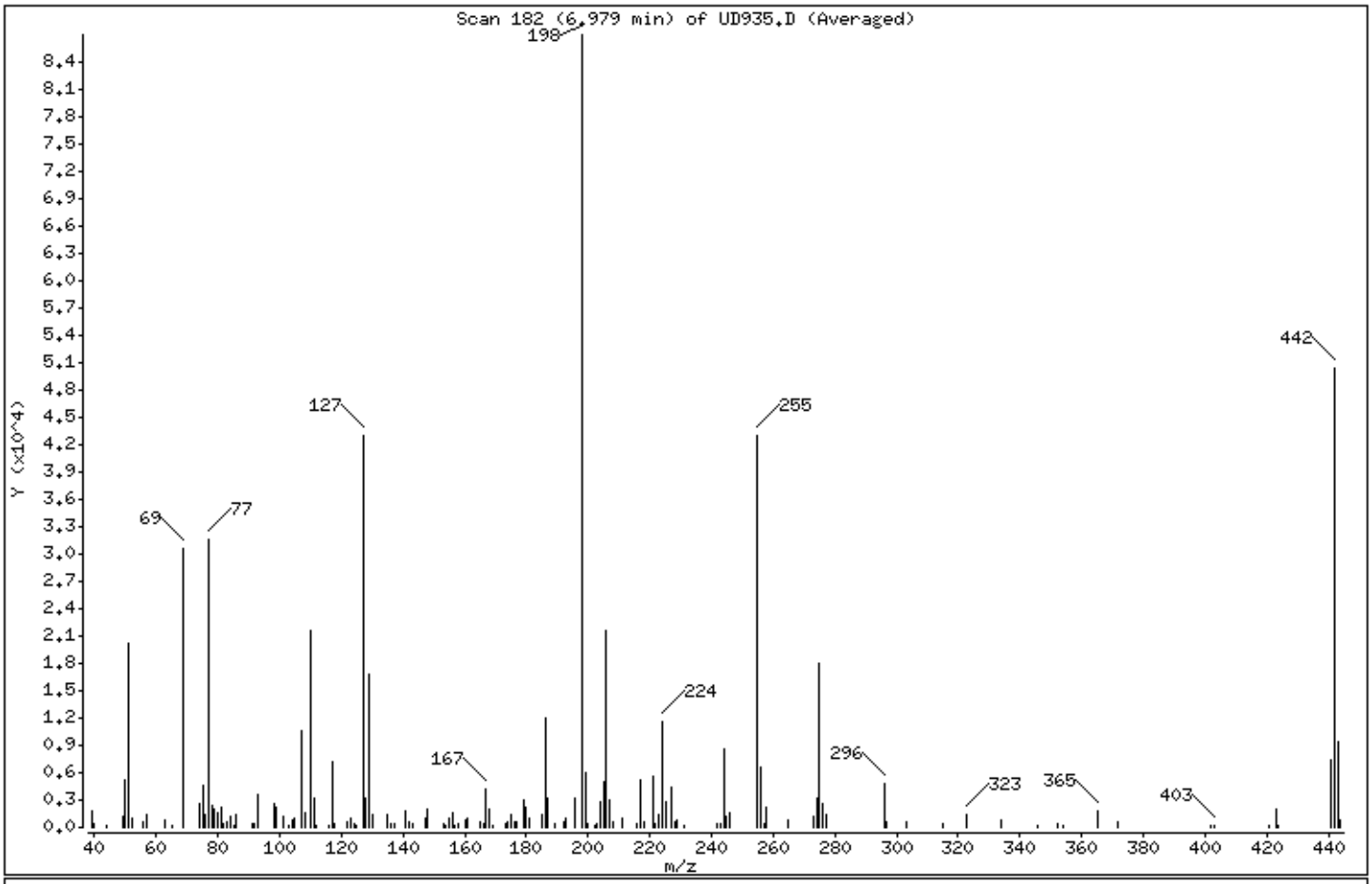
Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG344071-1

Operator: DT

Column phase: Rxi-SVOCms Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.79
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Less than 100.00% of mass 198	34.87
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	49.07
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.73
275	10.00 - 60.00% of mass 198	21.09
365	1.00 - 100.00% of mass 198	2.12
441	0.01 - 100.00% of mass 443	9.64 (78.45)
442	50.00 - 100.00% of mass 198	66.33
443	15.00 - 24.00% of mass 442	12.28 (18.52)

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\UD935.D

Date : 18-OCT-2023 09:54

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG344071-1

Operator: DT

Column phase: Rxi-SVOCms Column diameter: 0.25

Data File: UD935.D
Spectrum: Scans 182-184 (6.979 min), Subtraction Scan 179
Location of Maximum: 198.00
Number of points: 142

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1746	112.00	177	176.00	583	243.00	478
40.00	383	116.00	240	177.00	566	244.00	8633
44.00	178	117.00	7221	179.00	3010	245.00	1200
50.00	5115	118.00	456	180.00	2130	246.00	1532
51.00	19734	122.00	547	181.00	1074	255.00	42962
52.00	1084	123.00	1008	185.00	1374	256.00	6620
56.00	642	124.00	375	186.00	11947	257.00	386
57.00	1435	125.00	204	187.00	3173	258.00	2272
63.00	893	127.00	43016	189.00	489	265.00	882
65.00	254	128.00	3107	192.00	674	273.00	1161
69.00	30584	129.00	16693	193.00	962	274.00	3240
74.00	2519	130.00	1392	196.00	3259	275.00	17886
75.00	4544	135.00	1310	198.00	86922	276.00	2630
76.00	1319	136.00	497	199.00	5928	277.00	1493
77.00	31485	137.00	499	200.00	412	296.00	4715
78.00	2466	141.00	1800	202.00	292	297.00	515
79.00	1952	142.00	502	203.00	469	303.00	609
80.00	1546	143.00	376	204.00	2845	315.00	421
81.00	2120	147.00	1047	205.00	5001	323.00	1459
82.00	444	148.00	2092	206.00	21664	334.00	725
83.00	665	153.00	460	207.00	2902	346.00	184
85.00	173	154.00	276	208.00	605	352.00	361
86.00	624	155.00	1059	211.00	967	354.00	213
91.00	386	156.00	1648	216.00	419	365.00	1783
92.00	406	157.00	170	217.00	5295	372.00	591
93.00	3542	158.00	351	218.00	603	402.00	176
98.00	2506	160.00	747	221.00	5497	403.00	196
99.00	2114	161.00	974	222.00	403	421.00	167
101.00	1264	165.00	583	223.00	1299	423.00	2007
103.00	242	166.00	446	224.00	11568	424.00	228
104.00	764	167.00	4202	225.00	2812	441.00	7414
105.00	954	168.00	2075	227.00	4413	442.00	50452
107.00	10588	169.00	170	228.00	517	443.00	9454
108.00	1643	173.00	391	229.00	851	444.00	770
110.00	21533	174.00	588	231.00	181		

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\UD935.D

Date : 18-OCT-2023 09:54

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG344071-1

Operator: DT

Column phase: Rxi-SVOCms Column diameter: 0.25

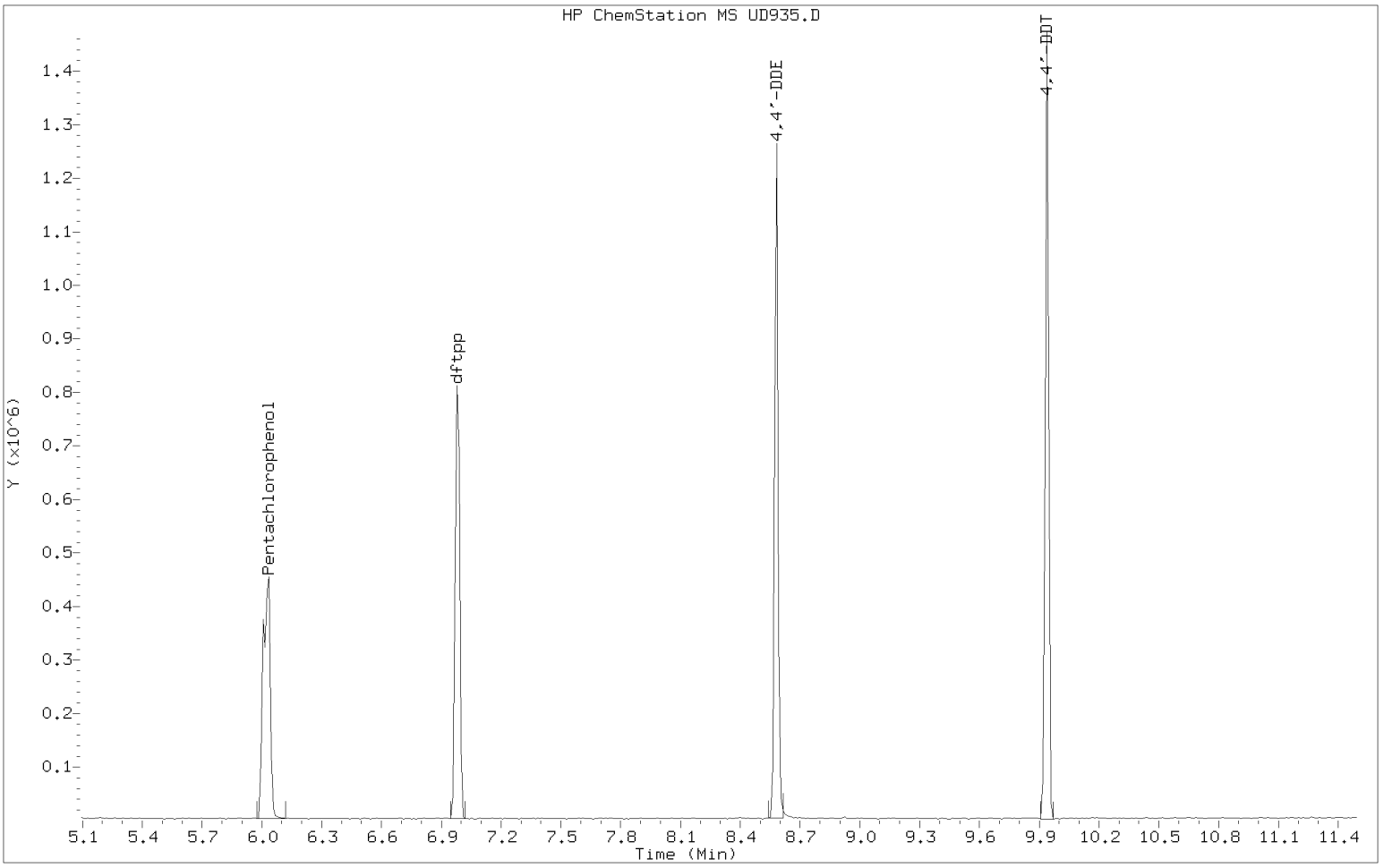
Data File: UD935.D
Spectrum: Scans 182-184 (6.979 min), Subtraction Scan 179
Location of Maximum: 198.00
Number of points: 142

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	3237	175.00	1496	242.00	419		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

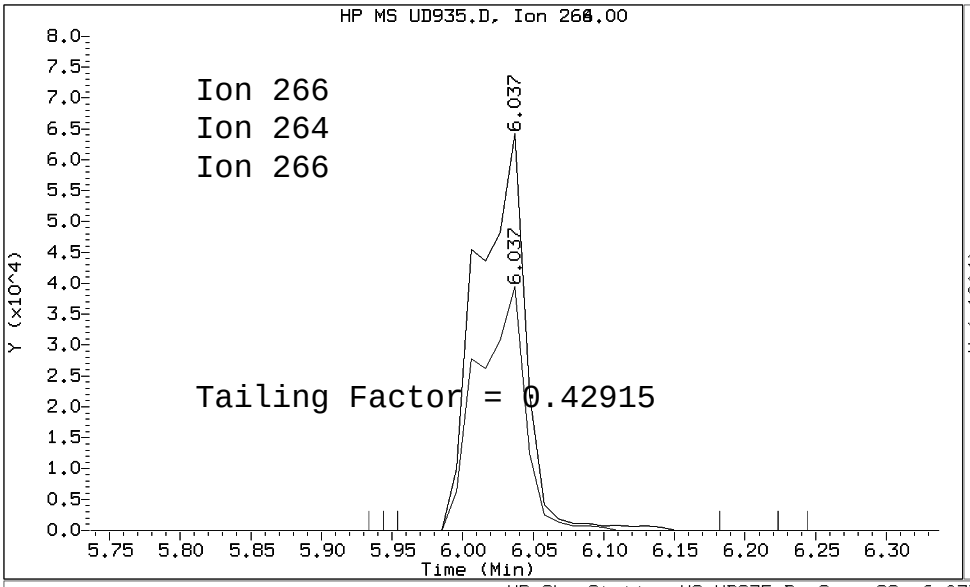
Report Date: 10/20/2023 13:35

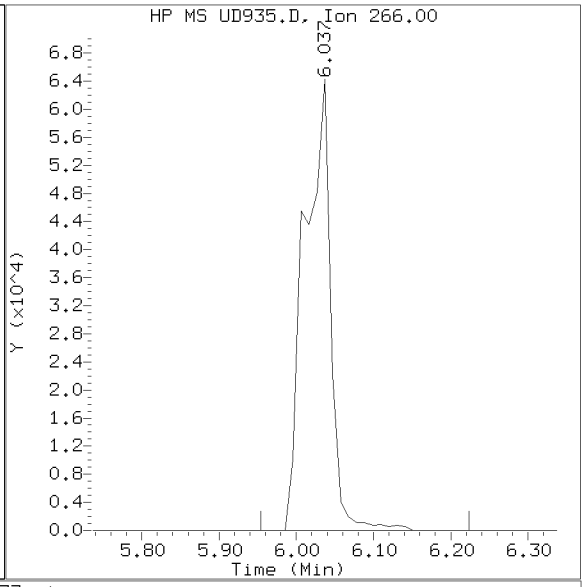
Datafile Analyzed: //target_server/gg/chem/gcms-u.i/U101823.b/UD935.D
Method Used: \\target_server\gg\chem\gcms-u.i\U101823.b\DFTPP390.m Inst: gcms-
Injection Date: 18-OCT-2023 09:54 Operator: DT
Sample Info: WG344071-1 WG344071-1
Misc Info: WG344071,WG344071,WG344071-4,SQ5205-1

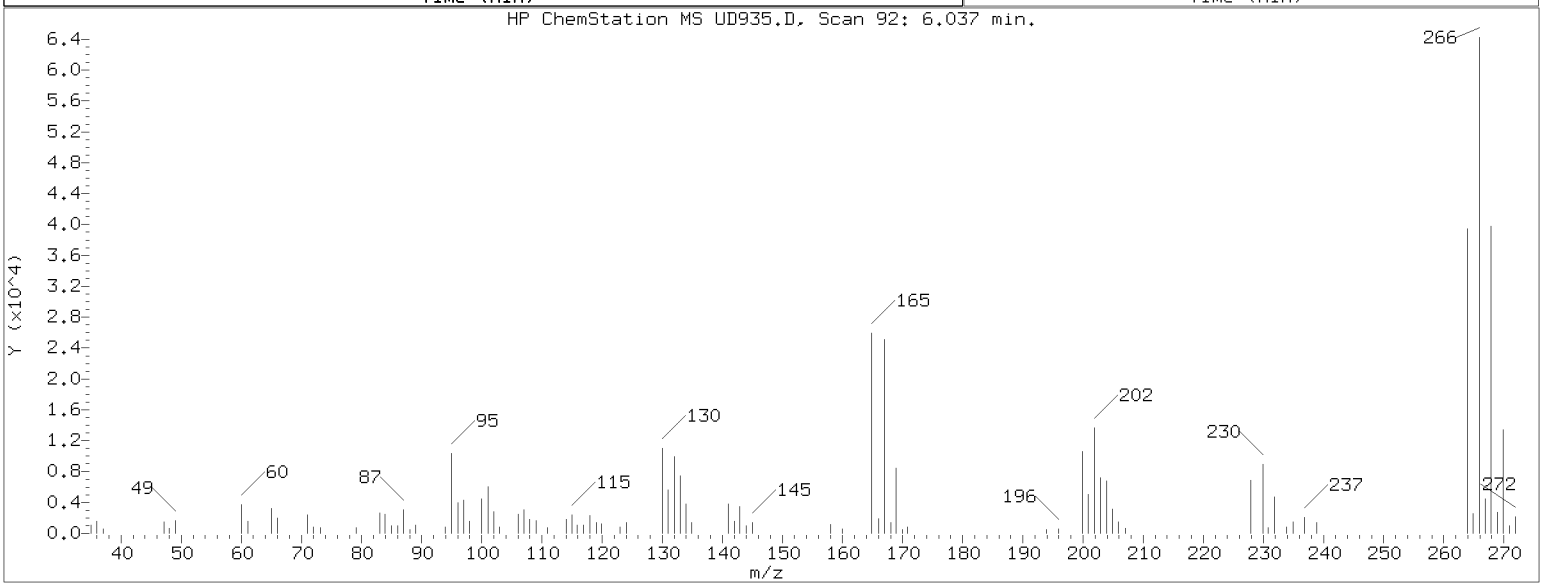


Report Date: 10/20/2023 13:35

Datafile Analyzed: //target_server/gg/chem/gcms-u.i/U101823.b/UD935.D
Method Used: \\target_server\gg\chem\gcms-u.i\U101823.b\DFTPP390.m Inst: gcms-
Injection Date: 18-OCT-2023 09:54 Operator: DT
Sample Info: WG344071-1 WG344071-1
Misc Info: WG344071,WG344071,WG344071-4,SQ5205-1







Pentachlorophenol
==========
Exp. RT = 6.438
Found RT = 6.037

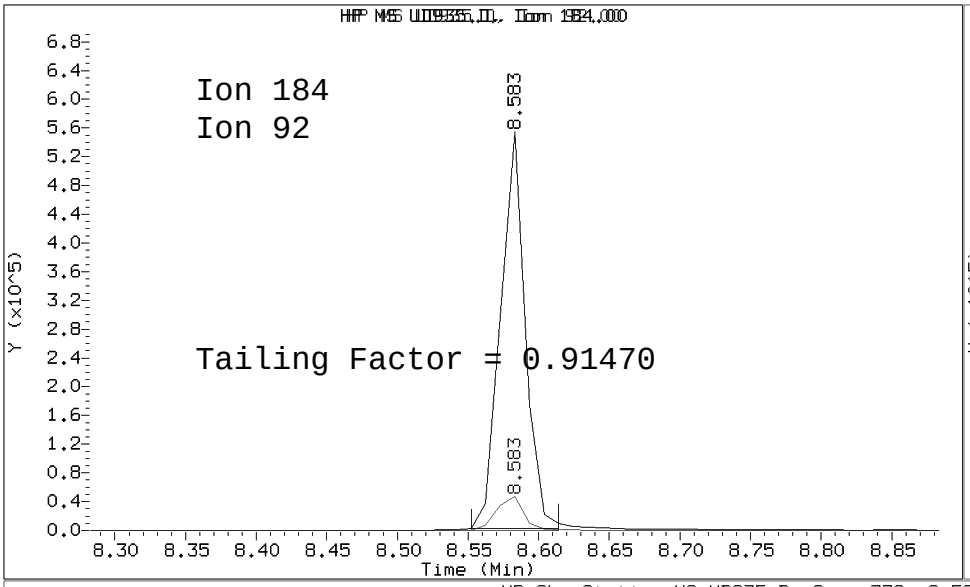
Mass	Area	Ratio
266	152320	100.00
264	92355	60.63
266	152320	100.00

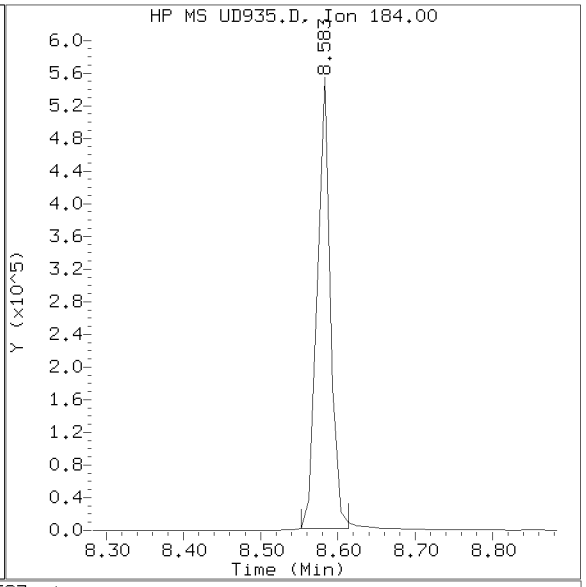
Tailing factor for Pentachlorophenol OK

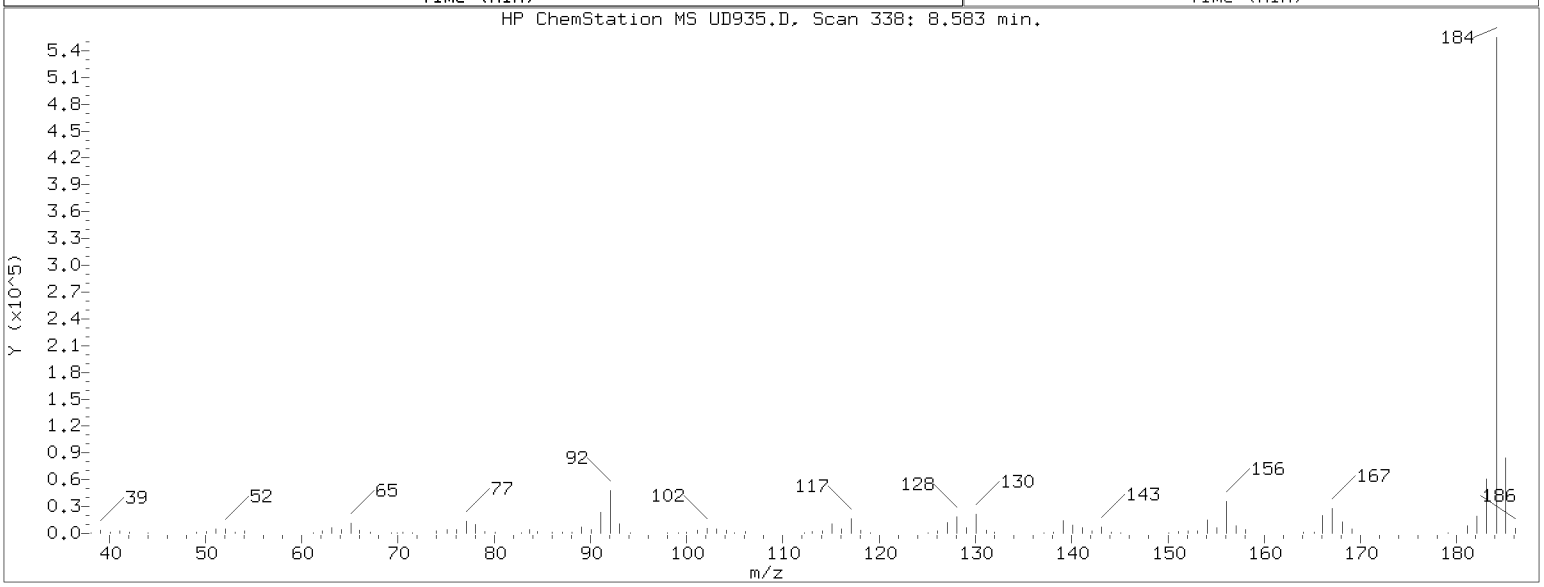
Tail Factor = 0.429 Maximum Allowed = 2

Report Date: 10/20/2023 13:35

Datafile Analyzed: //target_server/gg/chem/gcms-u.i/U101823.b/UD935.D
Method Used: \\target_server\gg\chem\gcms-u.i\U101823.b\DFTPP390.m Inst: gcms-
Injection Date: 18-OCT-2023 09:54 Operator: DT
Sample Info: WG344071-1 WG344071-1
Misc Info: WG344071,WG344071,WG344071-4,SQ5205-1





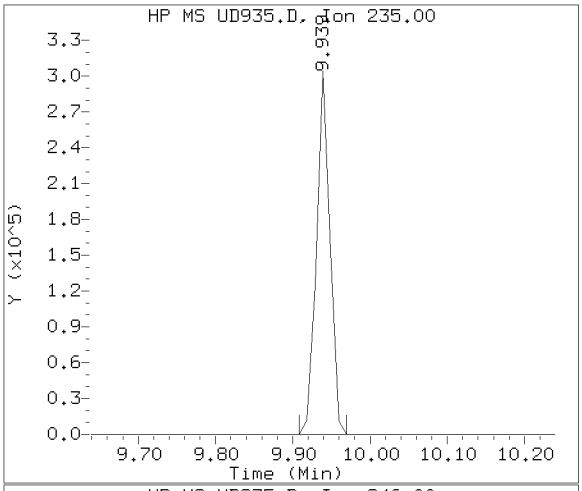


Benzidine
==========
 Exp. RT =   8.963
Found RT =   8.583

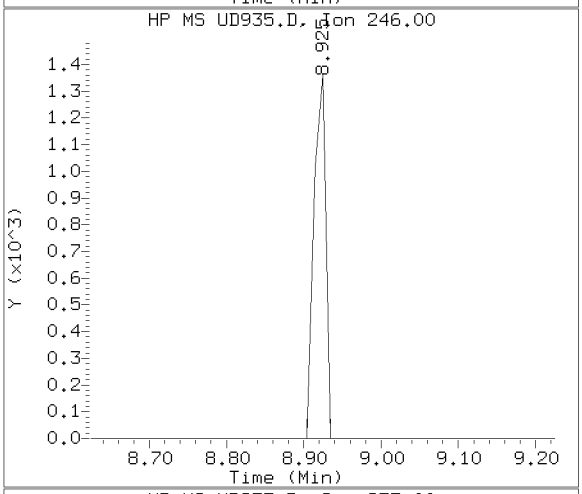
Mass	Area	Ratio
184	669882	100.00
92	63313	9.45

Tailing factor for Benzidine OK

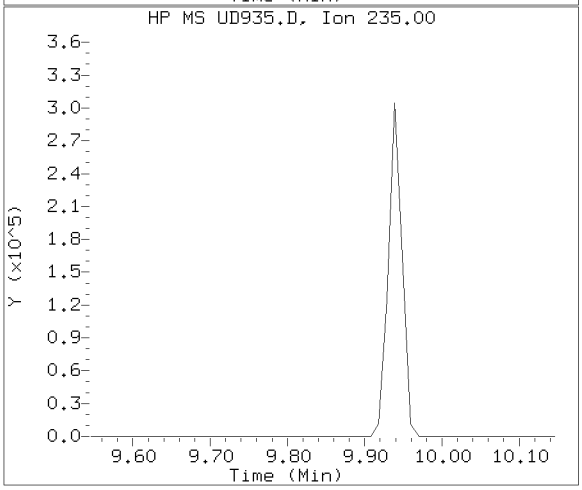
Tail Factor = 0.915 Maximum Allowed = 2



Compound: 4,4'-DDT
Quant Mass: 235
RT: 9.939
Area: 376026



Compound: 4,4'-DDE
Quant Mass: 246
RT: 8.925
Area: 1477



Compound: 4,4'-DDD
Quant Mass: 235
RT: 0.000
Area: 0

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	376026			N/A
4,4-DDE	1477	0.4	20.0	PASS
4,4-DDD	0	0.0	20.0	PASS
4,4-DDD + DDE	1477	0.4	20.0	PASS

****

TUNE SAMPLE *** PASSED *** DDT BREAKDOWN TEST

****

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\UD936.D

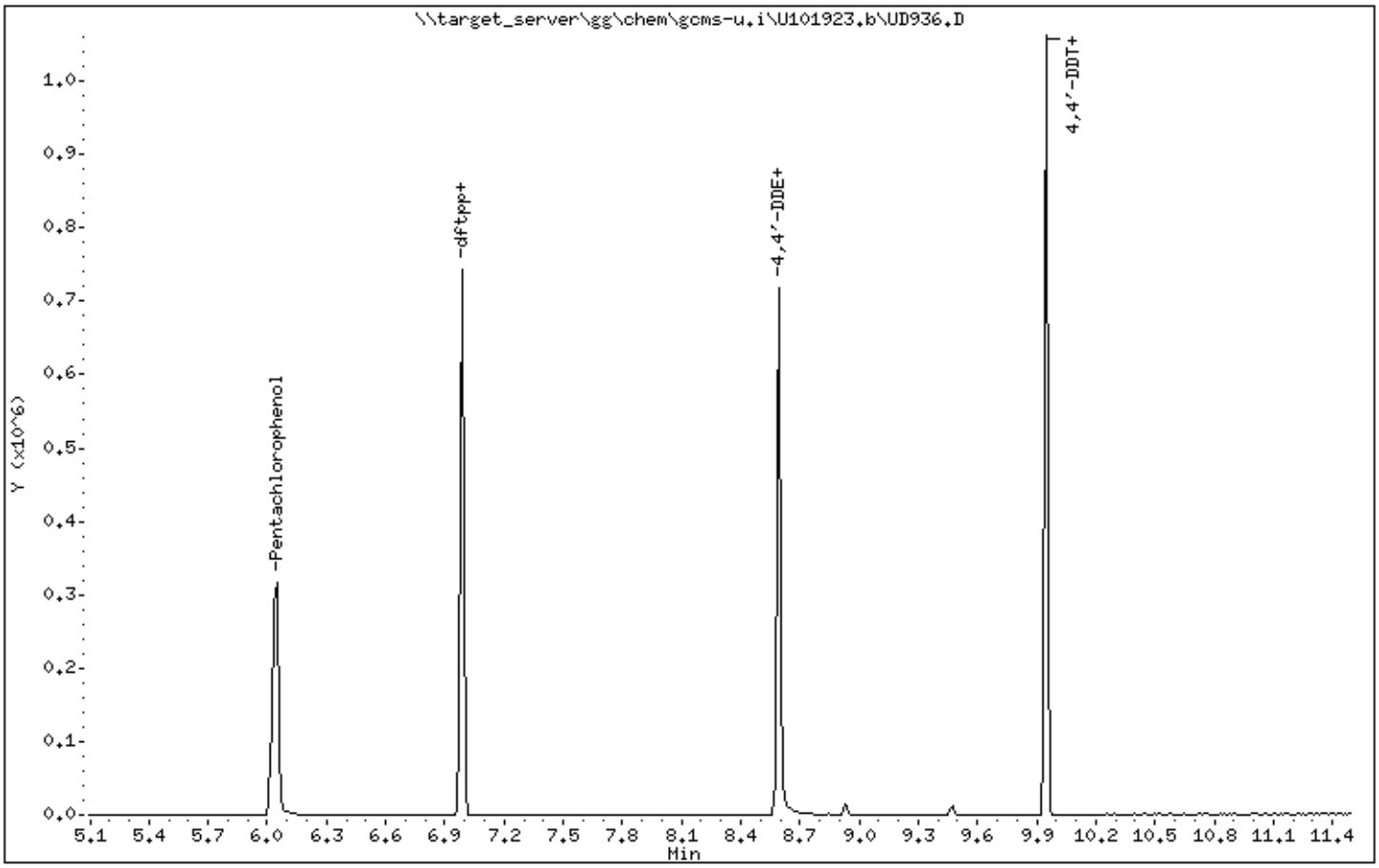
Date : 19-OCT-2023 13:31

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG344145-1

Operator: DT

Column phase: Rxi-SVOCms Column diameter: 0.25



Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\UD936.D

Date : 19-OCT-2023 13:31

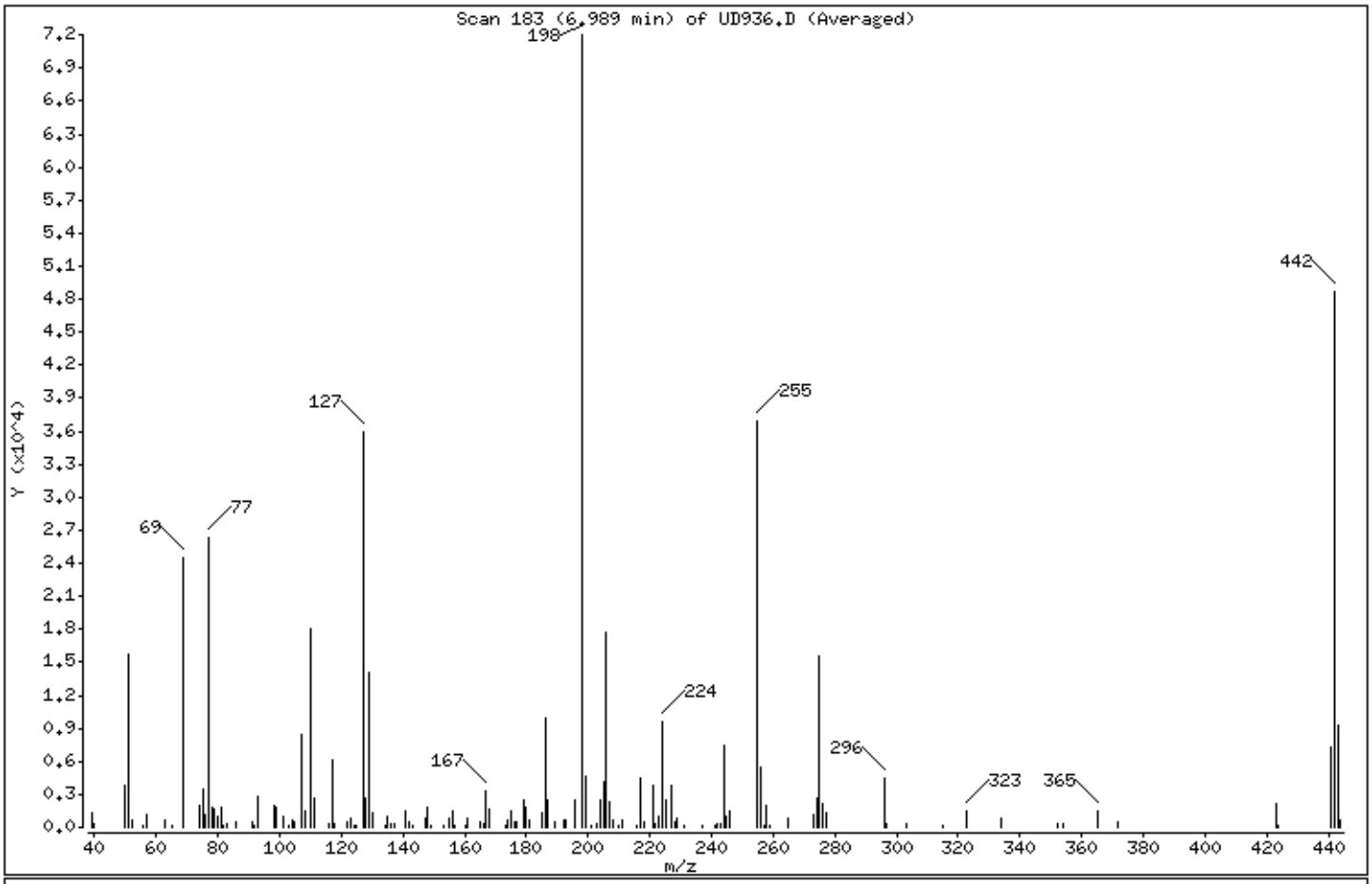
Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG344145-1

Operator: DT

Column phase: Rxi-SVOCms Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.13
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Less than 100.00% of mass 198	35.17
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	50.47
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.40
275	10.00 - 60.00% of mass 198	21.02
365	1.00 - 100.00% of mass 198	1.88
441	0.01 - 100.00% of mass 443	9.90 (77.16)
442	50.00 - 100.00% of mass 198	68.69
443	15.00 - 24.00% of mass 442	12.83 (18.68)

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\UD936.D

Date : 19-OCT-2023 13:31

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG344145-1

Operator: DT

Column phase: Rxi-SVOCms Column diameter: 0.25

Data File: UD936.D
Spectrum: Scans 183-185 (6.989 min), Subtraction Scan 179
Location of Maximum: 198.00
Number of points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1286	117.00	6113	179.00	2501	242.00	258
40.00	348	118.00	386	180.00	1762	243.00	290
50.00	3844	122.00	513	181.00	739	244.00	7527
51.00	15715	123.00	746	185.00	1243	245.00	1003
52.00	706	124.00	223	186.00	9941	246.00	1420
56.00	237	125.00	189	187.00	2522	255.00	36920
57.00	1096	127.00	35914	189.00	424	256.00	5400
63.00	668	128.00	2637	192.00	743	257.00	205
65.00	229	129.00	14146	193.00	730	258.00	1924
69.00	24527	130.00	1289	196.00	2414	259.00	214
74.00	2038	134.00	199	198.00	72037	265.00	796
75.00	3544	135.00	1052	199.00	4666	273.00	1127
76.00	1172	136.00	374	201.00	181	274.00	2612
77.00	26388	137.00	399	203.00	287	275.00	15487
78.00	1799	141.00	1557	204.00	2566	276.00	2117
79.00	1645	142.00	416	205.00	4139	277.00	1295
80.00	1051	143.00	184	206.00	17712	296.00	4431
81.00	1780	147.00	796	207.00	2266	297.00	327
82.00	248	148.00	1769	208.00	630	303.00	399
83.00	409	149.00	216	210.00	192	315.00	218
86.00	456	153.00	209	211.00	665	323.00	1546
91.00	465	155.00	861	216.00	166	334.00	878
92.00	170	156.00	1481	217.00	4438	352.00	368
93.00	2882	157.00	170	218.00	485	354.00	367
98.00	2065	160.00	245	221.00	3866	365.00	1486
99.00	1825	161.00	841	222.00	373	372.00	521
101.00	1069	165.00	447	223.00	988	423.00	2113
103.00	180	166.00	256	224.00	9562	424.00	191
104.00	606	167.00	3364	225.00	2561	441.00	7328
105.00	531	168.00	1679	227.00	3835	442.00	48706
107.00	8377	173.00	228	228.00	443	443.00	9230
108.00	1439	174.00	668	229.00	854	444.00	737
110.00	18001	175.00	1502	231.00	197		
111.00	2617	176.00	420	237.00	171		
116.00	254	177.00	495	241.00	166		

Data File: \\target_server\gg\chem\gcms-u.i\U101923.b\UD936.D

Date : 19-OCT-2023 13:31

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG344145-1

Operator: DT

Column phase: Rxi-SVOCms Column diameter: 0.25

Data File: UD936.D

Spectrum: Scans 183-185 (6.989 min), Subtraction Scan 179

Location of Maximum: 198.00

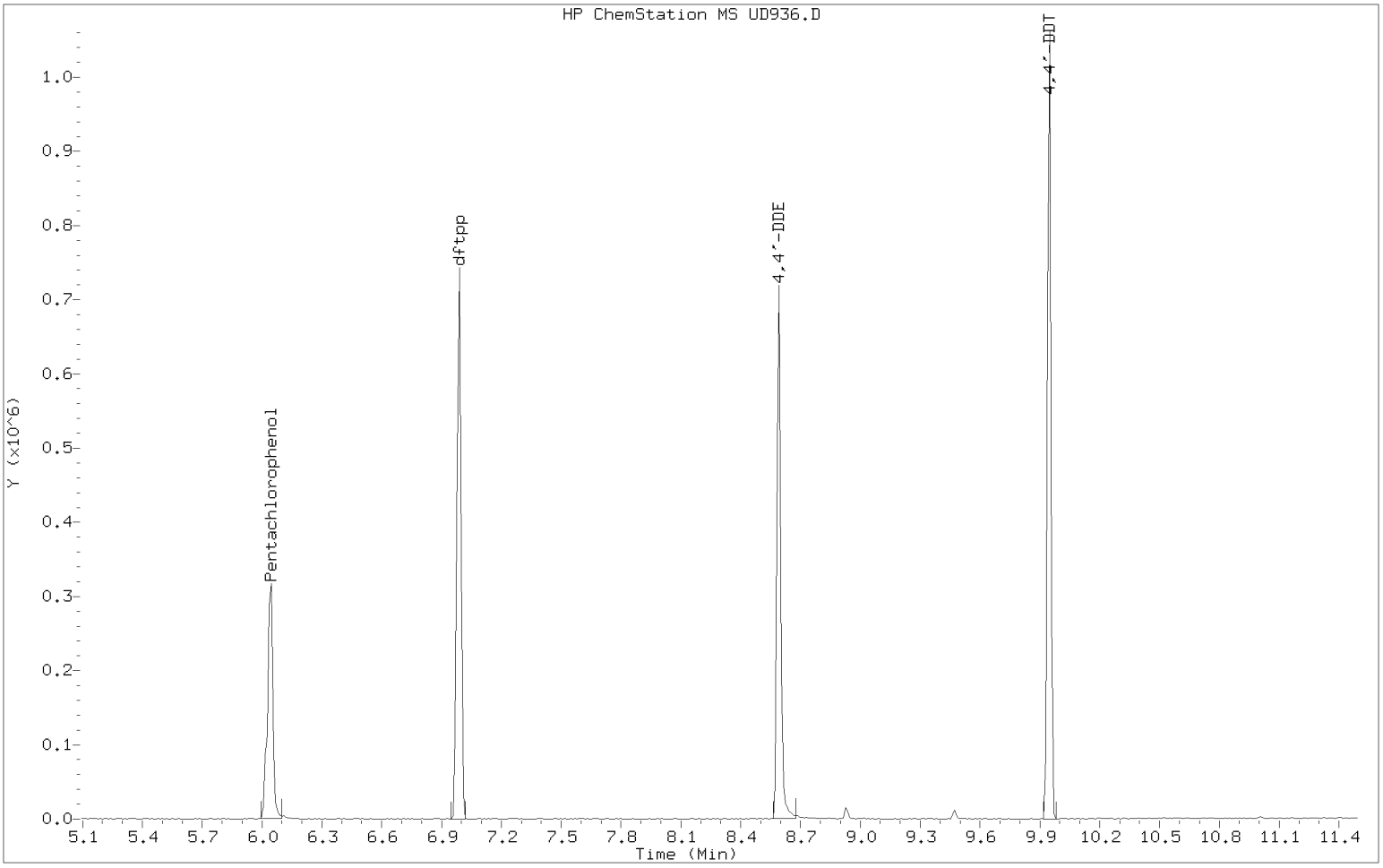
Number of points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

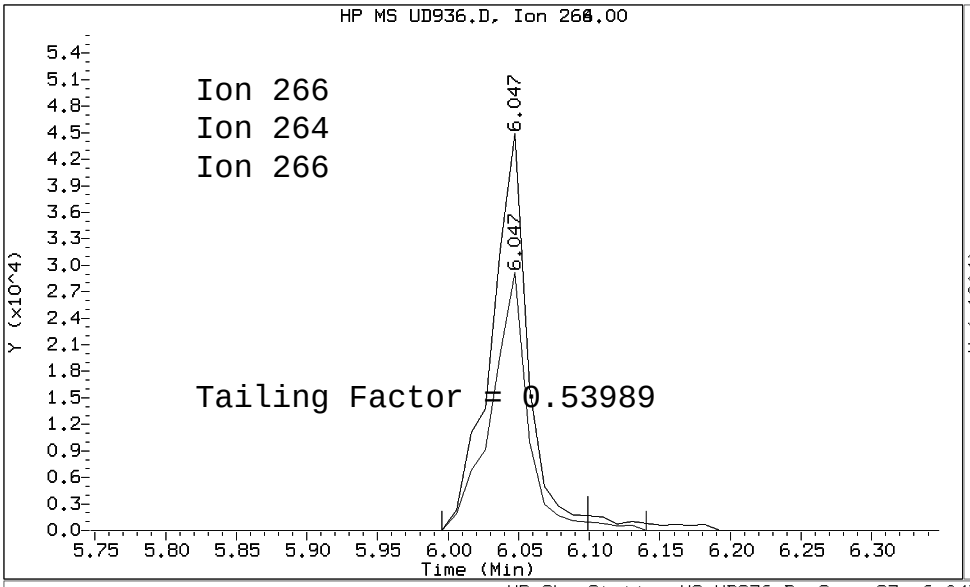
Report Date: 10/20/2023 13:37

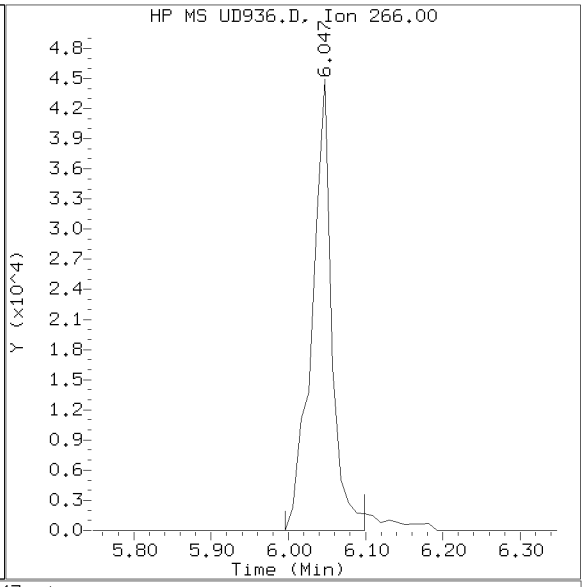
Datafile Analyzed: //target_server/gg/chem/gcms-u.i/U101923.b/UD936.D
Method Used: \\target_server\gg\chem\gcms-u.i\U101923.b\DFTPP390.m Inst: gcms-
Injection Date: 19-OCT-2023 13:31 Operator: DT
Sample Info: WG344145-1 WG344145-1
Misc Info: WG344145,WG344145,WG344071-4,SQ5205-1

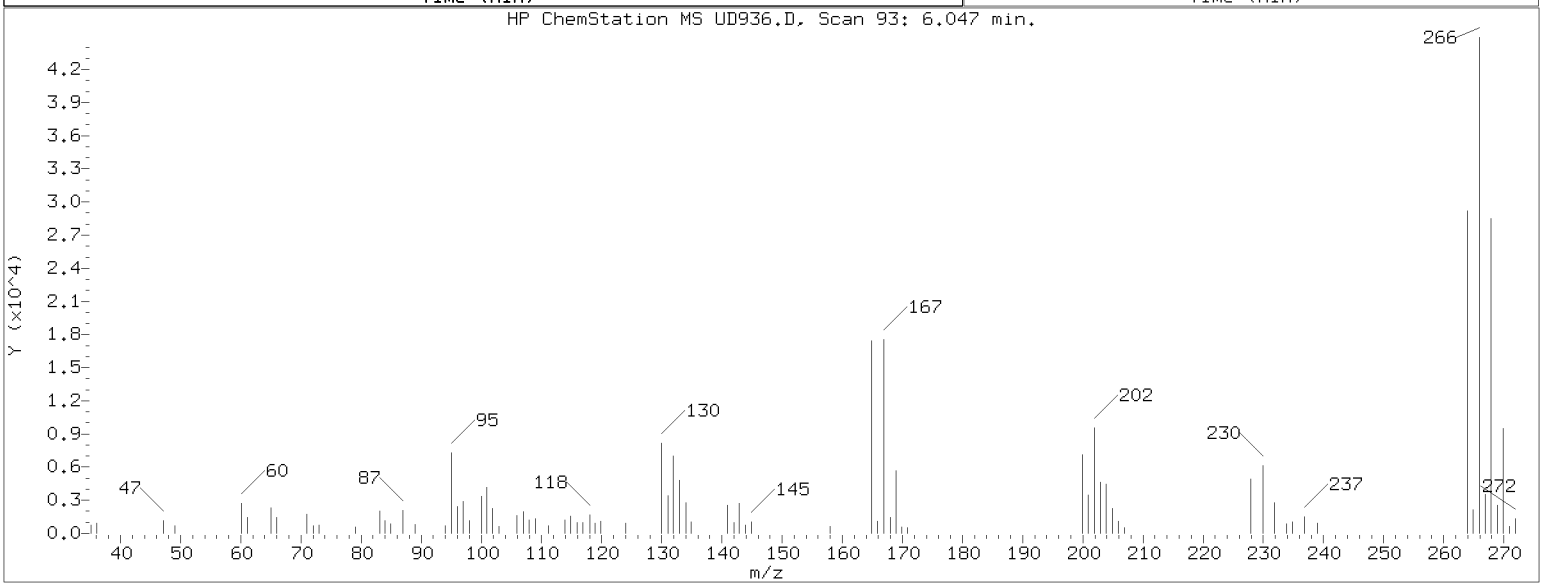


Report Date: 10/20/2023 13:37

Datafile Analyzed: //target_server/gg/chem/gcms-u.i/U101923.b/UD936.D
Method Used: \\target_server\gg\chem\gcms-u.i\U101923.b\DFTPP390.m Inst: gcms-
Injection Date: 19-OCT-2023 13:31 Operator: DT
Sample Info: WG344145-1 WG344145-1
Misc Info: WG344145,WG344145,WG344071-4,SQ5205-1







Pentachlorophenol
==========

Exp. RT =	6.438
Found RT =	6.047

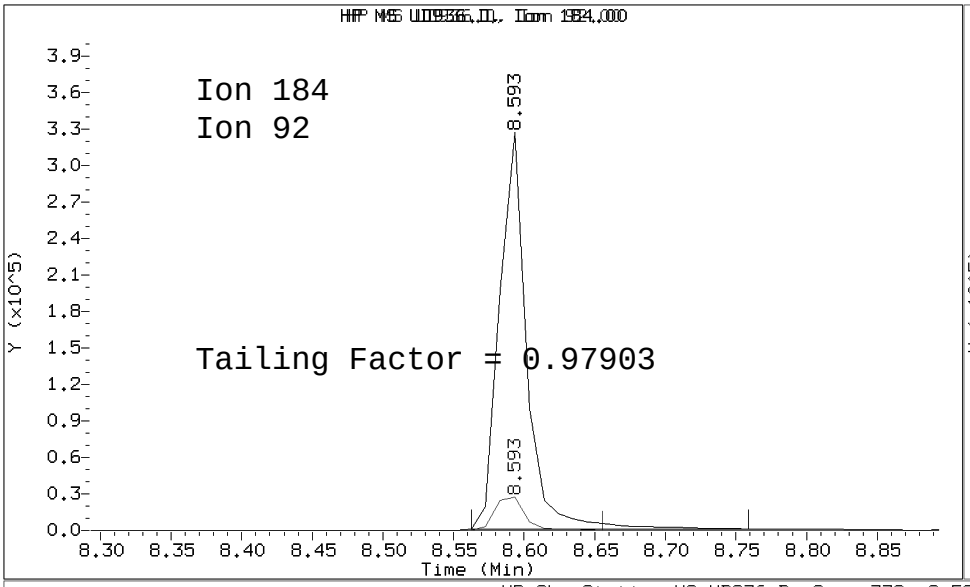
Mass	Area	Ratio
266	81412	100.00
264	53105	65.23
266	81412	100.00

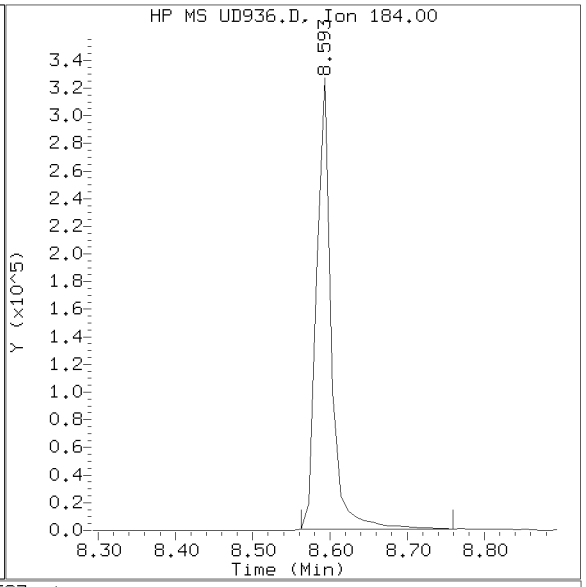
Tailing factor for Pentachlorophenol OK

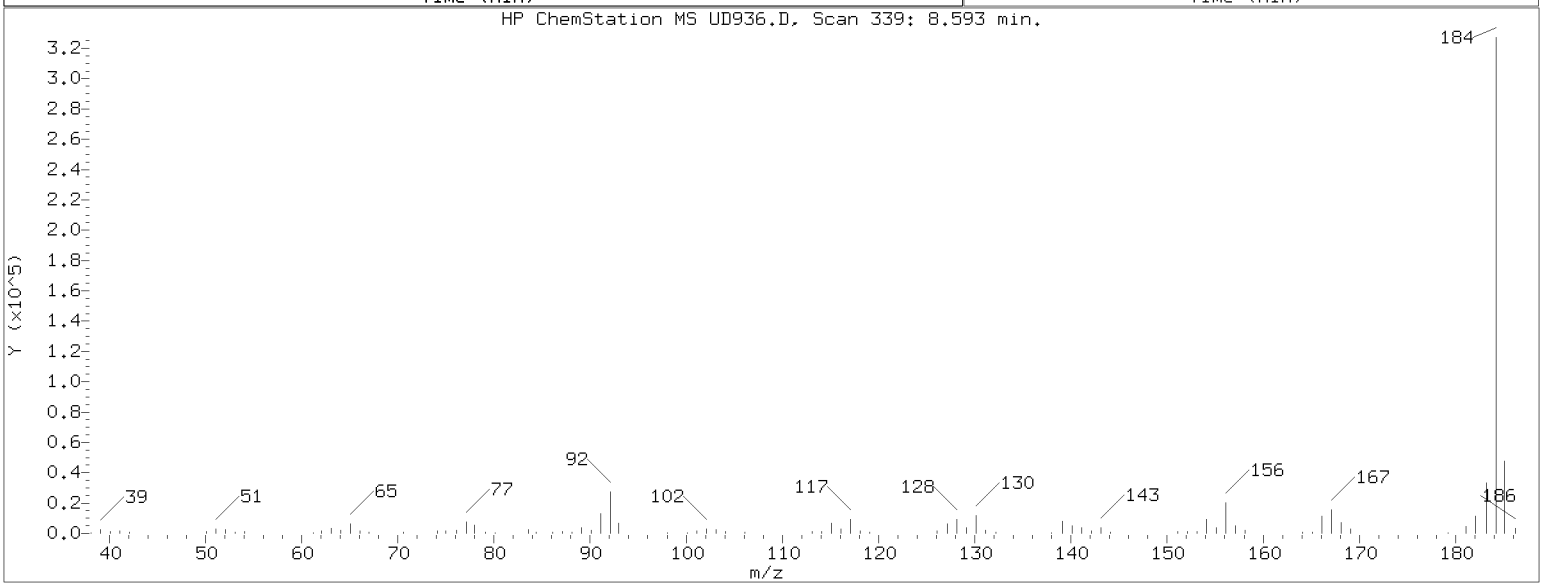
Tail Factor = 0.540 Maximum Allowed = 2

Report Date: 10/20/2023 13:37

Datafile Analyzed: //target_server/gg/chem/gcms-u.i/U101923.b/UD936.D
Method Used: \\target_server\gg\chem\gcms-u.i\U101923.b\DFTPP390.m Inst: gcms-
Injection Date: 19-OCT-2023 13:31 Operator: DT
Sample Info: WG344145-1 WG344145-1
Misc Info: WG344145,WG344145,WG344071-4,SQ5205-1





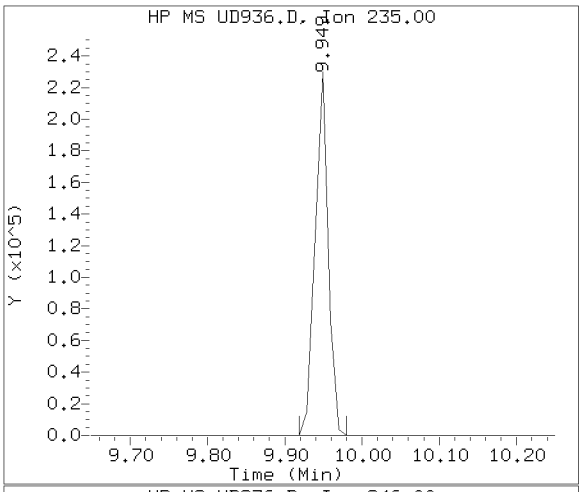


Benzidine
==========
 Exp. RT =   8.963
Found RT =   8.593

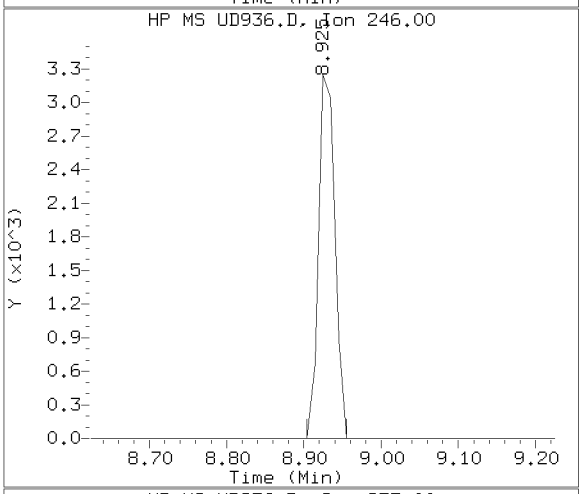
Mass	Area	Ratio
184	440631	100.00
92	41574	9.44

Tailing factor for Benzidine OK

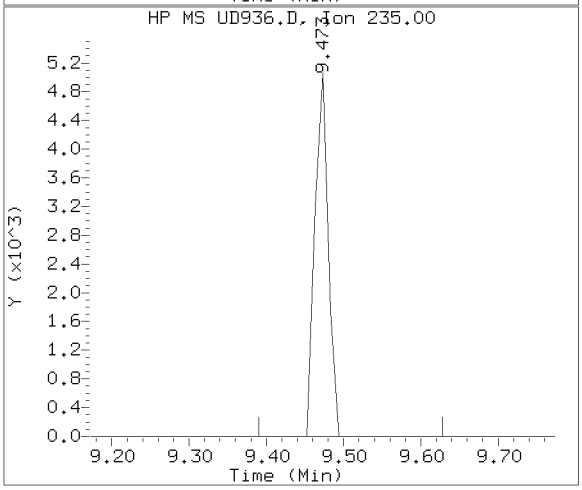
Tail Factor = 0.979 Maximum Allowed = 2



Compound: 4,4'-DDT
Quant Mass: 235
RT: 9.949
Area: 277324



Compound: 4,4'-DDE
Quant Mass: 246
RT: 8.925
Area: 4869



Compound: 4,4'-DDD
Quant Mass: 235
RT: 9.473
Area: 6205

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	277324			N/A
4,4-DDE	4869	1.7	20.0	PASS
4,4-DDD	6205	2.2	20.0	PASS
4,4-DDD + DDE	11074	3.8	20.0	PASS

****

TUNE SAMPLE *** PASSED *** DDT BREAKDOWN TEST

****

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5108
Lab ID: WG343378-1
Client ID: Method Blank
Matrix: AQ
Lab File ID: U1630.D

Sample Date: N/A
Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: SW846 3510C
Lab Prep Batch: WG343378

Report Date: 16-NOV-23
Analysis Date: 18-OCT-23
Analyst: DT
Analysis Method: SW846 8270D
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pyridine	U	7.5	ug/L	1	10	10.	3.7	7.5
1,4-Dichlorobenzene	U	7.5	ug/L	1	10	10.	3.7	7.5
2-Methylphenol	U	11	ug/L	1	15	15.	5.5	11.
3&4-Methylphenol	U	15	ug/L	1	20	20.	7.5	15.
Hexachloroethane	U	7.5	ug/L	1	10	10.	3.7	7.5
Nitrobenzene	U	7.5	ug/L	1	10	10.	3.7	7.5
Hexachlorobutadiene	U	7.5	ug/L	1	10	10.	3.7	7.5
2,4,6-Trichlorophenol	U	7.5	ug/L	1	10	10.	3.7	7.5
2,4,5-Trichlorophenol	U	20	ug/L	1	25	25.	10.	20.
2,4-Dinitrotoluene	U	7.5	ug/L	1	10	10.	3.7	7.5
Hexachlorobenzene	U	7.5	ug/L	1	10	10.	3.7	7.5
Pentachlorophenol	U	20	ug/L	1	25	25.	10.	20.
2-Fluorophenol		45.1	%					
Phenol-D6		29.6	%					
Nitrobenzene-D5		92.2	%					
2-Fluorobiphenyl		90.3	%					
2,4,6-Tribromophenol		90.9	%					
Terphenyl-D14		73.3	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1630.D
Report Date: 16-Nov-2023 15:11

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1630.D
Lab Smp Id: WG343378-1 Client Smp ID: WG343378-Blank
Inj Date : 18-OCT-2023 16:52
Operator : DT Inst ID: gcms-u.i
Smp Info : WG343378-1
Misc Info : WG344071,WG343378,WG344071-4,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 16-Nov-2023 15:09 gcms-u.i Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47 Cal File: U1622.D
Als bottle: 15 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD5.sub
Target Version: 4.12
Processing Host: TECHN0VA-01

Concentration Formula: Amt * DF * Uf*(Vt/Vo)*1000 * CpndVariable

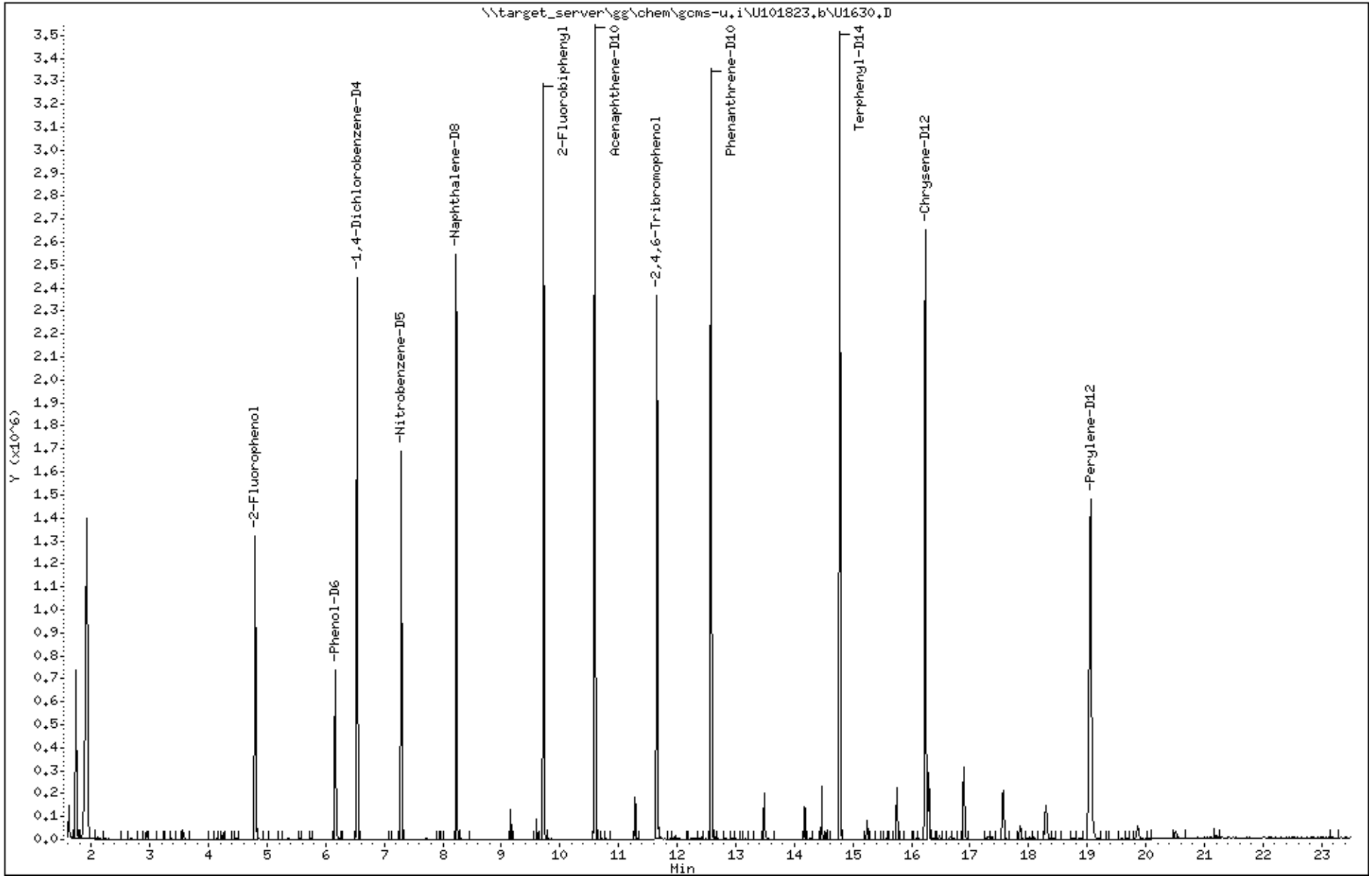
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	4.794	4.821	(0.734)	663324	45.0849	45.1	
$ 12 Phenol-D6	99	6.160	6.187	(0.943)	438581	29.6160	29.6	
* 19 1,4-Dichlorobenzene-D4	152	6.532	6.550	(1.000)	536327	40.0000	(Q)	
$ 33 Nitrobenzene-D5	82	7.288	7.326	(0.886)	591210	46.0802	46.1	
* 44 Naphthalene-D8	136	8.230	8.257	(1.000)	1692461	40.0000		
$ 63 2-Fluorobiphenyl	172	9.720	9.748	(0.918)	1292635	45.1481	45.1	
* 78 Acenaphthene-D10	164	10.590	10.607	(1.000)	1009667	40.0000		
$ 100 2,4,6-Tribromophenol	330	11.666	11.694	(1.102)	357300	90.9114	90.9	
* 114 Phenanthrene-D10	188	12.577	12.615	(1.000)	1644237	40.0000		
$ 130 Terphenyl-D14	244	14.781	14.799	(0.910)	1449954	36.6499	36.6	
* 141 Chrysene-D12	240	16.241	16.268	(1.000)	1393063	40.0000		
* 151 Perylene-D12	264	19.056	19.053	(1.000)	1197528	40.0000		

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1630.D
Date : 18-OCT-2023 16:52
Client ID: WG343378-Blank
Instrument: gcms-u.i
Sample Info: WG343378-1
Volume Injected (uL): 1.0
Operator: DT
Column phase: Rxi-SVOCms
Column diameter: 0.25



Katahdin Analytical Services SQ5108 Page 227 of 640

Katahdin
ANALYTICAL SERVICES

LCS/LCSD Recovery Report

LCS ID: WG343378-2
LCSD ID: WG343378-3
SDG: SQ5108
LCS File ID: U1631.D

Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: SW846 3510C
Lab Prep Batch: WG343378
LCSD File ID: U1632.D

Analysis Date: 18-OCT-23
Analyst: DT
Analysis Method: SW846 8270D
Matrix: AQ
Report Date: 16-NOV-23

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Pyridine	50.0	13.9	27.8	12.3	24.6	ug/L	12	30	10-96
1,4-Dichlorobenzene	50.0	28.5	57.0	31.0	62.0	ug/L	8	30	29-112
2-Methylphenol	100.	62.2	62.2	61.0	61.0	ug/L	2	30	30-117
3&4-Methylphenol	100.	54.3	54.3	51.7	51.7	ug/L	5	30	29-110
Hexachloroethane	50.0	21.7	43.4	25.0	50.0	ug/L	14	30	21-115
Nitrobenzene	50.0	44.2	88.4	41.8	83.6	ug/L	6	30	45-121
Hexachlorobutadiene	50.0	25.4	50.8	27.8	55.6	ug/L	9	30	22-124
2,4,6-Trichlorophenol	100.	83.0	83.0	81.9	81.9	ug/L	1	30	50-125
2,4,5-Trichlorophenol	100.	82.4	82.4	86.4	86.4	ug/L	5	30	53-123
2,4-Dinitrotoluene	50.0	43.7	87.4	45.0	90.0	ug/L	3	30	57-128
Hexachlorobenzene	50.0	41.9	83.8	46.7	93.4	ug/L	11	30	53-125
Pentachlorophenol	100.	80.4	80.4	90.1	90.1	ug/L	11	30	35-138
2-Fluorophenol			42.1		42.1				19-119
Phenol-D6			28.5		29.0				10-90
Nitrobenzene-D5			88.9		93.8				44-120
2-Fluorobiphenyl			87.0		96.3				44-119
2,4,6-Tribromophenol			95.3		99.5				43-140
Terphenyl-D14			98.4		98.8				50-134

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1631.D
Report Date: 16-Nov-2023 15:11

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1631.D
Lab Smp Id: WG343378-2 Client Smp ID: WG343378-LCS
Inj Date : 18-OCT-2023 17:24
Operator : DT Inst ID: gcms-u.i
Smp Info : WG343378-2
Misc Info : WG344071,WG343378,WG344071-4,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 16-Nov-2023 15:09 gcms-u.i Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47 Cal File: U1622.D
Als bottle: 16 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD5.sub
Target Version: 4.12
Processing Host: TECHN0VA-01

Concentration Formula: Amt * DF * Uf*(Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

EP
3:25 pm, Nov 16, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
	1 1,4-Dioxane	58	2.120	2.182	(0.257)	37706	13.8542	13.8	
	2 N-Nitrosodimethylamine	42	2.513	2.617	(0.385)	74436	17.2460	17.2	
	3 Pyridine	79	2.555	2.627	(0.391)	191457	13.9297	13.9(aM)	M6
	5 2-Picoline	93	3.797	3.828	(0.582)	432393	25.8112	25.8	
	6 N-Nitrosomethylethylamine	88	4.014	4.066	(0.615)	207312	32.6952	32.7	
	7 Methyl Methanesulfonate	80	4.521	4.573	(0.693)	364292	46.0575	46.0	
$	8 2-Fluorophenol	112	4.791	4.821	(0.734)	613143	42.0641	42.1	
	9 N-Nitrosodiethylamine	102	5.070	5.121	(0.777)	317378	44.0022	44.0	
	10 Ethyl Methanesulfonate	79	5.567	5.597	(0.853)	771719	76.3492	76.3	
	11 Benzaldehyde	77	5.939	5.949	(0.910)	286628	179.173	179(AR)	
$	12 Phenol-D6	99	6.157	6.187	(0.943)	417749	28.4732	28.5	
	13 Aniline	93	6.105	6.136	(0.935)	615124	32.3462	32.3	
	14 Phenol	94	6.177	6.208	(0.946)	414633	25.5016	25.5	
	16 Bis(2-Chloroethyl)ether	93	6.240	6.260	(0.956)	506898	41.2316	41.2	
	17 2-Chlorophenol	128	6.271	6.291	(0.960)	1114629	70.4560	70.4	
	18 1,3-Dichlorobenzene	146	6.447	6.467	(0.987)	512178	25.9739	26.0	
*	19 1,4-Dichlorobenzene-D4	152	6.529	6.550	(1.000)	531356	40.0000	(Q)	
	20 1,4-Dichlorobenzene	146	6.560	6.570	(1.005)	521665	28.5382	28.5	
	21 Benzyl alcohol	108	6.778	6.819	(1.038)	258203	26.1015	26.1	
	22 1,2-Dichlorobenzene	146	6.747	6.767	(1.033)	516743	26.7040	26.7	
	23 Bis(2-Chloroisopropyl)ether	45	6.954	6.974	(1.065)	340110	30.3156	30.3(Q)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1631.D
Report Date: 16-Nov-2023 15:11

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	24	2,2'-Oxybis(1-chloropropane)	45	6.954	6.974	(1.065)	340110	30.3274	30.3(Q)	
	25	2-Methylphenol	108	6.974	7.046	(1.068)	861112	62.1799	62.2	
	26	Acetophenone	105	7.109	7.140	(0.863)	1493434	78.7303	78.7	
	27	N-Nitrosopyrrolidine	100	7.109	7.191	(1.089)	201560	24.6535	24.6(Q)	
	28	N-Nitrosomorpholine	56	7.161	7.222	(1.097)	160756	33.8916	33.9	
	29	N-Nitroso-di-n-propylamine	70	7.150	7.202	(1.095)	296735	37.0130	37.0(Q)	
	30	3&4-Methylphenol	108	7.192	7.243	(1.101)	722985	54.2962	54.3	
	31	o-Toluidine	106	7.150	7.181	(1.095)	715537	36.9619	37.0	
	32	Hexachloroethane	117	7.192	7.212	(1.101)	168793	21.7499	21.7	
$	33	Nitrobenzene-D5	82	7.295	7.326	(0.886)	548852	44.4698	44.5	
	34	Nitrobenzene	77	7.326	7.357	(0.889)	523788	44.2115	44.2	
	35	N-Nitrosopiperidine	114	7.533	7.574	(0.915)	318972	41.4960	41.5	
	36	Isophorone	82	7.678	7.698	(0.932)	907954	40.0293	40.0	
	37	2-Nitrophenol	139	7.751	7.771	(0.941)	719889	77.3957	77.4	
	38	2,4-Dimethylphenol	107	7.885	7.916	(0.957)	966264	91.2637	91.3	
	39	O,O,O-Triethylphosphorothioat	198	7.968	7.999	(0.967)	298062	39.7524	39.8	
	40	Bis(2-Chloroethoxy)methane	93	7.989	8.019	(0.970)	780727	46.4271	46.4	
	42	2,4-Dichlorophenol	162	8.392	8.423	(1.019)	974039	89.6281	89.6	
	43	1,2,4-Trichlorobenzene	180	8.175	8.195	(0.992)	427504	29.3605	29.4	
*	44	Naphthalene-D8	136	8.237	8.257	(1.000)	1628100	40.0000		
	45	Naphthalene	128	8.268	8.288	(1.004)	1411450	36.3731	36.4	
	46	alpha-Terpineol	59	8.341	8.371	(1.013)	328928	45.3056	45.3	
	47	4-Chloroaniline	127	8.382	8.413	(1.018)	581562	33.3414	33.3	
	48	2,6-Dichlorophenol	162	8.392	8.423	(1.019)	974039	89.6281	89.6	
	49	Hexachloropropene	213	8.392	8.402	(1.019)	241102	24.0862	24.1	
	50	Hexachlorobutadiene	225	8.465	8.475	(1.028)	221911	25.4390	25.4	
	52	N-Nitroso-Di-N-Butylamine	84	8.879	8.909	(1.078)	365098	43.0285	43.0(H)	
	54	Caprolactam	113	8.931	9.023	(1.084)	26505	6.48346	6.48(aRH)	
	55	4-Chloro-3-Methylphenol	107	9.096	9.147	(1.104)	841603	91.5720	91.6(Q)	
	56	Isosafrole	162	9.127	9.147	(1.108)	465122	38.6478	38.6	
	57	2-Methylnaphthalene	142	9.200	9.220	(1.117)	976265	36.3593	36.4	
	58	1-Methylnaphthalene	142	9.334	9.354	(1.133)	944922	36.0462	36.0	
	59	1,2,4,5-Tetrachlorobenzene	216	9.438	9.448	(0.891)	822843	68.9675	69.0	
	60	Hexachlorocyclopentadiene	237	9.427	9.437	(0.890)	144973	19.5539	19.6	
	61	2,4,6-Trichlorophenol	196	9.614	9.644	(0.907)	775764	83.0340	83.0	
	62	2,4,5-Trichlorophenol	196	9.676	9.717	(0.913)	827576	82.3927	82.4	
$	63	2-Fluorobiphenyl	172	9.728	9.748	(0.918)	1218253	43.5039	43.5	
	64	Safrole	104	9.821	9.851	(0.927)	182611	39.2725	39.3(Q)	
	65	1,1'-Biphenyl	154	9.852	9.882	(0.930)	1039582	39.2082	39.2	
	66	2-Chloronaphthalene	127	9.852	9.882	(0.930)	384640	31.2810	31.3(QH)	
	67	1-Chloronaphthalene	127	9.872	9.903	(0.932)	384267	41.8394	41.8(Q)	
	69	2-Nitroaniline	65	10.028	10.048	(0.946)	263759	39.8353	39.8	
	70	1,4-Naphthoquinone	158	10.110	10.120	(0.954)	476590	72.3033	72.3	
	72	Dimethyl Phthalate	163	10.317	10.358	(0.974)	1229127	41.8258	41.8	
	73	1,3-Dinitrobenzene	168	10.328	10.379	(0.975)	232931	43.9401	43.9	
	74	2,6-Dinitrotoluene	165	10.369	10.410	(0.979)	342112	47.7944	47.8(Q)	
	75	Acenaphthylene	152	10.400	10.421	(0.981)	1478118	39.2129	39.2	
	77	3-Nitroaniline	138	10.587	10.648	(0.999)	334250	40.3376	40.3	
*	78	Acenaphthene-D10	164	10.597	10.607	(1.000)	979492	40.0000		
	79	Acenaphthene	153	10.638	10.659	(1.004)	931990	39.0694	39.1	
	80	2,4-Dinitrophenol	184	10.731	10.793	(1.013)	232584	45.0999	45.1	
	81	Pentachlorobenzene	250	10.825	10.845	(1.021)	461910	41.2356	41.2	
	82	4-Nitrophenol	109	10.938	10.979	(1.032)	103689	24.1963	24.2(aQ)	
	83	Dibenzofuran	168	10.876	10.897	(1.026)	1460641	40.6081	40.6	

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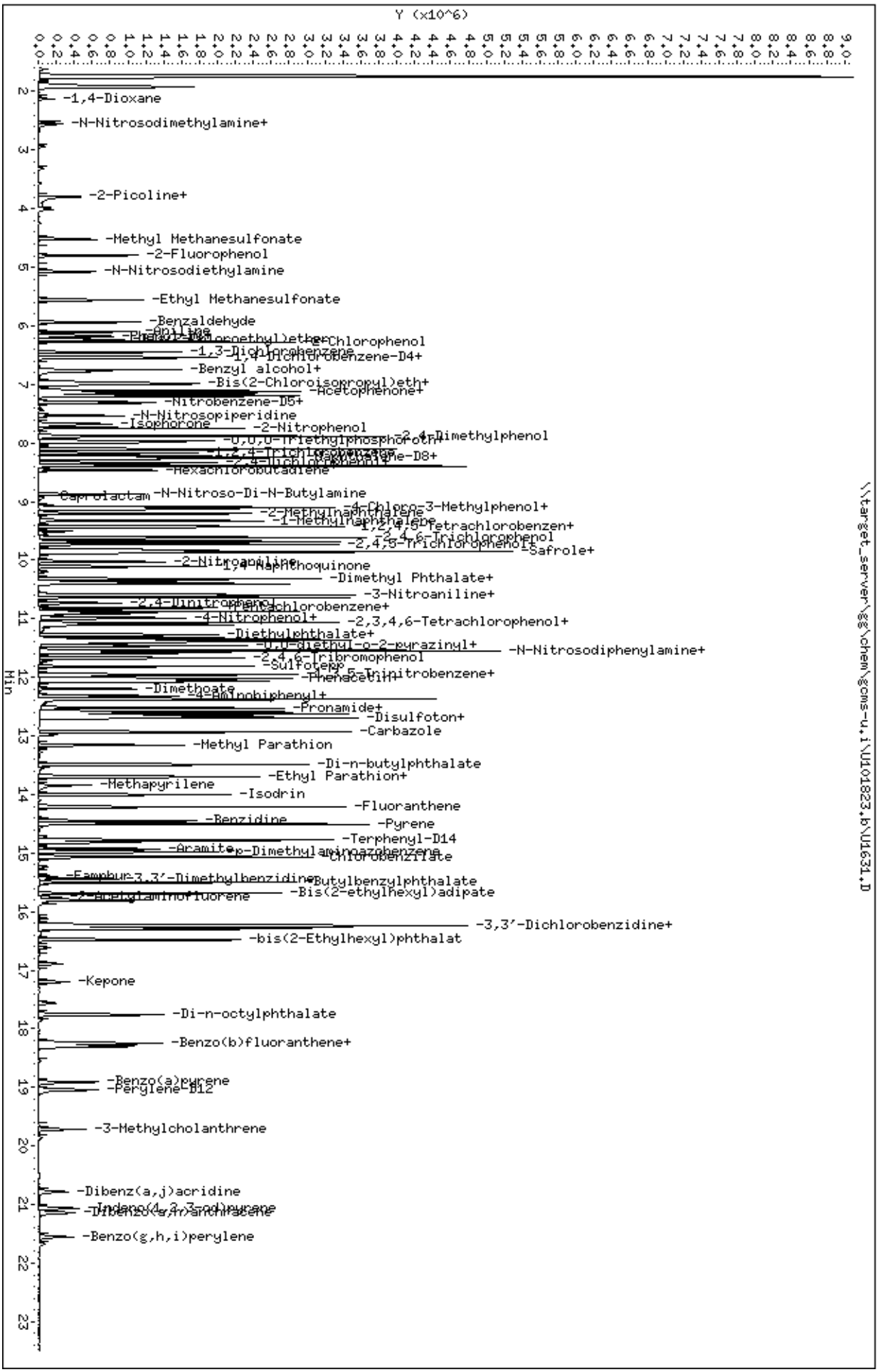
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
84	2,4-Dinitrotoluene	165	10.907	10.969	(1.029)	449215	43.7416	43.7	
85	1-Naphthylamine	143	10.990	11.021	(1.037)	760608	28.2821	28.3	
87	2,3,4,6-Tetrachlorophenol	232	11.073	11.104	(1.045)	613962	81.0337	81.0	
88	2-Naphthylamine	143	11.104	11.145	(1.048)	821809	30.6279	30.6	
89	Diethylphthalate	149	11.280	11.311	(1.064)	1356983	45.5786	45.6	
90	O,O-diethyl-o-2-pyrazinylphos	107	11.384	11.424	(1.074)	252171	49.1625	49.2	
91	Thionazin	107	11.384	11.424	(1.074)	252171	49.1625	49.2	
92	Fluorene	166	11.332	11.362	(1.069)	1180335	42.0979	42.1	
93	4-Chlorophenyl-phenylether	204	11.373	11.393	(1.073)	600642	43.1849	43.2	
94	5-Nitro-O-Toluidine	152	11.404	11.456	(1.076)	467682	46.9293	46.9(Q)	
95	4-Nitroaniline	138	11.435	11.507	(1.079)	374629	43.8410	43.8	
96	4,6-Dinitro-2-Methylphenol	198	11.466	11.518	(0.910)	507177	82.5315	82.5	
97	N-Nitrosodiphenylamine	169	11.549	11.580	(0.917)	1803554	84.2119	84.2	
98	1,2-Diphenylhydrazine	77	11.580	11.600	(0.919)	975312	41.9417	41.9	
99	Azobenzene	77	11.580	11.600	(0.919)	975312	41.9417	41.9	
$ 100	2,4,6-Tribromophenol	330	11.673	11.694	(1.102)	363285	95.2818	95.3	
101	Sulfotepp	97	11.818	11.839	(0.938)	214292	44.6658	44.7	
102	1,3,5-Trinitrobenzene	213	11.984	12.066	(0.952)	163940	49.7704	49.8(Q)	
103	Diallate	86	11.953	11.973	(0.949)	368889	51.6382	51.6	
104	Phorate	75	11.953	11.983	(0.949)	765615	46.2657	46.3	
105	Phenacetin	108	12.036	12.118	(0.956)	603561	44.1820	44.2	
106	4-Bromophenyl-phenylether	248	12.025	12.046	(0.955)	365126	42.1614	42.2	
107	Hexachlorobenzene	284	12.067	12.097	(0.958)	366883	41.9500	41.9	
108	Dimethoate	87	12.201	12.253	(0.969)	362497	49.2706	49.3	
109	Atrazine	200	12.315	12.356	(0.978)	308930	52.8431	52.8(H)	
110	4-Aminobiphenyl	169	12.388	12.418	(0.984)	1000146	39.4157	39.4	
111	Pentachlorophenol	266	12.367	12.397	(0.982)	490650	80.3648	80.4	
112	Pentachloronitrobenzene	237	12.367	12.387	(0.982)	172920	43.7626	43.8	
113	Pronamide	173	12.522	12.563	(0.994)	626302	41.5196	41.5	
* 114	Phenanthrene-D10	188	12.595	12.615	(1.000)	1734401	40.0000		
115	Disulfoton	88	12.667	12.698	(1.006)	598788	42.6756	42.7	
116	Phenanthrene	178	12.626	12.656	(1.002)	1746040	47.7136	47.7	
117	Dinoseb	211	12.657	12.687	(1.005)	410701	51.0249	51.0	
118	Anthracene	178	12.688	12.729	(1.007)	1698879	41.9309	41.9	
119	Carbazole	167	12.936	12.967	(1.027)	1740496	41.0112	41.0	
120	Methyl Parathion	109	13.153	13.174	(1.044)	364037	51.3092	51.3	
121	Di-n-butylphthalate	149	13.495	13.515	(1.071)	2344538	48.4807	48.5	
122	Ethyl Parathion	291	13.702	13.733	(1.088)	144591	47.9252	47.9(Q)	
123	Parathion	291	13.702	13.733	(1.088)	144591	47.9252	47.9(Q)	
124	4-Nitroquinoline-1-Oxide	190	13.692	13.712	(1.087)	181659	53.6959	53.7	
125	Methapyrilene	97	13.837	13.877	(1.099)	270200	27.1341	27.1	
126	Isodrin	193	14.002	14.012	(1.112)	230668	38.2740	38.3	
127	Fluoranthene	202	14.209	14.240	(1.128)	1891408	41.7330	41.7	
128	Pyrene	202	14.509	14.530	(0.893)	1934773	46.1689	46.2	
129	Benzidine	184	14.447	14.467	(0.889)	1195547	104.644	105	
$ 130	Terphenyl-D14	244	14.778	14.799	(0.910)	1514086	49.2019	49.2	
131	Aramite	185	14.923	14.933	(0.918)	190386	66.9464	66.9(R)	
132	p-Dimethylaminoazobenzene	225	14.985	15.006	(0.922)	429831	45.8837	45.9	
133	Chlorobenzilate	251	15.068	15.088	(0.927)	632255	46.5382	46.5	
135	3,3'-Dimethylbenzidine	212	15.441	15.451	(0.950)	463716	58.7486	58.7	
136	Butylbenzylphthalate	149	15.503	15.513	(0.954)	1063519	46.9854	47.0	
137	Bis(2-ethylhexyl)adipate	129	15.689	15.709	(0.966)	901310	44.5796	44.6	
138	2-Acetylaminofluorene	181	15.803	15.834	(0.973)	443098	37.9427	37.9	
139	3,3'-Dichlorobenzidine	252	16.248	16.258	(1.000)	742208	110.424	110	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1631.D
Report Date: 16-Nov-2023 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
	140 Benzo(a)anthracene	228	16.227	16.248	(0.999)	1521464	45.2888	45.3	
*	141 Chrysene-D12	240	16.248	16.268	(1.000)	1083573	40.0000		
	142 Chrysene	228	16.290	16.310	(1.003)	1397228	45.4309	45.4	
	143 bis(2-Ethylhexyl)phthalate	149	16.476	16.496	(1.014)	1459925	48.2091	48.2	
	145 Di-n-octylphthalate	149	17.759	17.769	(0.933)	1697087	50.2549	50.2	
	146 Benzo(b)fluoranthene	252	18.246	18.256	(0.958)	799628	46.8488	46.8	
	148 7,12-Dimethylbenz(A)Anthracen	256	18.256	18.276	(0.959)	375827	43.0541	43.0	
	149 Benzo(k)fluoranthene	252	18.297	18.328	(0.961)	725460	43.9733	44.0(H)	
	150 Benzo(a)pyrene	252	18.908	18.928	(0.993)	555677	42.1982	42.2	
*	151 Perylene-D12	264	19.043	19.053	(1.000)	464142	40.0000		
	152 3-Methylcholanthrene	268	19.715	19.736	(1.035)	245115	41.3339	41.3	
	153 Dibenz(a,j)acridine	279	20.781	20.802	(1.091)	270285	43.1982	43.2	
	154 Indeno(1,2,3-cd)pyrene	276	21.061	21.081	(1.106)	332024	46.3194	46.3	
	155 Dibenzo(a,h)anthracene	278	21.144	21.164	(1.110)	339800	47.6226	47.6	
	156 Benzo(g,h,i)perylene	276	21.558	21.578	(1.132)	345465	48.3719	48.4	
M	157 Total PAHs	100				20210926	772.759	773	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101823,b\U1631,D
Date : 18-OCT-2023 17:24
Client ID: WG343378-LCS
Sample Info: WG343378-2
Volume Injected (uL): 1.0
Column phase: Rxi-5ViOms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101823,b\U1631,D
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Aniline
-Phenol-D6
-Bis(2-chloroethyl)ether
-2-Chlorophenol
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-Bis(2-Chloroisopropyl)eth+
-Acetophenone+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-O,O,O-Triethylphosphorothi+
-1,2,4-Trichlorobenzene
-Naphthalene-D8+
-2,4-Dichlorophenol
-Hexachlorobutadiene
-Caprolactam
-N-Nitroso-Di-N-Butylamine
-4-Chloro-3-Methylphenol+
-2-Methylnaphthalene
-1-Methylnaphthalene
-1,2,4,5-Tetrachlorobenzen+
-2,4,6-Trichlorophenol
-2,4,5-Trichlorophenol
-Safrole+
-2-Nitroaniline
-1,4-Naphthoquinone
-Dimethyl Phthalate+
-3-Nitroaniline+
-2,4-Dinitrophenol
-Pentachlorobenzene+
-4-Nitrophenol+
-2,3,4,6-Tetrachlorophenol+
-Diethylphthalate+
-O,O-diethyl-o-2-pyrazinyl+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-Sulfotepp
-1,3,5-Trinitrobenzene+
-Phenacetin
-Dimethoate
-4-Aminobiphenyl+
-Pronamide+
-Disulfoton+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Methapyrilene
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Famphur-3,3'-Dimethylbenzidine
-Butylbenzylphthalate
-2-Acetylaminofluorene
-Bis(2-ethylhexyl)adipate
-3,3'-Dichlorobenzidine+
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene
-Dibenz(a,h)anthracene
-Benzo(g,h,i)perylene

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1632.D
Report Date: 16-Nov-2023 15:11

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U101823.b\U1632.D
Lab Smp Id: WG343378-3 Client Smp ID: WG343378-LCSD
Inj Date : 18-OCT-2023 17:56
Operator : DT Inst ID: gcms-u.i
Smp Info : WG343378-3
Misc Info : WG344071,WG343378,WG344071-4,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U101823.b\U8270C20.m
Meth Date : 16-Nov-2023 15:09 gcms-u.i Quant Type: ISTD
Cal Date : 18-OCT-2023 12:47 Cal File: U1622.D
Als bottle: 17 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD5.sub
Target Version: 4.12
Processing Host: TECHN0VA-01

Concentration Formula: Amt * DF * Uf*(Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

EP
3:25 pm, Nov 16, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
1	1,4-Dioxane	58	2.113	2.182	(0.256)	38393	13.6833	13.7	
2	N-Nitrosodimethylamine	42	2.517	2.617	(0.385)	81583	18.8148	18.8	
3	Pyridine	79	2.548	2.627	(0.390)	170028	12.3137	12.3(aM)	M6
5	2-Picoline	93	3.800	3.828	(0.582)	188613	11.2072	11.2(R)	
6	N-Nitrosomethylethylamine	88	4.007	4.066	(0.613)	203908	32.0103	32.0	
7	Methyl Methanesulfonate	80	4.514	4.573	(0.691)	363898	45.7958	45.8	
$ 8	2-Fluorophenol	112	4.794	4.821	(0.734)	616539	42.1023	42.1	
9	N-Nitrosodiethylamine	102	5.073	5.121	(0.777)	305948	42.2222	42.2	
10	Ethyl Methanesulfonate	79	5.560	5.597	(0.851)	691979	68.1450	68.1	
11	Benzaldehyde	77	5.943	5.949	(0.910)	344400	242.221	242(AR)	
$ 12	Phenol-D6	99	6.160	6.187	(0.943)	428242	29.0539	29.0	
13	Aniline	93	6.108	6.136	(0.935)	411404	21.5340	21.5(a)	
14	Phenol	94	6.181	6.208	(0.946)	434826	26.6204	26.6	
16	Bis(2-Chloroethyl)ether	93	6.232	6.260	(0.954)	526568	42.6343	42.6	
17	2-Chlorophenol	128	6.274	6.291	(0.960)	1129622	71.0749	71.1	
18	1,3-Dichlorobenzene	146	6.450	6.467	(0.987)	572935	29.3685	29.4	
* 19	1,4-Dichlorobenzene-D4	152	6.533	6.550	(1.000)	533814	40.0000	(Q)	
20	1,4-Dichlorobenzene	146	6.553	6.570	(1.003)	563695	30.9629	31.0	
21	Benzyl alcohol	108	6.781	6.819	(1.038)	246245	24.7780	24.8	
22	1,2-Dichlorobenzene	146	6.750	6.767	(1.033)	582744	30.6073	30.6	
23	Bis(2-Chloroisopropyl)ether	45	6.957	6.974	(1.065)	363455	32.2473	32.2(QH)	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1632.D
Report Date: 16-Nov-2023 15:11

EP
3:25 pm, Nov 16, 2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	24 2,2'-Oxybis(1-chloropropane)	45	6.957	6.974	(1.065)	363455	32.2598	32.2(QH)	
	25 2-Methylphenol	108	6.978	7.046	(1.068)	848170	60.9634	61.0	
	26 Acetophenone	105	7.112	7.140	(0.863)	1535488	78.5178	78.5	
	27 N-Nitrosopyrrolidine	100	7.112	7.191	(1.089)	200806	24.3990	24.4(Q)	
	28 N-Nitrosomorpholine	56	7.154	7.222	(1.095)	162406	34.0818	34.1	
	29 N-Nitroso-di-n-propylamine	70	7.154	7.202	(1.095)	307786	38.4648	38.5(Q)	
	30 3&4-Methylphenol	108	7.185	7.243	(1.100)	691546	51.6960	51.7	
	31 o-Toluidine	106	7.154	7.181	(1.095)	416392	21.4102	21.4(a)	
	32 Hexachloroethane	117	7.195	7.212	(1.101)	190737	24.9646	25.0	
$	33 Nitrobenzene-D5	82	7.299	7.326	(0.886)	596630	46.8901	46.9	
	34 Nitrobenzene	77	7.319	7.357	(0.888)	510475	41.7946	41.8	
	35 N-Nitrosopiperidine	114	7.537	7.574	(0.915)	346706	43.7502	43.8	
	36 Isophorone	82	7.681	7.698	(0.932)	973431	41.6280	41.6	
	37 2-Nitrophenol	139	7.754	7.771	(0.941)	806693	84.1251	84.1	
	38 2,4-Dimethylphenol	107	7.888	7.916	(0.957)	1024340	93.8453	93.8	
	39 O,O,O-Triethylphosphorothioat	198	7.971	7.999	(0.967)	312979	40.4891	40.5	
	40 Bis(2-Chloroethoxy)methane	93	7.992	8.019	(0.970)	811315	46.7980	46.8	
	42 2,4-Dichlorophenol	162	8.385	8.423	(1.018)	1059511	94.6968	94.7	
	43 1,2,4-Trichlorobenzene	180	8.178	8.195	(0.992)	481279	32.3501	32.4	
*	44 Naphthalene-D8	136	8.240	8.257	(1.000)	1678476	40.0000		
	45 Naphthalene	128	8.261	8.288	(1.002)	1548974	39.4661	39.5	
	46 alpha-Terpineol	59	8.344	8.371	(1.013)	349344	46.6735	46.7	
	47 4-Chloroaniline	127	8.385	8.413	(1.018)	364049	17.5940	17.6	
	48 2,6-Dichlorophenol	162	8.385	8.423	(1.018)	1059511	94.6968	94.7	
	49 Hexachloropropene	213	8.385	8.402	(1.018)	262810	25.6087	25.6	
	50 Hexachlorobutadiene	225	8.458	8.475	(1.026)	247381	27.7840	27.8	
	52 N-Nitroso-Di-N-Butylamine	84	8.882	8.909	(1.078)	392257	44.9913	45.0	
	54 Caprolactam	113	8.934	9.023	(1.084)	28669	6.80233	6.80(aRH)	
	55 4-Chloro-3-Methylphenol	107	9.099	9.147	(1.104)	891902	95.3629	95.4(Q)	
	56 Isosafrole	162	9.120	9.147	(1.107)	487116	39.2605	39.3	
	57 2-Methylnaphthalene	142	9.203	9.220	(1.117)	1042801	37.8337	37.8	
	58 1-Methylnaphthalene	142	9.327	9.354	(1.132)	1000208	37.2133	37.2	
	59 1,2,4,5-Tetrachlorobenzene	216	9.431	9.448	(0.891)	880736	74.4427	74.4	
	60 Hexachlorocyclopentadiene	237	9.431	9.437	(0.891)	171964	23.5363	23.5	
	61 2,4,6-Trichlorophenol	196	9.617	9.644	(0.908)	768548	81.8674	81.9	
	62 2,4,5-Trichlorophenol	196	9.679	9.717	(0.914)	872025	86.4019	86.4	
$	63 2-Fluorobiphenyl	172	9.731	9.748	(0.919)	1324629	48.1570	48.2	
	64 Safrole	104	9.824	9.851	(0.928)	200796	42.9765	43.0(Q)	
	65 1,1'-Biphenyl	154	9.855	9.882	(0.931)	1143173	42.9085	42.9	
	66 2-Chloronaphthalene	127	9.855	9.882	(0.931)	448982	36.3386	36.3(M)	M3
	67 1-Chloronaphthalene	127	9.876	9.903	(0.933)	344081	37.2843	37.3(M)	M6
	69 2-Nitroaniline	65	10.021	10.048	(0.946)	263409	39.5918	39.6(Q)	
	70 1,4-Naphthoquinone	158	10.114	10.120	(0.955)	514744	77.7174	77.7(R)	
	72 Dimethyl Phthalate	163	10.321	10.358	(0.975)	1347306	45.6276	45.6	
	73 1,3-Dinitrobenzene	168	10.321	10.379	(0.975)	242522	45.5301	45.5	
	74 2,6-Dinitrotoluene	165	10.372	10.410	(0.979)	342198	47.5773	47.6(Q)	
	75 Acenaphthylene	152	10.393	10.421	(0.981)	1588932	41.9506	42.0	
	77 3-Nitroaniline	138	10.579	10.648	(0.999)	303310	36.4283	36.4	
*	78 Acenaphthene-D10	164	10.590	10.607	(1.000)	984209	40.0000		
	79 Acenaphthene	153	10.642	10.659	(1.005)	1037990	44.1378	44.1	
	80 2,4-Dinitrophenol	184	10.735	10.793	(1.014)	362261	69.9087	69.9	
	81 Pentachlorobenzene	250	10.818	10.845	(1.022)	490009	43.5344	43.5	
	82 4-Nitrophenol	109	10.931	10.979	(1.032)	106580	24.9538	25.0(Q)	
	83 Dibenzofuran	168	10.880	10.897	(1.027)	1563637	44.2433	44.2	

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Report Date: 16-Nov-2023 15:11

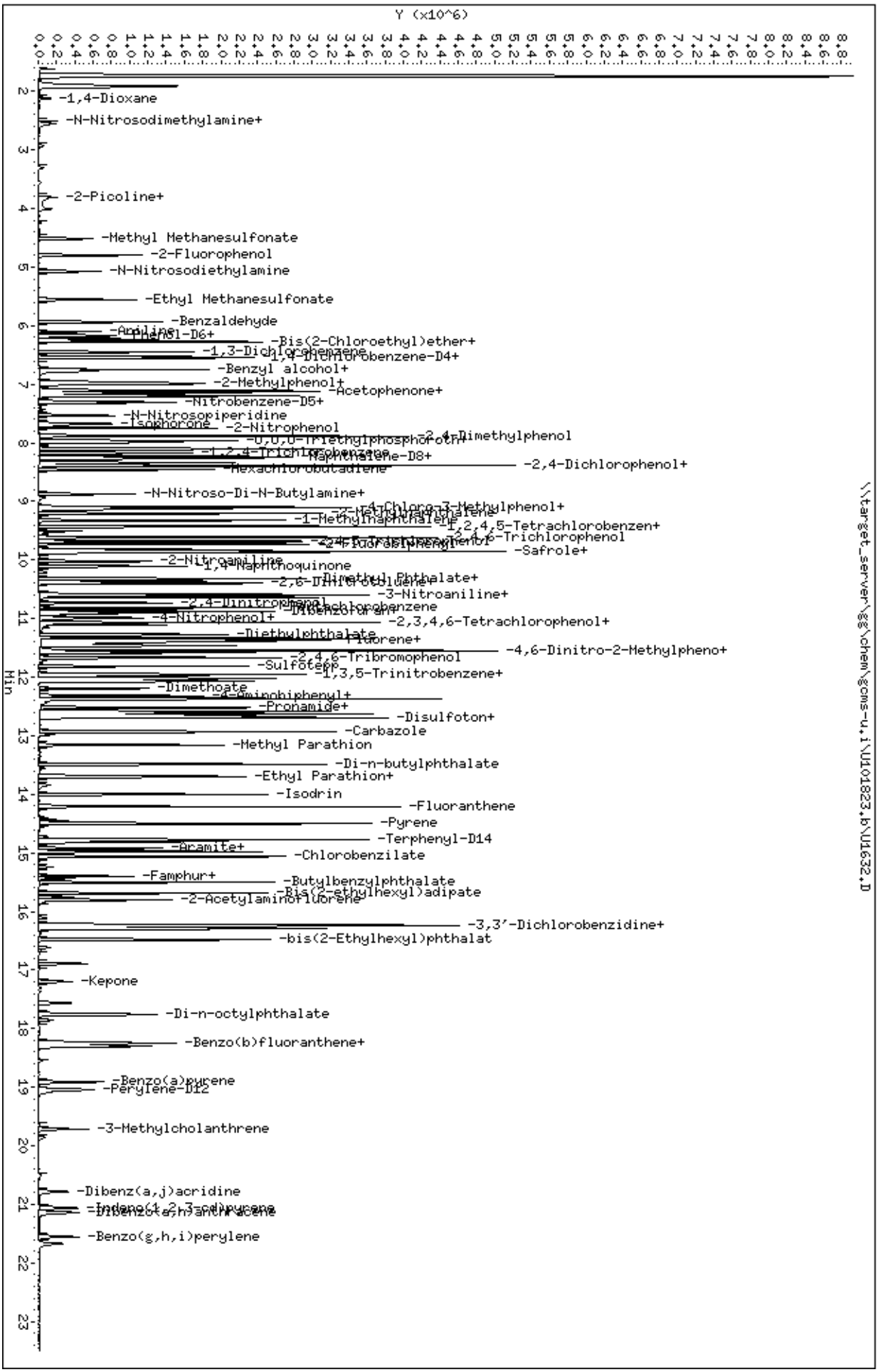
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
84	2,4-Dinitrotoluene	165	10.911	10.969	(1.030)	464321	44.9958	45.0	
85	1-Naphthylamine	143	10.993	11.021	(1.038)	545856	20.1996	20.2	
87	2,3,4,6-Tetrachlorophenol	232	11.066	11.104	(1.045)	654432	85.9611	86.0	
88	2-Naphthylamine	143	11.107	11.145	(1.049)	614209	21.7016	21.7	
89	Diethylphthalate	149	11.273	11.311	(1.065)	1417741	47.3912	47.4	
90	O,O-diethyl-o-2-pyrazinylphos	107	11.376	11.424	(1.074)	259894	50.4254	50.4(H)	
91	Thionazin	107	11.376	11.424	(1.074)	259894	50.4254	50.4(H)	
92	Fluorene	166	11.335	11.362	(1.070)	1263328	44.8419	44.8	
93	4-Chlorophenyl-phenylether	204	11.366	11.393	(1.073)	608500	43.5402	43.5	
94	5-Nitro-O-Toluidine	152	11.397	11.456	(1.076)	465525	46.4890	46.5(Q)	
95	4-Nitroaniline	138	11.428	11.507	(1.079)	363891	42.3803	42.4	
96	4,6-Dinitro-2-Methylphenol	198	11.470	11.518	(0.911)	581288	96.2400	96.2	
97	N-Nitrosodiphenylamine	169	11.552	11.580	(0.918)	1971906	98.4838	98.5	
98	1,2-Diphenylhydrazine	77	11.583	11.600	(0.920)	1017868	44.5347	44.5	
99	Azobenzene	77	11.583	11.600	(0.920)	1017868	44.5347	44.5	
$ 100	2,4,6-Tribromophenol	330	11.666	11.694	(1.102)	381094	99.4737	99.5	
101	Sulfotepp	97	11.811	11.839	(0.938)	218906	46.7819	46.8	
102	1,3,5-Trinitrobenzene	213	11.987	12.066	(0.952)	174870	54.0139	54.0(Q)	
103	Diallate	86	11.946	11.973	(0.949)	383626	55.3467	55.3	
104	Phorate	75	11.956	11.983	(0.950)	531831	32.6984	32.7(H)	
105	Phenacetin	108	12.039	12.118	(0.956)	564559	42.0472	42.0	
106	4-Bromophenyl-phenylether	248	12.018	12.046	(0.955)	386416	46.1996	46.2	
107	Hexachlorobenzene	284	12.070	12.097	(0.959)	396322	46.6776	46.7	
108	Dimethoate	87	12.194	12.253	(0.969)	412332	57.0210	57.0	
109	Atrazine	200	12.318	12.356	(0.979)	282169	49.1068	49.1(H)	
110	4-Aminobiphenyl	169	12.380	12.418	(0.984)	826969	33.1588	33.2	
111	Pentachlorophenol	266	12.370	12.397	(0.983)	540490	90.0711	90.1	
112	Pentachloronitrobenzene	237	12.360	12.387	(0.982)	183317	47.2024	47.2	
113	Pronamide	173	12.525	12.563	(0.995)	689368	47.8565	47.8	
* 114	Phenanthrene-D10	188	12.587	12.615	(1.000)	1704690	40.0000		
115	Disulfoton	88	12.670	12.698	(1.007)	635138	46.0553	46.0	
116	Phenanthrene	178	12.618	12.656	(1.002)	1735319	48.3908	48.4(H)	
117	Dinoseb	211	12.650	12.687	(1.005)	432054	54.6133	54.6	
118	Anthracene	178	12.691	12.729	(1.008)	1755945	44.8737	44.9	
119	Carbazole	167	12.939	12.967	(1.028)	1862682	46.6577	46.6	
120	Methyl Parathion	109	13.157	13.174	(1.045)	441082	63.2518	63.2	
121	Di-n-butylphthalate	149	13.488	13.515	(1.072)	2444975	53.1770	53.2	
122	Ethyl Parathion	291	13.705	13.733	(1.089)	153742	51.8465	51.8(Q)	
123	Parathion	291	13.705	13.733	(1.089)	153742	51.8465	51.8(Q)	
124	4-Nitroquinoline-1-Oxide	190	13.685	13.712	(1.087)	205863	61.9109	61.9	
125	Methapyrilene	97	13.695	13.877	(1.088)	310286	31.7028	31.7(Q)	
126	Isodrin	193	13.995	14.012	(1.112)	246049	42.3940	42.4	
127	Fluoranthene	202	14.212	14.240	(1.129)	1915159	43.7224	43.7	
128	Pyrene	202	14.502	14.530	(0.892)	2051813	49.4225	49.4	
$ 130	Terphenyl-D14	244	14.782	14.799	(0.910)	1505336	49.3778	49.4	
131	Aramite	185	14.916	14.933	(0.918)	201785	71.6223	71.6(R)	
132	p-Dimethylaminoazobenzene	225	14.978	15.006	(0.922)	450522	48.5449	48.5	
133	Chlorobenzilate	251	15.071	15.088	(0.927)	692179	51.4283	51.4	
135	3,3'-Dimethylbenzidine	212	15.434	15.451	(0.950)	174519	22.3180	22.3	
136	Butylbenzylphthalate	149	15.506	15.513	(0.954)	1120403	49.9642	50.0	
137	Bis(2-ethylhexyl)adipate	129	15.682	15.709	(0.965)	940719	46.9666	47.0	
138	2-Acetylaminofluorene	181	15.806	15.834	(0.973)	487995	42.1804	42.2	
139	3,3'-Dichlorobenzidine	252	16.251	16.258	(1.000)	763648	117.623	118	
140	Benzo(a)anthracene	228	16.231	16.248	(0.999)	1564869	47.0191	47.0	

Data File: \\target_server\gg\chem\gcms-u.i\U101823.b\U1632.D
Report Date: 16-Nov-2023 15:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
* 141 Chrysene-D12	240	16.251	16.268	(1.000)	1073473	40.0000		
142 Chrysene	228	16.293	16.310	(1.003)	1453677	47.7110	47.7	
143 bis(2-Ethylhexyl)phthalate	149	16.479	16.496	(1.014)	1501108	50.0354	50.0	
145 Di-n-octylphthalate	149	17.762	17.769	(0.933)	1717288	51.0103	51.0	
146 Benzo(b)fluoranthene	252	18.239	18.256	(0.958)	801266	47.0898	47.1	
148 7,12-Dimethylbenz(A)Anthracen	256	18.259	18.276	(0.959)	377842	43.4187	43.4	
149 Benzo(k)fluoranthene	252	18.301	18.328	(0.961)	771180	46.8891	46.9(H)	
150 Benzo(a)pyrene	252	18.911	18.928	(0.993)	576122	43.8861	43.9	
* 151 Perylene-D12	264	19.046	19.053	(1.000)	462712	40.0000		
152 3-Methylcholanthrene	268	19.719	19.736	(1.035)	246283	41.6592	41.6	
153 Dibenz(a,j)acridine	279	20.785	20.802	(1.091)	289736	46.0989	46.1	
154 Indeno(1,2,3-cd)pyrene	276	21.064	21.081	(1.106)	342023	47.6905	47.7	
155 Dibenzo(a,h)anthracene	278	21.147	21.164	(1.110)	357063	49.8991	49.9	
156 Benzo(g,h,i)perylene	276	21.551	21.578	(1.132)	365475	50.9676	51.0	
M 157 Total PAHs	100				21172144	813.005	813	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U101823,b\U1632.D
Date : 18-OCT-2023 17:56
Client ID: WG343378-LCSD
Sample Info: WG343378-3
Volume Injected (uL): 1.0
Column phase: Rxi-5ViOms
Instrument: gcms-u,i
Operator: DT
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U101823,b\U1632.D
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Aniline
-Phenol-D6+
-Bis(2-Chloroethyl)ether+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol+
-2-Methylphenol+
-Acetophenone+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-O,O,O-Triethylphosphorothi
-1,2,4-Trichlorobenzene
-Naphthalene-D8+
-2,4-Dichlorophenol+
-Hexachlorobutadiene
-N-Nitroso-Di-N-Butylamine+
-4-Chloro-3-Methylphenol+
-2-Methylnaphthalene
-1-Methylnaphthalene
-1,2,4,5-Tetrachlorobenzen+
-2,4,6-Trichlorophenol
-2-Fluorobiphenyl
-Safrole+
-2-Nitroaniline
-1,4-Naphthoquinone
-Dimethyl Phthalate+
-2,6-Dinitrotoluene+
-3-Nitroaniline+
-2,4-Dinitrophenol
-Dibenzofuran
-4-Nitrophenol+
-2,3,4,6-Tetrachlorophenol+
-Diethylphthalate
-Fluorene+
-4,6-Dinitro-2-Methylpheno+
-2,4,6-Tribromophenol
-Sulfotepp
-1,3,5-Trinitrobenzene+
-Dimethoate
-4-Aminobiphenyl+
-Pronamide+
-Disulfoton+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Isodrin
-Fluoranthene
-Pyrene
-Terphenyl-D14
-Aramite+
-Chlorobenzilate
-Famphur+
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-3,3'-Dichlorobenzidine+
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene
-Dibenz(a,h)anthracene
-Benzo(g,h,i)perylene

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES, LLC. Non-Volatile TCLP/SPLP Extraction Log

I. EXTRACTION CONDITIONS

Extraction Method:	SW846 1311 (TCLP) ☐ SW846 1312 (SPLP) ☐		Balance ID: BAL-09	Rotary Extractor ID:		
			pH Probe ID:	pH Meter ID: Fisher AB315 S/N A11928		
Solid pH Determination:	Date:	Analyst:	Room Thermometer ID:	(Room Temp Criteria. 23(±2)°C)		
Rotary Extraction Started:	Date:	Time:	Analyst:	RoomTemp(°C):	Start:	End:
Rotary Extraction Completed:	Date:	Time:	Analyst:	Room Temp (°C):	Min.	Max.
Extraction Filtered:	Date:	Time:	Analyst:	Filter Lot #: 600D191992		
Elapsed Extraction Time (HH:MM):		5% HNO_3 ID (used to wash filters): MB-5749 MB-3227		HNO_3 Lot # (used to preserve extracts): MB-387		
Fluid 1 pH (Day of use):		Fluid 1 Expiration Date: 10/16-18-25		Rotary Extractor Rotation Rate Checked?		
Fluid 2 pH (Day of use):		Fluid 2 Expiration Date:		Criteria, 30 ± 2 RPM		

II. EXTRACTION SETUP TCLP Fluid pH: #1 - 4.93 ± 0.05 #2 - 2.88 ± 0.05 SPLP Fluid pH: #1 - 4.20 ± 0.05 #2 - 5.00 ± 0.05

Katahdin Sample No. (include bottle ID)	Matrix	Check One: 100% Wet Solids- waste will yield no liquid upon filtration	Check One: < 100% Wet Solids (Perform Solids Determination below)	SPLP FLUID # (1 for east and 2 for west of Mississippi River)	TCLP pH Determination and Fluid Selection (date & init. above): Initial pH of solid phase: (if <5, use Fluid #1; if >5 add 3.5 mL of 1 N HCl)	pH after 1 N HCL addition (if <5, use Fluid #1; if >5, use Fluid #2	Extraction Setup: Volume of Extraction Fluid (mL)	Fluid # used	Associated Extraction Blank ID:	Weight of Waste (g)	pH of extract after extraction:	Extract to be analyzed for: Metals (M), SVOA (S), PEST (P), Herb (H), Cyanide (C)	Extraction Bottle ID (if applicable)

CD 9-27-23

ME-001 – Revision 8 – 05/03/2023



III. SOLIDS DETERMINATION

Date AQ Filtered: 9-27-23

Katahdin Sample No. (include bottle ID)	AQ or SL	Time Filt'd	A Weight of filter (g)	B Weight of filtrate vessel (g)	C Weight of weigh boat + waste (g)	D Weight of weigh boat + residue (g)	E Weight of waste (C-D) (g)	F Weight of filtrate vessel + filtrate (g)	G Weight of liquid phase (F-B) (g)	H Percent wet solids [(E-G)/E x 100%]	I Weight of filter + dry solids (g)	J Weight of dry solids (I-A) (g)	K Percent dry solids (J/E x 100%)
SQ5108-13	AQ	1330	1.20	15.46	120.63	14.73	105.89	118.36	103.90	2.82	1.22	0.02	0.02%
CD 9-27													

IV. PHASE SEPARATION

Katahdin Sample No. (include bottle ID)	Matrix	Percent dry solids [1] <0.5%	Percent dry solids [1] >0.5%	L Weight of filtrate vessel (g)	M Weight of weigh boat + waste (g)	N Weight of weigh boat + residue (g)	O Weight of waste (M-N) (g)	P Weight of filtrate vessel + filtrate (g)	Q Weight of liquid phase (P-L) (g)	R Volume of liquid phase (mL) [2]	S Weight of wet solids (O - Q) (g)

CD 9-27-23

1) If dry solids is <0.5%, filter sufficient volume of waste to support all required analyses. If dry solids >0.5% and wet solids <100%, perform phase separation (steps L – S above).

2) If miscible, proportionately combine pre-extraction filtrate with rotary extract. If not miscible, analyze aliquots separately and mathematically combine results.

V. COMMENTS:

CD 9-27-23

Reviewed By_____ Date_____

SVOA
SEP

KATAHDIN ANALYTICAL SERVICES, LLC.
ORGANIC EXTRACTIONS LOG - AQUEOUS SEMI-VOLATILES

Extraction Method: (check one)	SW846 3510 (SEP) X	SW846 3520 (CLLE)	
Analytical Method: (check one)	SW846 8270 X	SW846 8270 SIM	Other:
Surrogate ID: SV3176	Surrogate ID: SV3178 SVOA	Spike ID: SV3174 APIX	Spike ID:
Methylene Chloride Lot #: EH2206-US	pH Paper Lot # 6303005	KI Starch Paper ID: 03062023	If positive, note in comments and contact the PM, the client may need to resample.
pH (1st Extraction) ≤2	H_2SO_4 Lot # RE1014	pH (2nd Extraction) ≥11	NaOH Lot # 218750
$NaSO_4$ Lot # RE1018	Filter Paper Lot #: CX0168	Boiling Stones ID: —	Vial Lot #: CX0164 ✓
Nitrogen Bath Temperature: 40C			Client ID vs KAS ID Verified:
Prep Start Time: 11:35	Prep End Time: 12:00	CLLE Start Time: —	CLLE End Date & Time: —

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location SV9168	Initials	Comments R624093
10/2/23	SH SR	WG343378-1	1000	1.0	N/A	/		1.00	10/4/23	D7	SR	MB
↓	↓	-2	↓	↓	1.0	/		↓	↓	D8	↓	LCS + APIX
↓	↓	-3	↓	↓	↓	/		↓	↓	D9	↓	LCSDL
↓	↓	-4	200	↓	↓	/		↓	↓	D10	↓	TCLP Blank PBT 1813A
									10/4/23			

EX-007 – Revision 7– 09/22/2020

QAEX501_000802 0000098

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location	Initials	Comments
10/2/23	SH SR	SQ5108 -1	200	1.0	N/A	X	X	1.00	10/4/23	E1	SR	TCLP
↓	↓	SQ5109 -1	200	↓	↓	X		↓	↓	E2	↓	↓
		SQ5205 -1	1070			X				E3		
		↓ -2	1070			X				E4		
		SQ5235 -1	1070			X				E5		APIX very black,
↓	↓	↓ -2	1070	↓	↓	X		↓	↓	E6	↓	↓ took 10 pipettes H_2SO_4 to acidify
												big emulsion
												thick, dark, smelly
									10/4/23			

CH 01218

Reviewed By _____ Date _____

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5973-U

DATE OF DFTPP INJECTION: 10/18/23

WORKGROUP	SAMPLE	DATAFILE	DF	VIAL #	METHOD	UL INJ	CHEMIST	COMMENTS
WG344071-1	50 ng DFTPP	UD935	1	1	DFTPP390	2.0	DT	OK
-4	SSTD 50 U1018	U1617		2	V8270C20	1.0		OK
-3	25	18		3				OK
-2	10	19		4				OK
-5	75	20		5				OK
-6	100	21		6				OK
-7	125	22		7				OK
-8	IND	23		8				OK
	WG342736-1RA	24		9				IS6↑ OK
	SQ4875-1RA	25		10				IS6↑ OK
	-2RA	26		11				IS6↑ OK
	WG343703-1	27		12				IS6↑
	-2	28		13				2↓2↑ OK
	-3	29		14				2↓1↑ OK
	WG343378-1	30		15				IS6↑
	-2	31		16				2↑1↓ OK
	-3	32		17				2↓3↑ OK
	-4	33		18				PB71813 OK
	SQ5408-1	34		19				SS4-6↓ Matrix OK
	SQ5735-1	35		20				IS5↓ SS4↓ Matrix OK
	-2	36		21				IS5↓ SS4↓ Matrix OK
-9	SSTD 50 U1018	37		2				2750% use cell
-10		38		2				
-11		39		2				
	NARROW MOUTH	40		22				INTERNAL LIB
	WIDE MOUTH	41		23				10/19/23 DT

STANDARD	CODE	MeCl2 Lot #
DFTPP	S4025	EH206-05
CAL. STD.	S4028	
ICV. STD.	S3998 S4012	
IS MIX	SK6534	

REVIEWED AND APPROVED BY: _____
DATE: _____

KATAHDIN ANALYTICAL SERVICES

GC/MS SVOA INJ LOG INSTRUMENT: 5973-U » 10/20/23 DT

DATE OF DFTPP INJECTION: 10/19/23

WORKGROUP	SAMPLE	DATAFILE	DF	VIAL #	METHOD	UL INJ	CHEMIST	COMMENTS
WG344145-1	~~SSTD 2 SQ 41019~~ (50 ng DFTPP)	UD936	1	1	DFTPP390	2.0	DT	OK
-2	SSTD50 U10 19	U1642	1	2	U8270C20	1.0		OK
	SQ4929-1	43		3				SS1,5,6↓
	-3	44		4				OK
	-5	45		5				OK
	-7	46		6				OK
	-9	47		7				ACIDS↓
	SQ4955-1	48		8				SS1↓(710%) OK
	-2	49		9				SS2↑ OK
	-3	50		16				SS2↑ OK
	-4	51		11				SS2↑ OK
	SQ5108-1	52		12				OK
	SQ5109-1	53		13				OK
	SQ5205-1	54		14				OK
	-2	55		15				OK
	WG342884-1	56		16				OK
	-2	57		17				2↓1↑ OK
	SQ4987-3	58		18				OK
	-4	59		19				SS4↑ OK
	-13	60		20				OK
-3	SSTD SQ U1019	61		2				OK
-4		62		2				-NOT USED-
-5		63		2				
								10/20/23 DT

STANDARD	CODE	MeCl2 Lot #
DFTPP	SQ025	FH206-05
CAL. STD.	SQ028	
ICV. STD.	~~SQ398 SQ019~~	
IS MIX	STL6534	

REVIEWED AND APPROVED BY: _____

DATE: _____

TCLP PESTICIDE DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **SDG:** SQ5108 **Matrix:** AQ

Client Sample ID	Lab Sample ID	Col. ID	DCB	#	TCX	#
DOW-AQWC-01	SQ5108-1RE	A	69.6		71.8	
DOW-AQWC-01	SQ5108-1RE	B	72.4		67.0	
Method Blank	WG343476-1	A	55.7		71.9	
Method Blank	WG343476-1	B	56.6		67.3	
Laboratory Control S	WG343476-2	A	68.3		74.2	
Laboratory Control S	WG343476-2	B	69.6		69.2	
Laboratory Control S	WG343476-3	A	63.0		78.7	
Laboratory Control S	WG343476-3	B	62.6		72.0	
Laboratory Control S	WG343476-4	A	55.6		67.8	
Laboratory Control S	WG343476-4	B	57.5		63.2	
Laboratory Control S	WG343476-5	A	63.2		69.4	
Laboratory Control S	WG343476-5	B	64.8		65.3	

Abbr.	Surrogate Compound	QC Limits
DCB	Decachlorobiphenyl	41-131
TCX	Tetrachloro-M-Xylene	44-124

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Lab File ID : 1QJ00037.D
Instrument ID : GC01
Matrix : AQ

SDG : SQ5108
Lab Sample ID : WG343476-1
Date Extracted : 04-OCT-23
Extraction Method : SW846 3510C

Column A
Date Analyzed : 06-OCT-23
Time Analyzed : 15:51

Column B
Date Analyzed : 06-OCT-23
Time Analyzed : 15:51

This Method Blank applies to the following samples and QC samples:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG343476-2	1QJ00038.I	10/06/23	16:11
Laboratory Control S	WG343476-3	1QJ00039.I	10/06/23	16:30
Laboratory Control S	WG343476-4	1QJ00040.I	10/06/23	16:50
Laboratory Control S	WG343476-5	1QJ00041.I	10/06/23	17:09
DOW-AQWC-01	SQ5108-1RE	1QJ00042.I	10/06/23	17:29

Form 8
Analytical Sequence

Lab Name: Katahdin Analytical Services **SDG:** SQ5108
Instrument ID: GC01 **Column ID:** A

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCX	DCB	
Breakdown Evaluation	WG342485-1	09/11/23	20:29			
Initial Calibration	WG342485-2	09/11/23	20:49	3.19	9.722	
Initial Calibration	WG342485-3	09/11/23	21:08	3.191	9.722	
Initial Calibration	WG342485-4	09/11/23	21:28	3.189	9.724	
Initial Calibration	WG342485-5	09/11/23	21:47	3.189	9.723	
Initial Calibration	WG342485-6	09/11/23	22:07	3.19	9.723	
Initial Calibration	WG342485-7	09/11/23	22:26	3.191	9.723	
Independent Source	WG342485-8	09/11/23	22:46			
Initial Calibration	WG342486-1	09/11/23	23:05			
Initial Calibration	WG342486-2	09/11/23	23:25			
Initial Calibration	WG342486-3	09/11/23	23:44			
Initial Calibration	WG342486-4	09/12/23	00:04			
Initial Calibration	WG342486-5	09/12/23	00:23			
Initial Calibration	WG342486-6	09/12/23	00:43			
Independent Source	WG342486-7	09/12/23	01:02			
Initial Calibration	WG342487-1	09/12/23	12:52			
Initial Calibration	WG342487-2	09/12/23	13:11			
Initial Calibration	WG342487-3	09/12/23	13:31			
Initial Calibration	WG342487-4	09/12/23	13:50			
Initial Calibration	WG342487-5	09/12/23	14:09			
Initial Calibration	WG342487-6	09/12/23	14:29			
Independent Source	WG342487-7	09/12/23	14:48			
Breakdown Evaluation	WG343657-1	10/06/23	12:12			
Continuing Calibrati	WG343657-2	10/06/23	12:32	3.112	9.642	
Continuing Calibrati	WG343657-3	10/06/23	15:13			
Continuing Calibrati	WG343657-4	10/06/23	15:32			
Method Blank	WG343476-1	10/06/23	15:51	3.114	9.644	
Laboratory Control S	WG343476-2	10/06/23	16:11	3.114	9.643	
Laboratory Control S	WG343476-3	10/06/23	16:30	3.113	9.643	
Laboratory Control S	WG343476-4	10/06/23	16:50	3.112	9.642	
Laboratory Control S	WG343476-5	10/06/23	17:09	3.113	9.641	
DOW-AQWC-01	SQ5108-1RE	10/06/23	17:29	3.112	9.64	
Continuing Calibrati	WG343657-5	10/06/23	20:25	3.111	9.638	
Continuing Calibrati	WG343657-6	10/06/23	20:44			
Continuing Calibrati	WG343657-7	10/06/23	21:04			

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Form 8
Analytical Sequence

Lab Name: Katahdin Analytical Services **SDG:** SQ5108
Instrument ID: GC01 **Column ID:** B

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCX	DCB	
Breakdown Evaluation	WG342485-1	09/11/23	20:29			
Initial Calibration	WG342485-2	09/11/23	20:49	3.672	11.24	
Initial Calibration	WG342485-3	09/11/23	21:08	3.672	11.24	
Initial Calibration	WG342485-4	09/11/23	21:28	3.671	11.24	
Initial Calibration	WG342485-5	09/11/23	21:47	3.671	11.24	
Initial Calibration	WG342485-6	09/11/23	22:07	3.671	11.24	
Initial Calibration	WG342485-7	09/11/23	22:26	3.673	11.24	
Independent Source	WG342485-8	09/11/23	22:46			
Initial Calibration	WG342486-1	09/11/23	23:05			
Initial Calibration	WG342486-2	09/11/23	23:25			
Initial Calibration	WG342486-3	09/11/23	23:44			
Initial Calibration	WG342486-4	09/12/23	00:04			
Initial Calibration	WG342486-5	09/12/23	00:23			
Initial Calibration	WG342486-6	09/12/23	00:43			
Independent Source	WG342486-7	09/12/23	01:02			
Initial Calibration	WG342487-1	09/12/23	12:52			
Initial Calibration	WG342487-2	09/12/23	13:11			
Initial Calibration	WG342487-3	09/12/23	13:31			
Initial Calibration	WG342487-4	09/12/23	13:50			
Initial Calibration	WG342487-5	09/12/23	14:09			
Initial Calibration	WG342487-6	09/12/23	14:29			
Independent Source	WG342487-7	09/12/23	14:48			
Breakdown Evaluation	WG343657-1	10/06/23	12:12			
Continuing Calibrati	WG343657-2	10/06/23	12:32	3.594	11.13	
Continuing Calibrati	WG343657-3	10/06/23	15:13			
Continuing Calibrati	WG343657-4	10/06/23	15:32			
Method Blank	WG343476-1	10/06/23	15:51	3.593	11.13	
Laboratory Control S	WG343476-2	10/06/23	16:11	3.594	11.13	
Laboratory Control S	WG343476-3	10/06/23	16:30	3.594	11.13	
Laboratory Control S	WG343476-4	10/06/23	16:50	3.594	11.13	
Laboratory Control S	WG343476-5	10/06/23	17:09	3.593	11.13	
DOW-AQWC-01	SQ5108-1RE	10/06/23	17:29	3.593	11.13	
Continuing Calibrati	WG343657-5	10/06/23	20:25	3.591	11.12	
Continuing Calibrati	WG343657-6	10/06/23	20:44			
Continuing Calibrati	WG343657-7	10/06/23	21:04			

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL, "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery or percent RPD (relative percent difference) was outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

And/or

J Used for Dual Column analytes when there is a greater than 40% difference for detected concentrations between the two GC/HPLC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

I Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration (ICAL).

D Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration Verification (ICV).

C Indicates that the flagged compound did not meet DoD criteria in the corresponding opening Calibration Verification (CV).

V Indicates that the flagged compound did not meet DoD criteria in the corresponding closing Calibration Verification (CV).

L/LL Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M/MM Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike (MS) and/or Matrix Spike Duplicate MSD) prepared and/or analyzed concurrently with the native sample.

H Indicates the flagged compound was detected on the primary column but was not detected on the confirmation column therefore the compound is not reported as a positive detection. (SW846 8330A/B only)

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5108
Lab ID: SQ5108-1RE
Client ID: DOW-AQWC-01
Matrix: AQ
Lab File ID: 1QJ00042.D

Sample Date: 21-SEP-23
Extract Date: 04-OCT-23
Extracted By: SH/SR
Extraction Method: 3510C/1311
Lab Prep Batch: WG343476

Report Date: 01-NOV-23
Analysis Date: 06-OCT-23
Analyst: AD
Analysis Method: SW846 8081B
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
gamma-BHC	U	0.12	ug/L	1	.05	0.25	0.060	0.12
Heptachlor	U	0.12	ug/L	1	.05	0.25	0.060	0.12
Heptachlor Epoxide	U	0.12	ug/L	1	.05	0.25	0.060	0.12
Endrin	U	0.25	ug/L	1	.1	0.50	0.12	0.25
Methoxychlor	U	1.2	ug/L	1	.5	2.5	0.60	1.2
Technical Chlordane	U	1.2	ug/L	1	.5	2.5	0.60	1.2
Toxaphene	U	2.5	ug/L	1	1	5.0	1.2	2.5
Tetrachloro-M-Xylene		71.8	%					
Decachlorobiphenyl		72.4	%					

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Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00042.D
Report Date: 01-Nov-2023 12:33

Katahdin Analytical Services

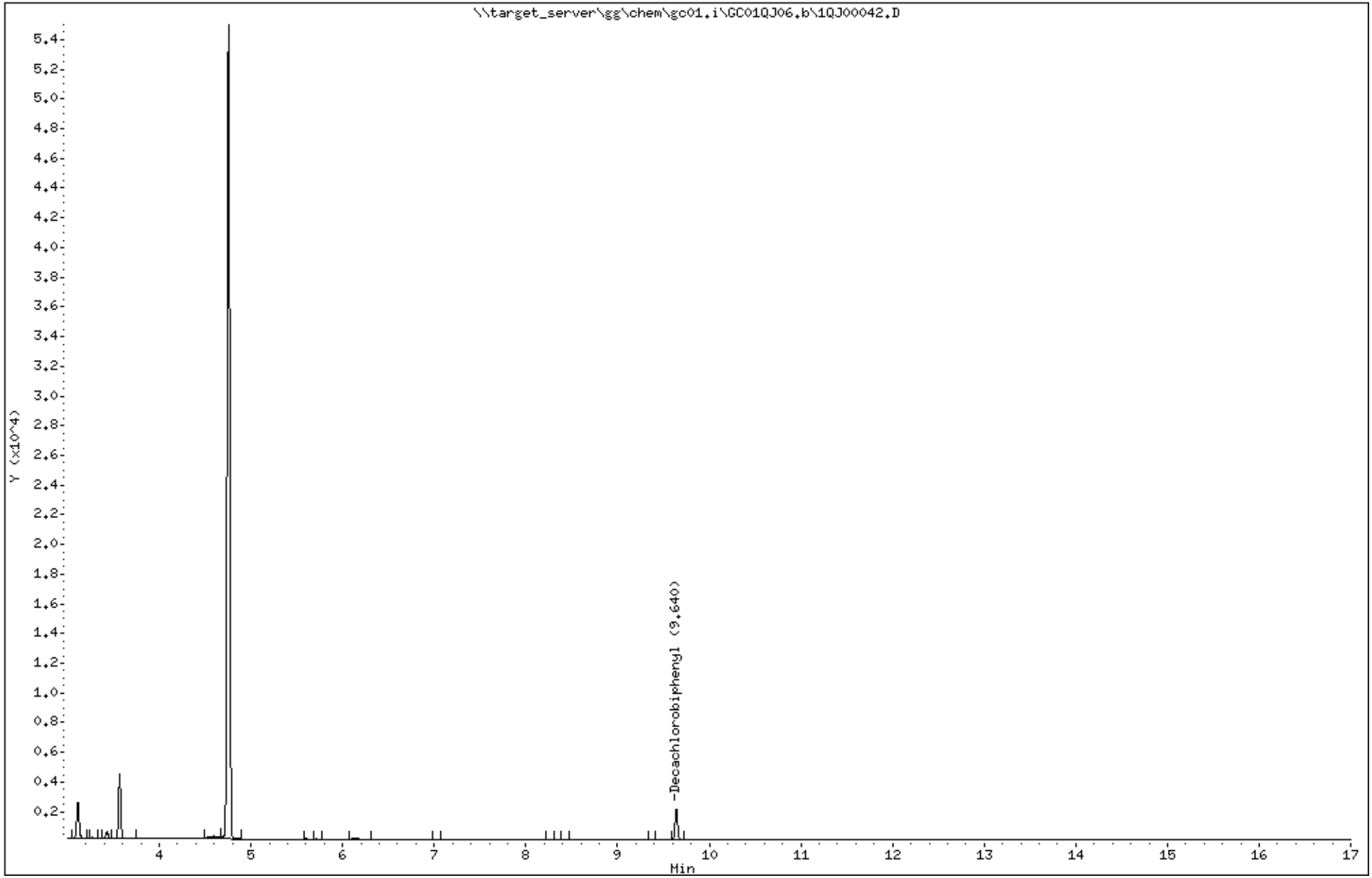
Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00042.D
Lab Smp Id: SQ5108-1RE Client Smp ID: DOW-AQWC-01
Inj Date : 06-OCT-2023 17:29
Operator : AD Inst ID: gc01.i
Smp Info : SQ5108-1RE
Misc Info : WG343657,WG343476,WG342485-2
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09 Cal File: 1QI00078.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_8081.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	0.20000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/L)	REVIEW CODE
$ 4 Tetrachloro-m-Xylene	3.112	3.111	0.001	2393	0.07174	3.59	
$ 34 Decachlorobiphenyl	9.640	9.638	0.002	2030	0.06957	3.48	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00042.D
Date : 06-OCT-2023 17:29
Client ID: DOW-AQWC-01 Instrument: gc01.i
Sample Info: SQ5108-1RE
Purge Volume: 0.2 Operator: AD
Column phase: ZB-Multiresidue-1 Column diameter: 0.53



Data File: 1QJ00042.D
Report Date: 01-Nov-2023 12:34

Katahdin Analytical Services

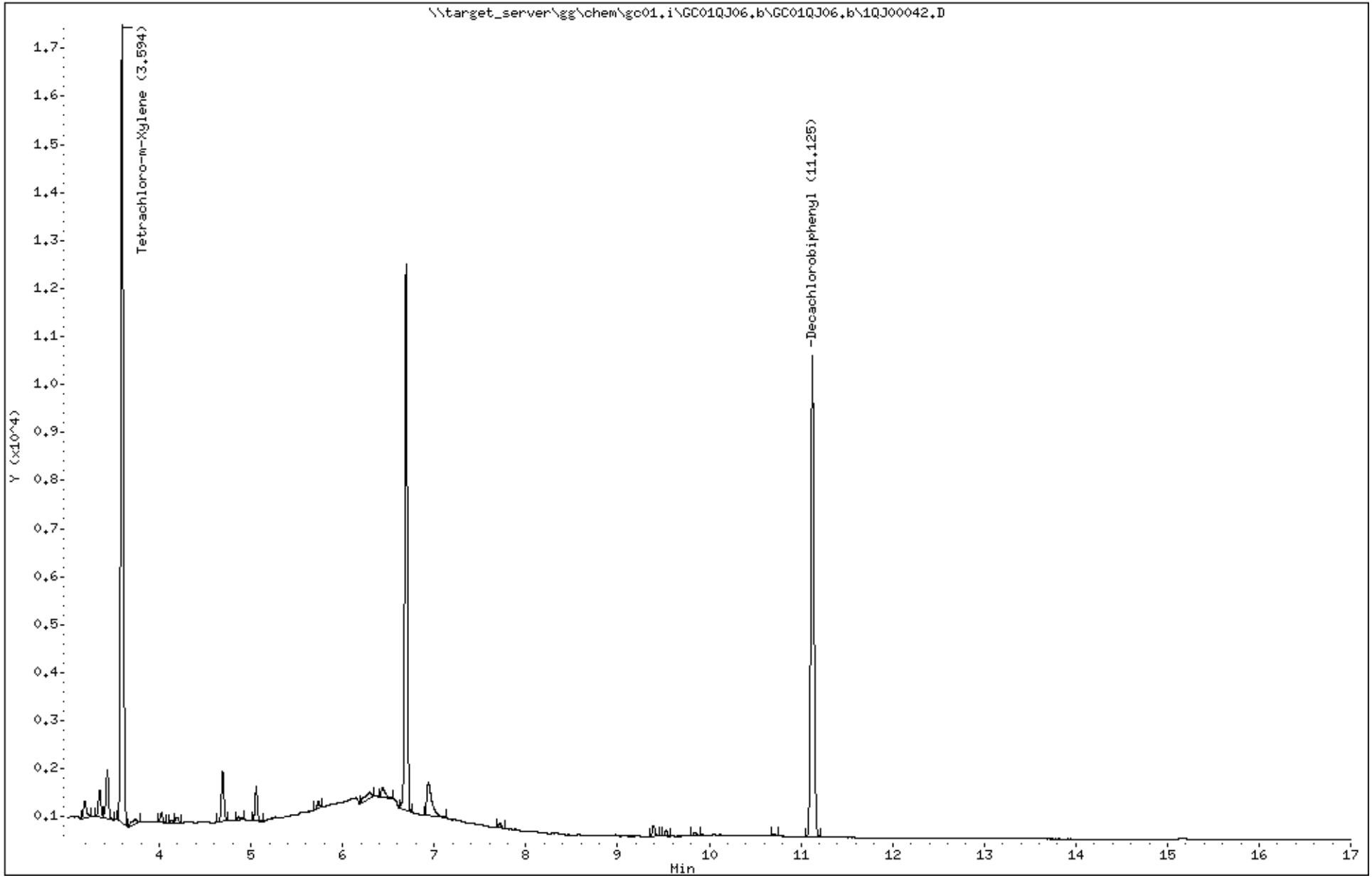
Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00042.D
Lab Smp Id: SQ5108-1RE Client Smp ID: DOW-AQWC-01
Inj Date : 06-OCT-2023 17:29
Operator : AD Inst ID: gc01.i
Smp Info : SQ5108-1RE
Misc Info : WG343657,WG343476,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29 Cal File: 1QI00079.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_8081.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	0.20000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/L)	REVIEW CODE
$ 4 Tetrachloro-m-Xylene	3.593	3.591	0.002	16629	0.06709	3.35	
$ 34 Decachlorobiphenyl	11.125	11.119	0.006	10014	0.07247	3.62	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00042.D
Date : 06-OCT-2023 17:29
Client ID: DOW-AQWC-01 Instrument: gc01.i
Sample Info: SQ5108-1RE
Purge Volume: 0.2 Operator: AD
Column phase: ZB-Multiresidue-2 Column diameter: 0.53



Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5108

Instrument ID: GC01 **Column ID:** A

Lab File IDs : 1QI00075.D 1QI00076.D 1QI00077.D 1QI00074.D 1QI00078.D 1QI00079.D **Calibration Date(s):** 11-SEP-23 20:49 12-SEP-23 14:29

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	0.0050000	0.0100000	0.0250000	0.0500000	0.1000000	0.2500000	Type	b	m1	m2	Result	Limit	
gamma-BHC	48000	46200	45160	47680	60160	54192	AVG		50232		11.53006	20	O
Heptachlor	41000	37500	37200	39420	50220	44960	AVG		41717		12.07135	20	O
Heptachlor Epoxide	42000	38000	36640	37800	45600	40052	AVG		40015		8.32529	20	O
4,4'-DDE	40000	36400	36800	38980	49790	44744	AVG		41119		12.64047	20	O
Endrin	37200	34200	33840	34900	42210	38088	AVG		36740		8.62418	20	O
Endrin	37200	34200	33840	34900	42210	38088	AVG		36740		8.62418	20	O
4,4'-DDD	32000	29900	29480	30980	39310	35800	AVG		32912		11.74347	20	O
4,4'-DDT	35400	31800	30880	33180	41670	38148	AVG		35180		11.71269	20	O
Endrin Aldehyde	26200	23200	21240	21940	27170	24112	AVG		23977		9.76318	20	O
Methoxychlor	21200	18300	16200	16240	19720	17948	AVG		18268		10.72628	20	O
Endrin Ketone	32800	28000	26440	27360	34980	31132	AVG		30119		11.25744	20	O
Tetrachloro-m-Xylene	34600	31500	30160	30520	38460	34904	AVG		33357		9.63951	20	
Decachlorobiphenyl	34800	29300	25920	25760	30790	28500	AVG		29178		11.56925	20	

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5108

Instrument ID: GC01 **Column ID:** B

Lab File IDs : 1QI00075.D 1QI00076.D 1QI00077.D 1QI00074.D 1QI00078.D 1QI00079.D **Calibration Date(s):** 11-SEP-23 20:49 12-SEP-23 14:29

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	0.0050000	0.0100000	0.0250000	0.0500000	0.1000000	0.2500000	Type	b	m1	m2	Result	Limit	
gamma-BHC	403800	363200	337000	333580	386660	320896	AVG		357523		9.15679	20	O
Heptachlor	310800	272100	254920	255920	293360	246620	AVG		272287		9.22641	20	O
Heptachlor Epoxide	311200	278700	251320	250220	283400	233904	AVG		268124		10.51552	20	O
4,4'-DDE	305800	273000	255400	257240	297210	252380	AVG		273505		8.40737	20	O
Endrin	264600	231500	215640	217940	249940	215100	AVG		232453		8.88861	20	O
Endrin	264600	231500	215640	217940	249940	215100	AVG		232453		8.88861	20	O
4,4'-DDD	246000	214800	202080	205980	240990	206332	AVG		219364		8.75850	20	O
4,4'-DDT	249400	221700	207560	211560	249080	217240	AVG		226090		8.21294	20	O
Endrin Aldehyde	171200	148500	135000	135260	160140	137664	AVG		147961		10.13333	20	O
Methoxychlor	126000	109800	101680	101360	123150	110308	AVG		112050		9.34081	20	O
Endrin Ketone	202400	172700	161480	162540	203490	176076	AVG		179781		10.46480	20	O
Tetrachloro-m-Xylene	283000	254000	232320	228920	266490	222536	AVG		247878		9.65040	20	
Decachlorobiphenyl	161000	139700	124960	123500	148950	131008	AVG		138186		10.63936	20	

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5108

Instrument ID: GC01 **Column ID:** A

Lab File IDs : 1QI00075.D 1QI00076.D 1QI00077.D 1QI00074.D 1QI00078.D 1QI00079.D **Calibration Date(s):** 11-SEP-23 20:49 12-SEP-23 14:29

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	0.0050000	0.0100000	0.0250000	0.0500000	0.1000000	0.2500000	Type	b	m1	m2	Result	Limit	
Toxaphene(1)	280	228	212	190	214	215	AVG		223		13.62971	20	O
Toxaphene(2)	370	368	366	354	397	402	AVG		376		5.06219	20	O
Toxaphene(3)	370	368	370	352	410	420	AVG		382		7.05584	20	O
Toxaphene(4)	600	560	546	555	624	632	AVG		586		6.40910	20	O
Toxaphene(5)	730	680	674	657	757	754	AVG		709		6.15762	20	O
Toxaphene(6)	710	680	668	688	806	800	AVG		725		8.50868	20	O
Toxaphene(7)	930	844	824	829	963	943	AVG		889		7.09969	20	O
Toxaphene(8)	620	608	598	619	727	745	AVG		653		9.99299	20	O
Toxaphene(9)	670	608	596	604	710	726	AVG		652		8.81667	20	O

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5108

Instrument ID: GC01 **Column ID:** B

Lab File IDs : 1QI00075.D 1QI00076.D 1QI00077.D 1QI00074.D 1QI00078.D 1QI00079.D **Calibration Date(s):** 11-SEP-23 20:49 12-SEP-23 14:29

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	0.0050000	0.0100000	0.0250000	0.0500000	0.1000000	0.2500000	Type	b	m1	m2	Result	Limit	
Toxaphene(1)	2470	2268	2218	2067	2228	2106	AVG		2226		6.38672	20	O
Toxaphene(2)	2070	1928	1860	1737	1860	1784	AVG		1873		6.25511	20	O
Toxaphene(3)	2790	2540	2418	2317	2488	2373	AVG		2488		6.75716	20	O
Toxaphene(4)	2930	2624	2500	2404	2657	2560	AVG		2612		6.88655	20	O
Toxaphene(5)	3100	2744	2628	2523	2763	2697	AVG		2742		7.13757	20	O
Toxaphene(6)	5330	4732	4570	4489	4991	4598	AVG		4785		6.68258	20	O
Toxaphene(7)	5950	5420	5184	5082	5787	5335	AVG		5460		6.25492	20	O
Toxaphene(8)	3600	3352	3350	3186	3680	3577	AVG		3457		5.49450	20	O
Toxaphene(9)	3440	3204	3156	2999	3440	3345	AVG		3264		5.37323	20	O

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5108

Instrument ID: GC01 **Column ID:** A

Lab File IDs : 1QI00075.D 1QI00076.D 1QI00077.D 1QI00074.D 1QI00078.D 1QI00079.D **Calibration Date(s):** 11-SEP-23 20:49 12-SEP-23 14:29

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	0.0050000	0.0100000	0.0250000	0.0500000	0.1000000	0.2500000	Type	b	m1	m2	Result	Limit	
Technical Chlordane(1)	4360	4050	3936	4202	4973	4132	AVG		4276		8.66101	20	O
Technical Chlordane(2)	5520	5120	4932	5248	6230	5101	AVG		5359		8.76427	20	O
Technical Chlordane(3)	1320	1290	1180	1258	1499	1272	AVG		1303		8.19238	20	O

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5108

Instrument ID: GC01 **Column ID:** B

Lab File IDs : 1QI00075.D 1QI00076.D 1QI00077.D 1QI00074.D 1QI00078.D 1QI00079.D **Calibration Date(s):** 11-SEP-23 20:49 12-SEP-23 14:29

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	0.0050000	0.0100000	0.0250000	0.0500000	0.1000000	0.2500000	Type	b	m1	m2	Result	Limit	
Technical Chlordane(1)	34080	31310	28740	28684	33009	25356	AVG		30196		10.6874	20	O
Technical Chlordane(2)	34180	30920	28312	28302	32880	25252	AVG		29974		11.0537	20	O
Technical Chlordane(3)	9240	8000	7364	7384	8924	7380	AVG		8049		10.4615	20	O

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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Report Date: 20-Sep-2023 12:53

Calibration History

Method : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Start Cal Date: 11-SEP-2023 20:49
End Cal Date : 12-SEP-2023 14:29
Last Cal Level: 5
Last Cal Type : Initial Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
12-SEP-2023 13:11	TC	1QI00075.D
11-SEP-2023 23:25	Tox	1QI00057.D
11-SEP-2023 21:08	cv	1QI00050.D
Cal Level: 2 , Cal Amount: 0.01000		
12-SEP-2023 13:31	TC	1QI00076.D
11-SEP-2023 23:44	Tox	1QI00058.D
11-SEP-2023 21:28	cv	1QI00051.D
Cal Level: 3 , Cal Amount: 0.02500		
12-SEP-2023 13:50	TC	1QI00077.D
12-SEP-2023 00:04	Tox	1QI00059.D
11-SEP-2023 21:47	cv	1QI00052.D
Cal Level: 4 , Cal Amount: 0.05000		
12-SEP-2023 12:52	TC	1QI00074.D
11-SEP-2023 23:05	Tox	1QI00056.D
11-SEP-2023 20:49	cv	1QI00049.D
Cal Level: 5 , Cal Amount: 0.10000		
12-SEP-2023 14:09	TC	1QI00078.D
12-SEP-2023 00:23	Tox	1QI00060.D
11-SEP-2023 22:07	cv	1QI00053.D
Cal Level: 6 , Cal Amount: 0.25000		
12-SEP-2023 14:29	TC	1QI00079.D
12-SEP-2023 00:43	Tox	1QI00061.D
11-SEP-2023 22:26	cv	1QI00054.D

Continuing Calibration
Ccal Level Mode: BY SAMPLE

Report Date: 20-Sep-2023 12:53

Calibration History

Method : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Start Cal Date: 11-SEP-2023 20:49
End Cal Date : 12-SEP-2023 14:29
Last Cal Level: 6
Last Cal Type : Initial Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
12-SEP-2023 13:11	TC	1QI00075.D
11-SEP-2023 23:25	Tox	1QI00057.D
11-SEP-2023 21:08	cv	1QI00050.D
Cal Level: 2 , Cal Amount: 0.01000		
12-SEP-2023 13:31	TC	1QI00076.D
11-SEP-2023 23:44	Tox	1QI00058.D
11-SEP-2023 21:28	cv	1QI00051.D
Cal Level: 3 , Cal Amount: 0.02500		
12-SEP-2023 13:50	TC	1QI00077.D
12-SEP-2023 00:04	Tox	1QI00059.D
11-SEP-2023 21:47	cv	1QI00052.D
Cal Level: 4 , Cal Amount: 0.05000		
12-SEP-2023 12:52	TC	1QI00074.D
11-SEP-2023 23:05	Tox	1QI00056.D
11-SEP-2023 20:49	cv	1QI00049.D
Cal Level: 5 , Cal Amount: 0.10000		
12-SEP-2023 14:09	TC	1QI00078.D
12-SEP-2023 00:23	Tox	1QI00060.D
11-SEP-2023 22:07	cv	1QI00053.D
Cal Level: 6 , Cal Amount: 0.25000		
12-SEP-2023 14:29	TC	1QI00079.D
12-SEP-2023 00:43	Tox	1QI00061.D
11-SEP-2023 22:26	cv	1QI00054.D

Continuing Calibration
Ccal Level Mode: BY SAMPLE

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00055.D
Report Date: 20-Sep-2023 12:38

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa00508
Sample Matrix: LIQUID Fraction: PESTICIDE
Lab Smp Id: INDAB IND 0.05
Level: LOW Operator: AD
Data Type: GC MULTI COMP SampleType: INDSOURCE
SpikeList File: IND.spk Quant Type: ESTD
Sublist File: IND.sub
Method File: \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Misc Info: WG342485,WG342485,WG342485-2,SQ4875-1

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
5 alpha-BHC	0.0500	0.0463	92.66	80-120
6 gamma-BHC	0.0500	0.0470	94.08	80-120
7 beta-BHC	0.0500	0.0451	90.13	80-120
8 delta-BHC	0.0500	0.0497	99.38	80-120
9 Heptachlor	0.0500	0.0482	96.46	80-120
10 Aldrin	0.0500	0.0476	95.12	80-120
13 Heptachlor Epoxide	0.0500	0.0492	98.31	80-120
15 gamma-Chlordane	0.0500	0.0411	82.25	80-120
17 alpha-Chlordane	0.0500	0.0450	89.93	80-120
19 4,4'-DDE	0.0500	0.0485	97.04	80-120
20 Endosulfan I	0.0500	0.0489	97.83	80-120
21 Dieldrin	0.0500	0.0465	92.93	80-120
23 Endrin	0.0500	0.0500	100.00	80-120
24 4,4'-DDD	0.0500	0.0454	90.73	80-120
26 Endosulfan II	0.0500	0.0470	94.08	80-120
27 4,4'-DDT	0.0500	0.0463	92.61	80-120
28 Endrin Aldehyde	0.0500	0.0484	96.76	80-120
29 Methoxychlor	0.0500	0.0436	87.26	80-120
32 Endosulfan sulfate	0.0500	0.0503	100.60	80-120
33 Endrin Ketone	0.0500	0.0508	101.53	80-120

Data File: 1QI00055.D
Report Date: 20-Sep-2023 12:38

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa00508
Sample Matrix: LIQUID Fraction: PESTICIDE
Lab Smp Id: INDAB IND 0.05
Level: LOW Operator: AD
Data Type: GC MULTI COMP SampleType: INDSOURCE
SpikeList File: IND.spk Quant Type: ESTD
Sublist File: IND.sub
Method File: \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Misc Info: WG342485,WG342485,WG342485-2,SQ4875-1

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
5 alpha-BHC	0.0500	0.0464	92.81	80-120
6 gamma-BHC	0.0500	0.0481	96.19	80-120
7 beta-BHC	0.0500	0.0464	92.74	80-120
8 delta-BHC	0.0500	0.0498	99.56	80-120
9 Heptachlor	0.0500	0.0489	97.73	80-120
10 Aldrin	0.0500	0.0488	97.69	80-120
13 Heptachlor Epoxide	0.0500	0.0492	98.32	80-120
15 gamma-Chlordane	0.0500	0.0423	84.53	80-120
17 alpha-Chlordane	0.0500	0.0469	93.81	80-120
19 4,4'-DDE	0.0500	0.0482	96.48	80-120
20 Endosulfan I	0.0500	0.0498	99.70	80-120
21 Dieldrin	0.0500	0.0458	91.63	80-120
23 Endrin	0.0500	0.0496	99.14	80-120
24 4,4'-DDD	0.0500	0.0464	92.72	80-120
26 Endosulfan II	0.0500	0.0475	94.94	80-120
27 4,4'-DDT	0.0500	0.0470	94.01	80-120
28 Endrin Aldehyde	0.0500	0.0485	96.93	80-120
29 Methoxychlor	0.0500	0.0444	88.80	80-120
32 Endosulfan sulfate	0.0500	0.0502	100.48	80-120
33 Endrin Ketone	0.0500	0.0502	100.46	80-120

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00062.D
Report Date: 20-Sep-2023 12:38

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa00508
Sample Matrix: LIQUID Fraction: PESTICIDE
Lab Smp Id: TOX IND 1.0
Level: LOW Operator: AD
Data Type: GC MULTI COMP SampleType: INDSOURCE
SpikeList File: tox_ind.spk Quant Type: ESTD
Sublist File: Tox.sub
Method File: \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Misc Info: WG342486,WG342486,WG342486,SQ4875-2

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
18 Toxaphene	1.00	1.02	102.00	80-120

Data File: 1QI00062.D
Report Date: 20-Sep-2023 12:38

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa00508
Sample Matrix: LIQUID Fraction: PESTICIDE
Lab Smp Id: TOX IND 1.0
Level: LOW Operator: AD
Data Type: GC MULTI COMP SampleType: INDSOURCE
SpikeList File: tox_ind.spk Quant Type: ESTD
Sublist File: Tox.sub
Method File: \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Misc Info: WG342486,WG342486,WG342486,SQ4875-2

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
18 Toxaphene	1.00	1.03	103.00	80-120

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00080.D
Report Date: 20-Sep-2023 12:38

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa00508
Sample Matrix: LIQUID Fraction: PESTICIDE
Lab Smp Id: TC IND 0.5
Level: LOW Operator: AD
Data Type: GC MULTI COMP SampleType: INDSOURCE
SpikeList File: tc_ind.spk Quant Type: ESTD
Sublist File: TC.sub
Method File: \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Misc Info: WG342487,WG342487,WG342487,SQ4875-3

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
14 Technical Chlordan	0.500	0.490	98.00	80-120

Data File: 1QI00080.D
Report Date: 20-Sep-2023 12:38

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa00508
Sample Matrix: LIQUID Fraction: PESTICIDE
Lab Smp Id: TC IND 0.5
Level: LOW Operator: AD
Data Type: GC MULTI COMP SampleType: INDSOURCE
SpikeList File: tc_ind.spk Quant Type: ESTD
Sublist File: TC.sub
Method File: \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Misc Info: WG342487,WG342487,WG342487,SQ4875-3

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
14 Technical Chlordan	0.500	0.454	90.80	80-120

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00049.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

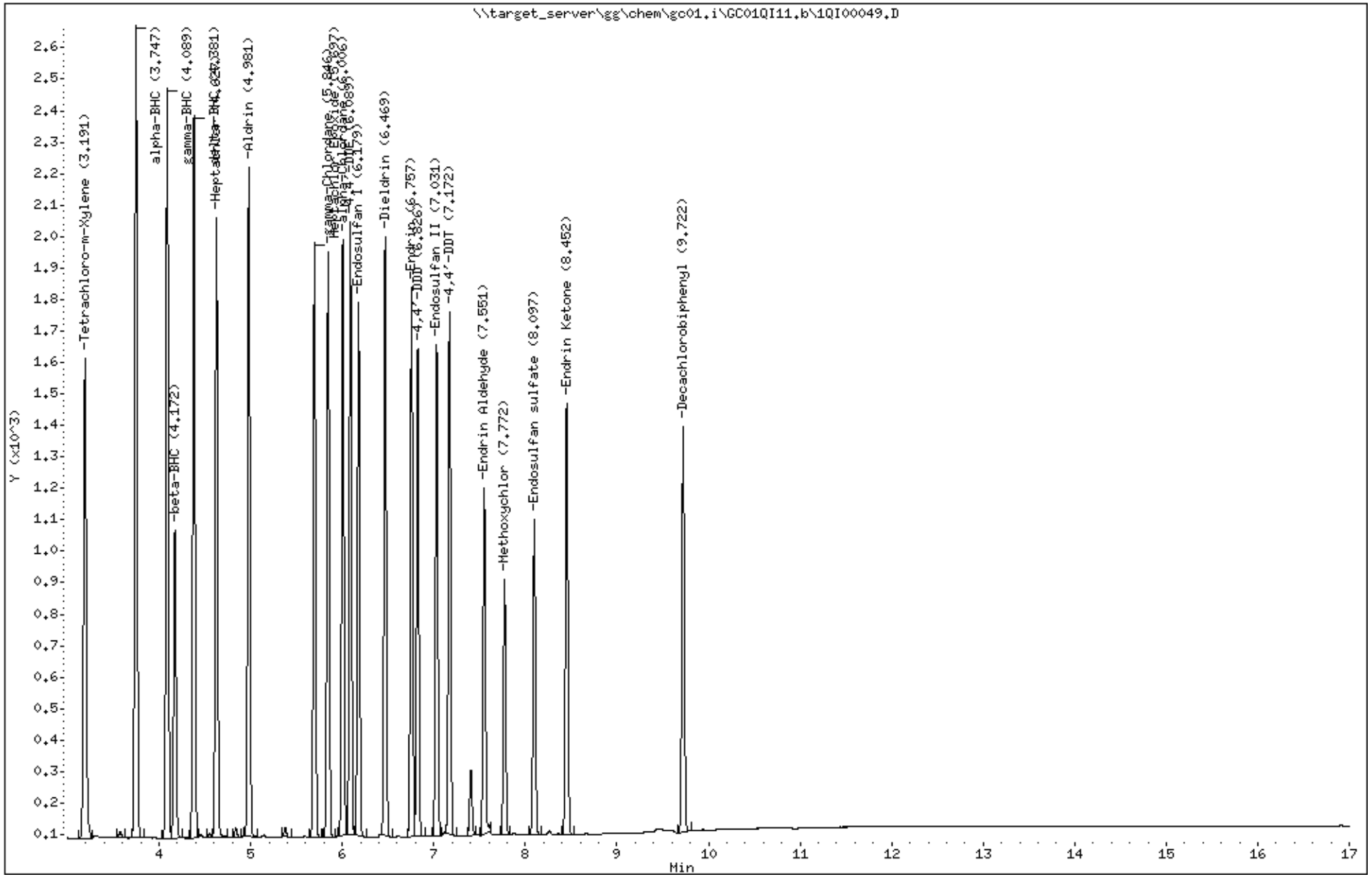
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00049.D
Lab Smp Id: INDAB 0.05
Inj Date : 11-SEP-2023 20:49
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-2
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 20:49   Cal File: 1QI00049.D
Als bottle: 4   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.190	3.191	-0.001	1526	0.05000	0.0500	
	5 alpha-BHC	3.747	3.747	0.000	2581	0.05000	0.0500	
	6 gamma-BHC	4.088	4.089	-0.001	2384	0.05000	0.0500	
	7 beta-BHC	4.172	4.171	0.001	977	0.05000	0.0500	
	8 delta-BHC	4.380	4.381	-0.001	2294	0.05000	0.0500	
	9 Heptachlor	4.627	4.627	0.000	1971	0.05000	0.0500	
	10 Aldrin	4.980	4.981	-0.001	2124	0.05000	0.0500	
	13 Heptachlor Epoxide	5.697	5.697	0.000	1890	0.05000	0.0500	
	15 gamma-Chlordane	5.845	5.846	-0.001	1861	0.05000	0.0500	
	17 alpha-Chlordane	6.005	6.006	-0.001	1892	0.05000	0.0500	
	19 4,4'-DDE	6.088	6.089	-0.001	1949	0.05000	0.0500	
	20 Endosulfan I	6.178	6.179	-0.001	1696	0.05000	0.0500	
	21 Dieldrin	6.468	6.469	-0.001	1903	0.05000	0.0500	
	23 Endrin	6.757	6.757	0.000	1745	0.05000	0.0500	
	24 4,4'-DDD	6.825	6.826	-0.001	1549	0.05000	0.0500	
	26 Endosulfan II	7.030	7.031	-0.001	1563	0.05000	0.0500	
	27 4,4'-DDT	7.172	7.172	0.000	1659	0.05000	0.0500	
	28 Endrin Aldehyde	7.550	7.551	-0.001	1097	0.05000	0.0500	
	29 Methoxychlor	7.772	7.772	0.000	812	0.05000	0.0500	
	32 Endosulfan sulfate	8.097	8.097	0.000	1003	0.05000	0.0500	
	33 Endrin Ketone	8.452	8.452	0.000	1368	0.05000	0.0500	
$	34 Decachlorobiphenyl	9.722	9.722	0.000	1288	0.05000	0.0500	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00049.D
Date : 11-SEP-2023 20:49
Client ID:
Instrument: gc01.i
Sample Info: WG342485-2
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QI00049.D
Report Date: 20-Sep-2023 12:03

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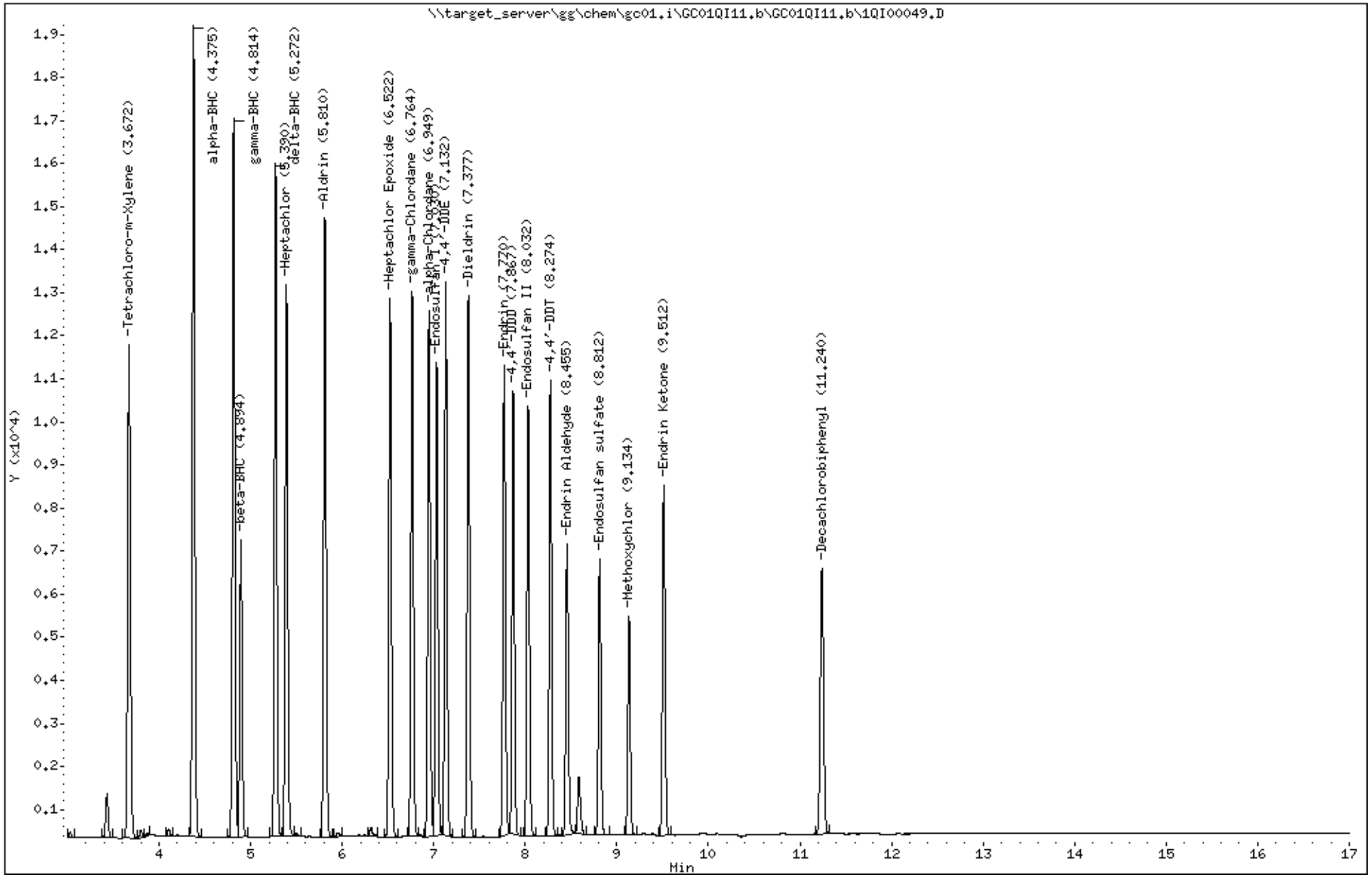
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Inj Date : 11-SEP-2023 20:49
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-2
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 20:49   Cal File: 1QI00049.D
Als bottle: 4   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.672	3.672	0.000	11446	0.05000	0.0500	
	5 alpha-BHC	4.375	4.375	0.000	18834	0.05000	0.0500	
	6 gamma-BHC	4.813	4.814	-0.001	16679	0.05000	0.0500	
	7 beta-BHC	4.893	4.894	-0.001	6897	0.05000	0.0500	
	8 delta-BHC	5.272	5.272	0.000	15631	0.05000	0.0500	
	9 Heptachlor	5.390	5.390	0.000	12796	0.05000	0.0500	
	10 Aldrin	5.810	5.810	0.000	14388	0.05000	0.0500	
	13 Heptachlor Epoxide	6.522	6.522	0.000	12511	0.05000	0.0500	
	15 gamma-Chlordane	6.763	6.764	-0.001	12660	0.05000	0.0500	
	17 alpha-Chlordane	6.948	6.949	-0.001	12209	0.05000	0.0500	
	19 4,4'-DDE	7.132	7.132	0.000	12862	0.05000	0.0500	
	20 Endosulfan I	7.030	7.030	0.000	10996	0.05000	0.0500	
	21 Dieldrin	7.377	7.377	0.000	12557	0.05000	0.0500	
	23 Endrin	7.770	7.770	0.000	10897	0.05000	0.0500	
	24 4,4'-DDD	7.867	7.867	0.000	10299	0.05000	0.0500	
	26 Endosulfan II	8.032	8.032	0.000	9986	0.05000	0.0500	
	27 4,4'-DDT	8.273	8.273	0.000	10578	0.05000	0.0500	
	28 Endrin Aldehyde	8.455	8.455	0.000	6763	0.05000	0.0500	
	29 Methoxychlor	9.133	9.134	-0.001	5068	0.05000	0.0500	
	32 Endosulfan sulfate	8.812	8.812	0.000	6406	0.05000	0.0500	
	33 Endrin Ketone	9.512	9.512	0.000	8127	0.05000	0.0500	
$	34 Decachlorobiphenyl	11.240	11.240	0.000	6175	0.05000	0.0500	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00049.D
Date : 11-SEP-2023 20:49
Client ID:
Instrument: gc01.i
Sample Info: WG342485-2
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00050.D
Report Date: 20-Sep-2023 12:03

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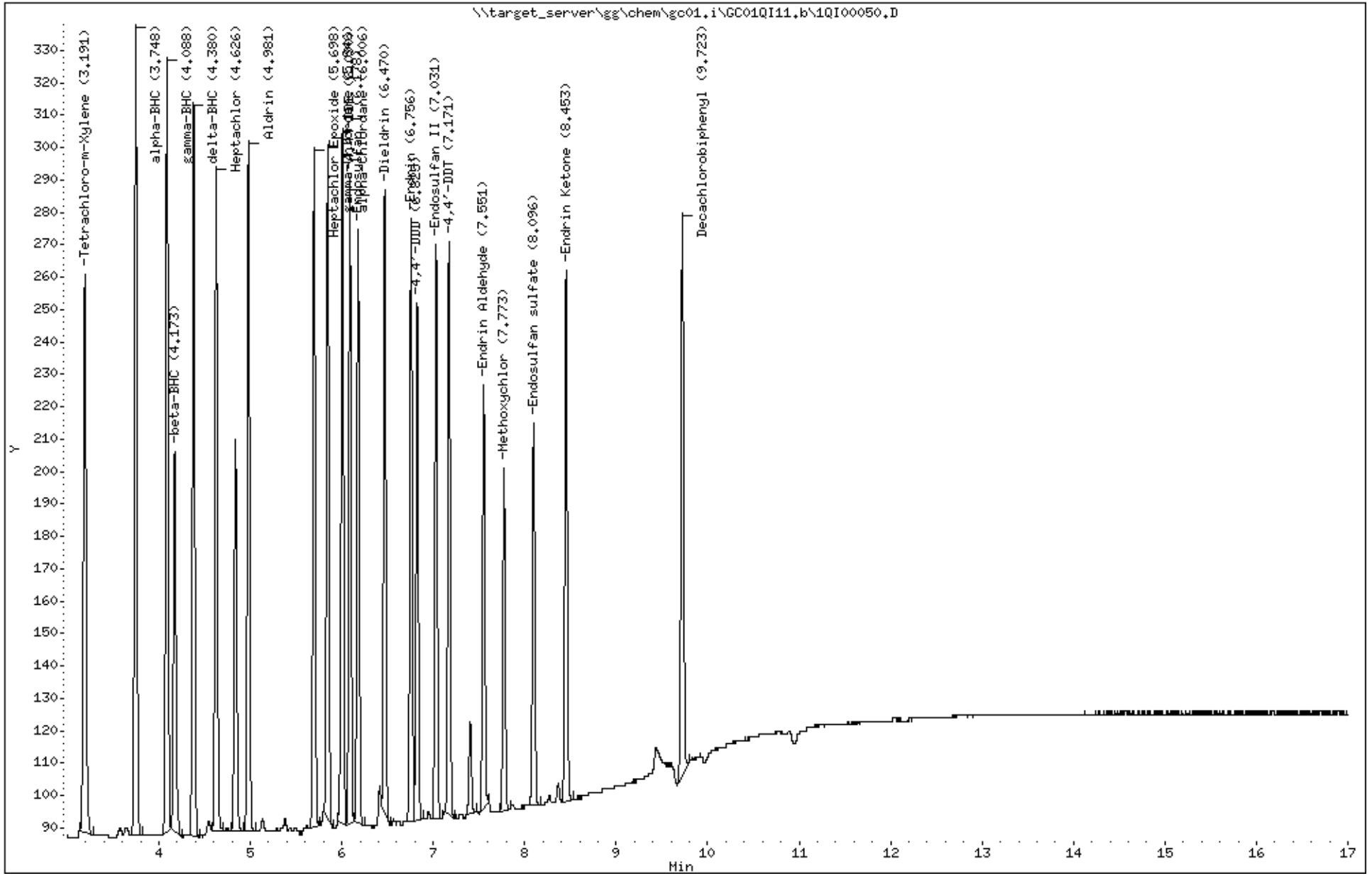
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Inj Date : 11-SEP-2023 21:08
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-3
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 21:08   Cal File: 1QI00050.D
Als bottle: 5   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.191	3.191	0.000	173	0.00500	0.00531	
	5 alpha-BHC	3.747	3.747	0.000	250	0.00500	0.00492	
	6 gamma-BHC	4.087	4.089	-0.002	240	0.00500	0.00502	
	7 beta-BHC	4.172	4.171	0.001	117	0.00500	0.00545	
	8 delta-BHC	4.379	4.381	-0.002	227	0.00500	0.00497	
	9 Heptachlor	4.626	4.627	-0.001	205	0.00500	0.00510	
	10 Aldrin	4.981	4.981	0.000	213	0.00500	0.00501	
	13 Heptachlor Epoxide	5.697	5.697	0.000	210	0.00500	0.00526	
	15 gamma-Chlordane	5.846	5.846	0.000	208	0.00500	0.00528	
	17 alpha-Chlordane	6.006	6.006	0.000	215	0.00500	0.00532	
	19 4,4'-DDE	6.089	6.089	0.000	200	0.00500	0.00506	
	20 Endosulfan I	6.177	6.179	-0.002	184	0.00500	0.00520	
	21 Dieldrin	6.469	6.469	0.000	193	0.00500	0.00504	
	23 Endrin	6.756	6.757	-0.001	186	0.00500	0.00516	
	24 4,4'-DDD	6.824	6.826	-0.002	160	0.00500	0.00508	
	26 Endosulfan II	7.031	7.031	0.000	177	0.00500	0.00531	
	27 4,4'-DDT	7.171	7.172	-0.001	177	0.00500	0.00516	
	28 Endrin Aldehyde	7.551	7.551	0.000	131	0.00500	0.00544	
	29 Methoxychlor	7.772	7.772	0.000	106	0.00500	0.00566	
	32 Endosulfan sulfate	8.096	8.097	-0.001	118	0.00500	0.00540	
	33 Endrin Ketone	8.452	8.452	0.000	164	0.00500	0.00545	
$	34 Decachlorobiphenyl	9.722	9.722	0.000	174	0.00500	0.00575	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00050.D
Date : 11-SEP-2023 21:08
Client ID:
Instrument: gc01.i
Sample Info: WG342485-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QI00050.D
Report Date: 20-Sep-2023 12:03

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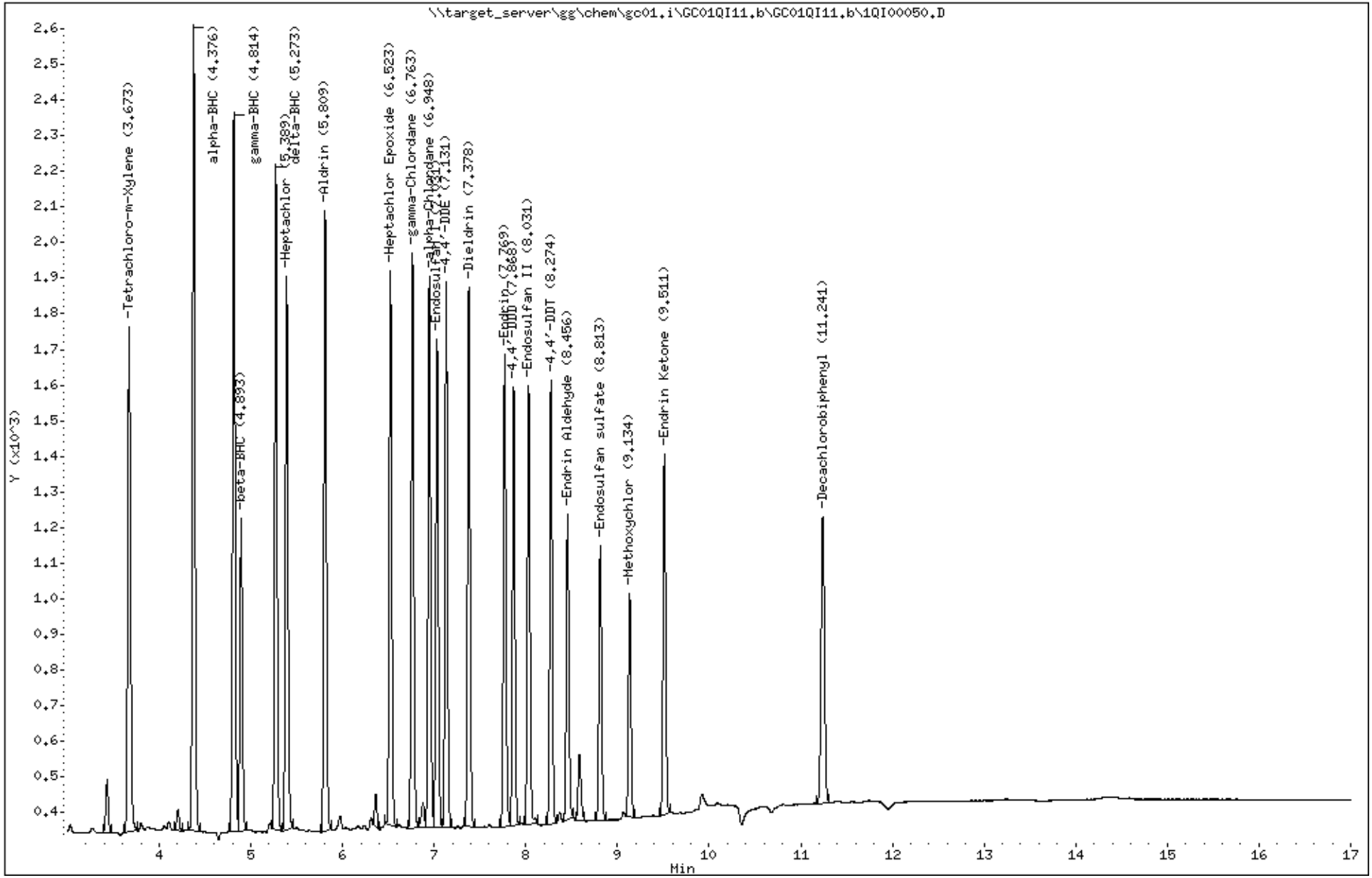
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Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-3
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 21:08   Cal File: 1QI00050.D
Als bottle: 5   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.672	3.672	0.000	1415	0.00500	0.00553	
	5 alpha-BHC	4.376	4.375	0.001	2261	0.00500	0.00546	
	6 gamma-BHC	4.814	4.814	0.000	2019	0.00500	0.00548	
	7 beta-BHC	4.892	4.894	-0.002	876	0.00500	0.00559	
	8 delta-BHC	5.272	5.272	0.000	1868	0.00500	0.00544	
	9 Heptachlor	5.389	5.390	-0.001	1554	0.00500	0.00548	
	10 Aldrin	5.809	5.810	-0.001	1739	0.00500	0.00547	
	13 Heptachlor Epoxide	6.522	6.522	0.000	1556	0.00500	0.00554	
	15 gamma-Chlordane	6.762	6.764	-0.002	1613	0.00500	0.00560	
	17 alpha-Chlordane	6.947	6.949	-0.002	1547	0.00500	0.00559	
	19 4,4'-DDE	7.131	7.132	-0.001	1529	0.00500	0.00543	
	20 Endosulfan I	7.031	7.030	0.001	1370	0.00500	0.00555	
	21 Dieldrin	7.377	7.377	0.000	1515	0.00500	0.00547	
	23 Endrin	7.769	7.770	-0.001	1323	0.00500	0.00548	
	24 4,4'-DDD	7.867	7.867	0.000	1230	0.00500	0.00544	
	26 Endosulfan II	8.031	8.032	-0.001	1231	0.00500	0.00552	
	27 4,4'-DDT	8.274	8.273	0.001	1247	0.00500	0.00541	
	28 Endrin Aldehyde	8.456	8.455	0.001	856	0.00500	0.00559	
	29 Methoxychlor	9.134	9.134	0.000	630	0.00500	0.00554	
	32 Endosulfan sulfate	8.812	8.812	0.000	770	0.00500	0.00546	
	33 Endrin Ketone	9.511	9.512	-0.001	1012	0.00500	0.00555	
$	34 Decachlorobiphenyl	11.241	11.240	0.001	805	0.00500	0.00566	

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Date : 11-SEP-2023 21:08
Client ID:
Instrument: gc01.i
Sample Info: WG342485-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00051.D
Report Date: 20-Sep-2023 12:03

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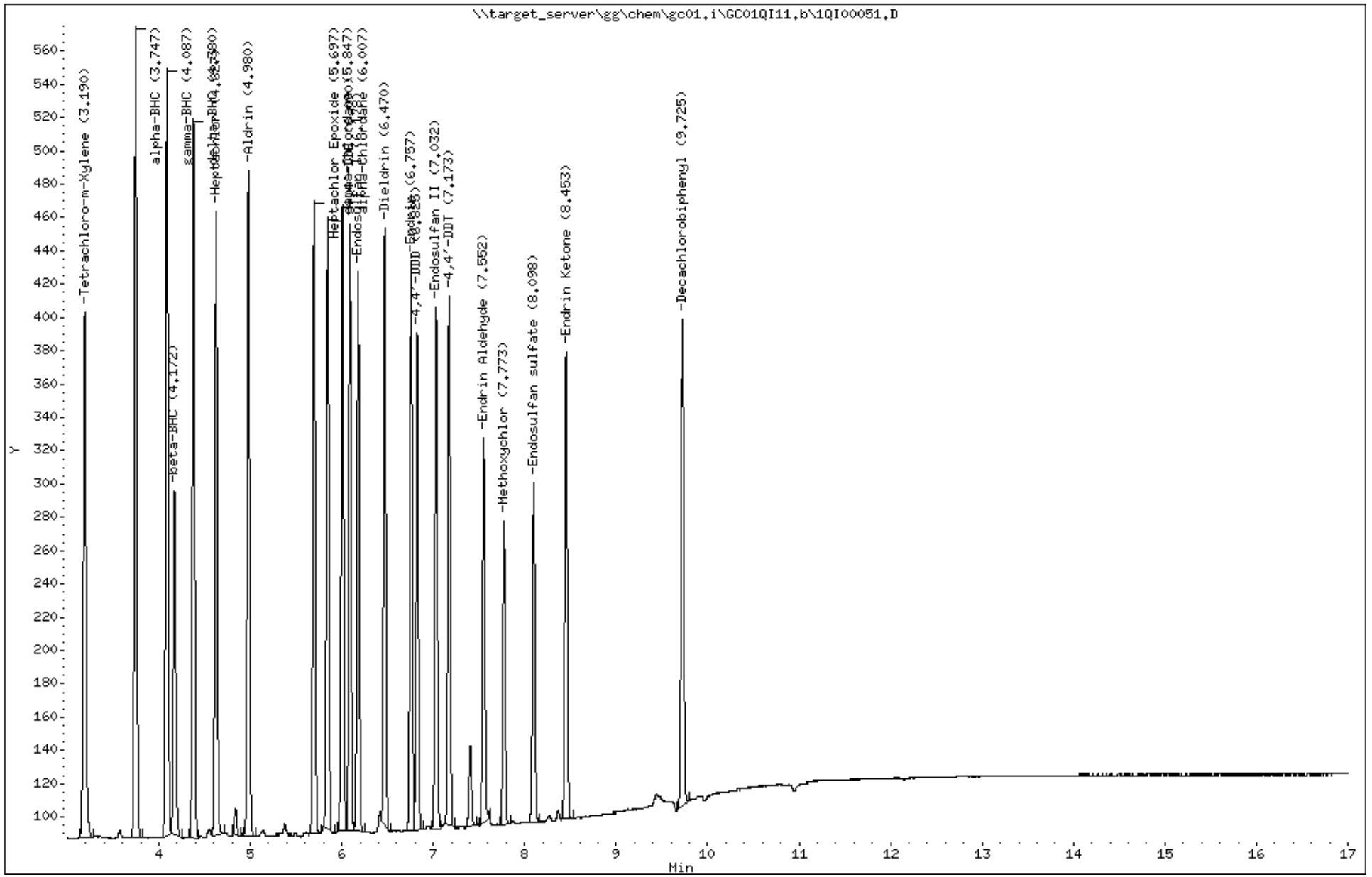
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Inj Date : 11-SEP-2023 21:28
Operator : AD   Inst ID: gc01.i
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Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 21:28   Cal File: 1QI00051.D
Als bottle: 6   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.189	3.191	-0.002	315	0.01000	0.00978	
	5 alpha-BHC	3.746	3.747	-0.001	487	0.01000	0.00972	
	6 gamma-BHC	4.086	4.089	-0.003	462	0.01000	0.00977	
	7 beta-BHC	4.171	4.171	0.000	207	0.01000	0.00976	
	8 delta-BHC	4.379	4.381	-0.002	432	0.01000	0.00964	
	9 Heptachlor	4.626	4.627	-0.001	375	0.01000	0.00954	
	10 Aldrin	4.979	4.981	-0.002	399	0.01000	0.00958	
	13 Heptachlor Epoxide	5.696	5.697	-0.001	380	0.01000	0.00968	
	15 gamma-Chlordane	5.846	5.846	0.000	368	0.01000	0.00955	
	17 alpha-Chlordane	6.006	6.006	0.000	376	0.01000	0.00952	
	19 4,4'-DDE	6.089	6.089	0.000	364	0.01000	0.00946	
	20 Endosulfan I	6.178	6.179	-0.001	337	0.01000	0.00968	
	21 Dieldrin	6.469	6.469	0.000	359	0.01000	0.00957	
	23 Endrin	6.756	6.757	-0.001	342	0.01000	0.00965	
	24 4,4'-DDD	6.824	6.826	-0.002	299	0.01000	0.00966	
	26 Endosulfan II	7.031	7.031	0.000	313	0.01000	0.00958	
	27 4,4'-DDT	7.173	7.172	0.001	318	0.01000	0.00950	
	28 Endrin Aldehyde	7.551	7.551	0.000	232	0.01000	0.00976	
	29 Methoxychlor	7.773	7.772	0.001	183	0.01000	0.00985	
	32 Endosulfan sulfate	8.098	8.097	0.001	204	0.01000	0.00955	
	33 Endrin Ketone	8.453	8.452	0.001	280	0.01000	0.00953	
$	34 Decachlorobiphenyl	9.724	9.722	0.002	293	0.01000	0.00978	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00051.D
Date : 11-SEP-2023 21:28
Client ID:
Instrument: gc01.i
Sample Info: WG342485-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QI00051.D
Report Date: 20-Sep-2023 12:03

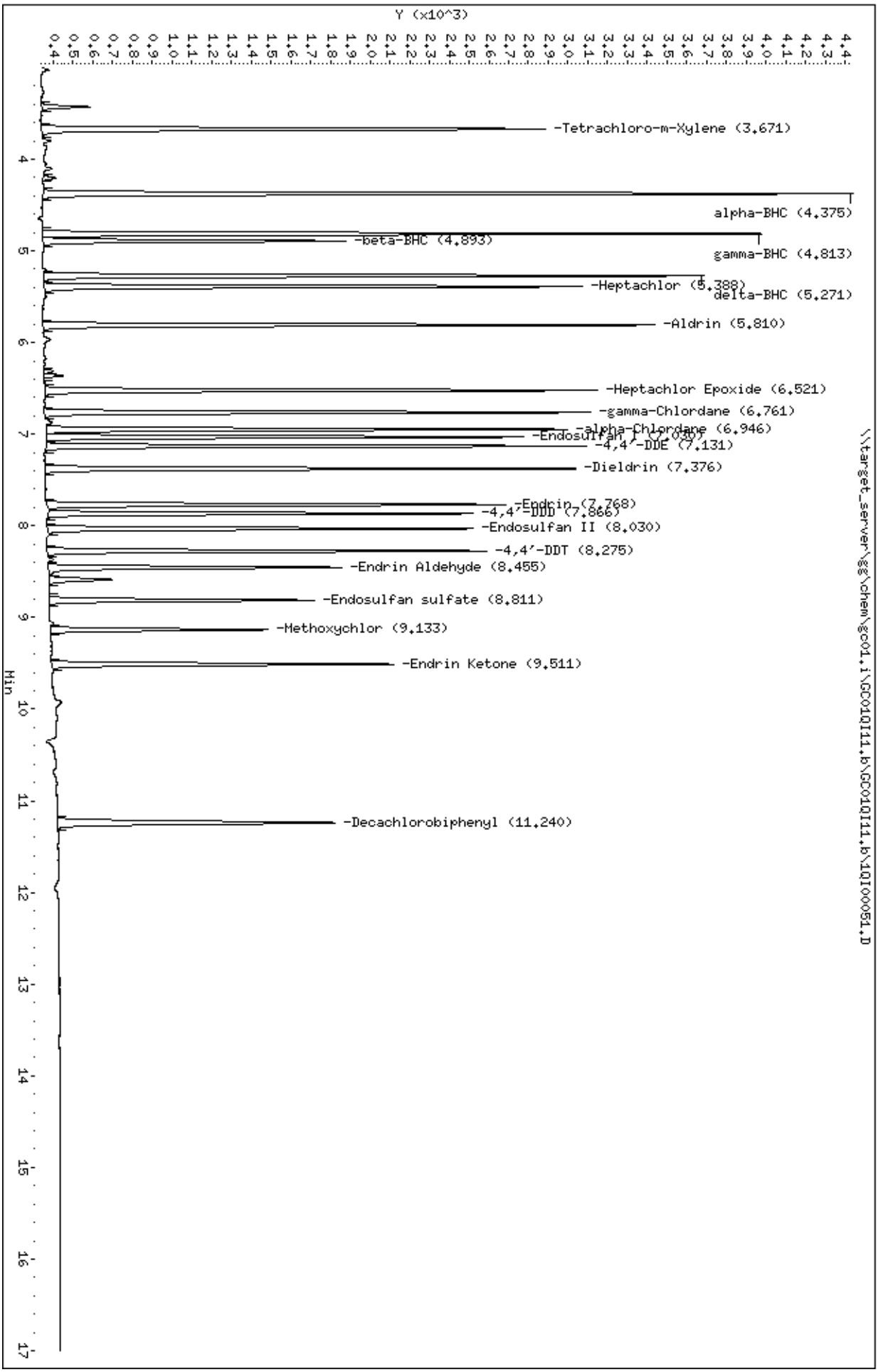
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Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-4
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 21:28   Cal File: 1QI00051.D
Als bottle: 6   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.671	3.672	-0.001	2540	0.01000	0.00995	
	5 alpha-BHC	4.374	4.375	-0.001	4089	0.01000	0.00991	
	6 gamma-BHC	4.813	4.814	-0.001	3632	0.01000	0.00990	
	7 beta-BHC	4.893	4.894	-0.001	1528	0.01000	0.00984	
	8 delta-BHC	5.271	5.272	-0.001	3333	0.01000	0.00981	
	9 Heptachlor	5.388	5.390	-0.002	2721	0.01000	0.00973	
	10 Aldrin	5.809	5.810	-0.001	3090	0.01000	0.00981	
	13 Heptachlor Epoxide	6.521	6.522	-0.001	2787	0.01000	0.00995	
	15 gamma-Chlordane	6.761	6.764	-0.003	2754	0.01000	0.00971	
	17 alpha-Chlordane	6.946	6.949	-0.003	2635	0.01000	0.00967	
	19 4,4'-DDE	7.131	7.132	-0.001	2730	0.01000	0.00980	
	20 Endosulfan I	7.029	7.030	-0.001	2414	0.01000	0.00985	
	21 Dieldrin	7.376	7.377	-0.001	2680	0.01000	0.00978	
	23 Endrin	7.768	7.770	-0.002	2315	0.01000	0.00973	
	24 4,4'-DDD	7.866	7.867	-0.001	2148	0.01000	0.00966	
	26 Endosulfan II	8.029	8.032	-0.003	2149	0.01000	0.00976	
	27 4,4'-DDT	8.274	8.273	0.001	2217	0.01000	0.00974	
	28 Endrin Aldehyde	8.454	8.455	-0.001	1485	0.01000	0.00979	
	29 Methoxychlor	9.133	9.134	-0.001	1098	0.01000	0.00977	
	32 Endosulfan sulfate	8.811	8.812	-0.001	1341	0.01000	0.00966	
	33 Endrin Ketone	9.511	9.512	-0.001	1727	0.01000	0.00964	
$	34 Decachlorobiphenyl	11.239	11.240	-0.001	1397	0.01000	0.00988	


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Client ID:
Sample Info: WG342485-4
Purge Volume: 1.0
Column phase: ZB-Multiresidue-2
Instrument: gc01.i
Operator: AD
Column diameter: 0.53
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Y (x10^3)
Min
-Tetrachloro-m-Xylene (3.671)
alpha-BHC (4.375)
-beta-BHC (4.893)
gamma-BHC (4.813)
-Heptachlor (5.388)
delta-BHC (5.271)
-Aldrin (5.810)
-Heptachlor Epoxide (6.521)
-gamma-Chlordane (6.761)
-alpha-Chlordane (6.946)
-Endosulfan I (7.050)
-4,4'-DDE (7.131)
-Dieldrin (7.376)
-Endrin (7.768)
-4,4'-DDD (7.866)
-Endosulfan II (8.030)
-4,4'-DDT (8.275)
-Endrin Aldehyde (8.455)
-Endosulfan sulfate (8.811)
-Methoxychlor (9.133)
-Endrin Ketone (9.511)
-Decachlorobiphenyl (11.240)

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00052.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

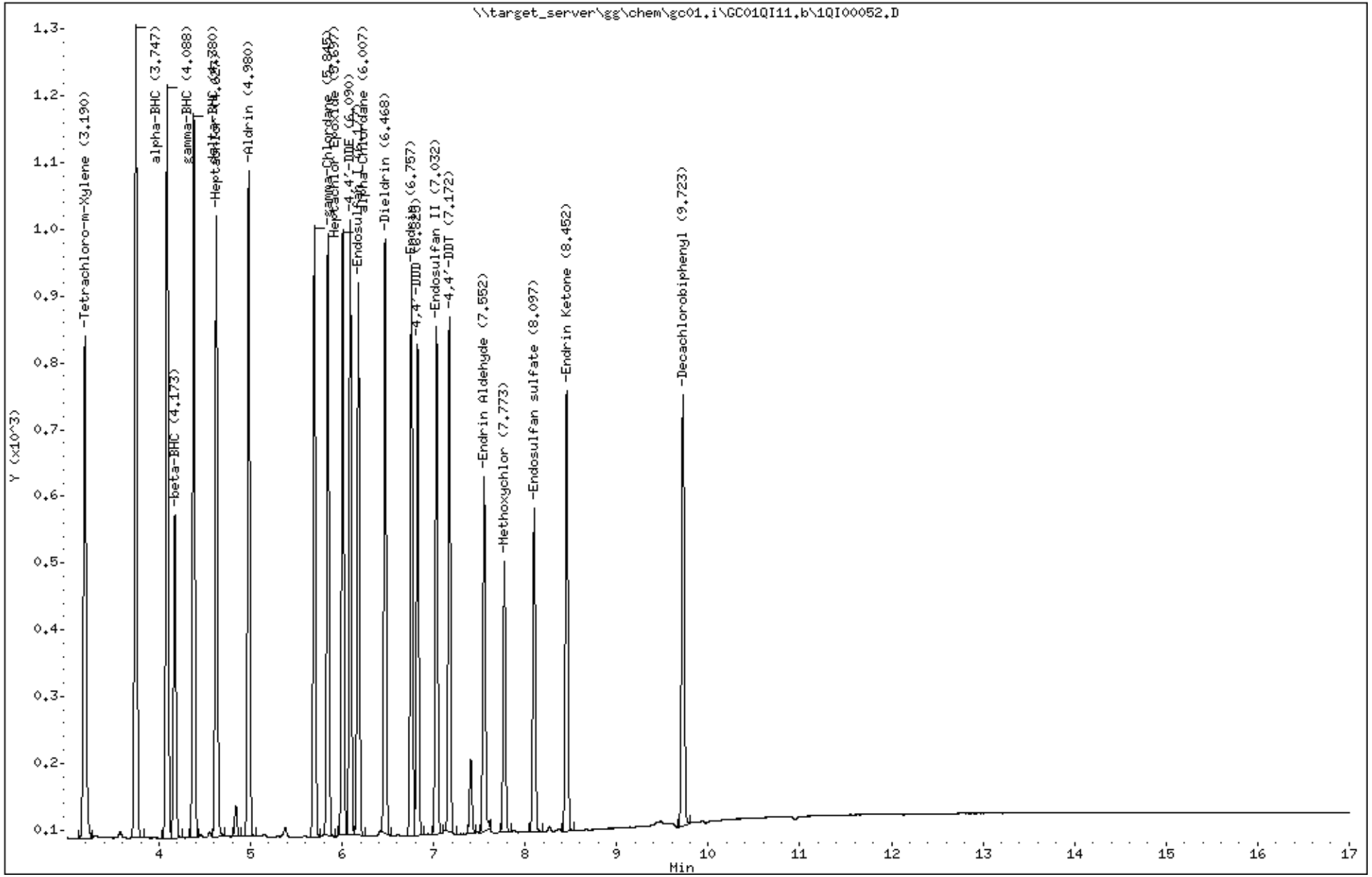
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Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-5
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 21:47   Cal File: 1QI00052.D
Als bottle: 7   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.189	3.191	-0.002	754	0.02500	0.0238	
	5 alpha-BHC	3.746	3.747	-0.001	1218	0.02500	0.0245	
	6 gamma-BHC	4.088	4.089	-0.001	1129	0.02500	0.0241	
	7 beta-BHC	4.173	4.171	0.002	484	0.02500	0.0233	
	8 delta-BHC	4.379	4.381	-0.002	1084	0.02500	0.0244	
	9 Heptachlor	4.626	4.627	-0.001	930	0.02500	0.0240	
	10 Aldrin	4.979	4.981	-0.002	996	0.02500	0.0242	
	13 Heptachlor Epoxide	5.696	5.697	-0.001	916	0.02500	0.0237	
	15 gamma-Chlordane	5.844	5.846	-0.002	902	0.02500	0.0238	
	17 alpha-Chlordane	6.006	6.006	0.000	906	0.02500	0.0234	
	19 4,4'-DDE	6.089	6.089	0.000	920	0.02500	0.0242	
	20 Endosulfan I	6.176	6.179	-0.003	829	0.02500	0.0241	
	21 Dieldrin	6.468	6.469	-0.001	891	0.02500	0.0240	
	23 Endrin	6.756	6.757	-0.001	846	0.02500	0.0241	
	24 4,4'-DDD	6.824	6.826	-0.002	737	0.02500	0.0241	
	26 Endosulfan II	7.031	7.031	0.000	761	0.02500	0.0237	
	27 4,4'-DDT	7.171	7.172	-0.001	772	0.02500	0.0235	
	28 Endrin Aldehyde	7.551	7.551	0.000	531	0.02500	0.0229	
	29 Methoxychlor	7.773	7.772	0.001	405	0.02500	0.0225	
	32 Endosulfan sulfate	8.096	8.097	-0.001	484	0.02500	0.0232	
	33 Endrin Ketone	8.451	8.452	-0.001	661	0.02500	0.0231	
$	34 Decachlorobiphenyl	9.723	9.722	0.001	648	0.02500	0.0224	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00052.D
Date : 11-SEP-2023 21:47
Client ID:
Instrument: gc01.i
Sample Info: WG342485-5
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QI00052.D
Report Date: 20-Sep-2023 12:04

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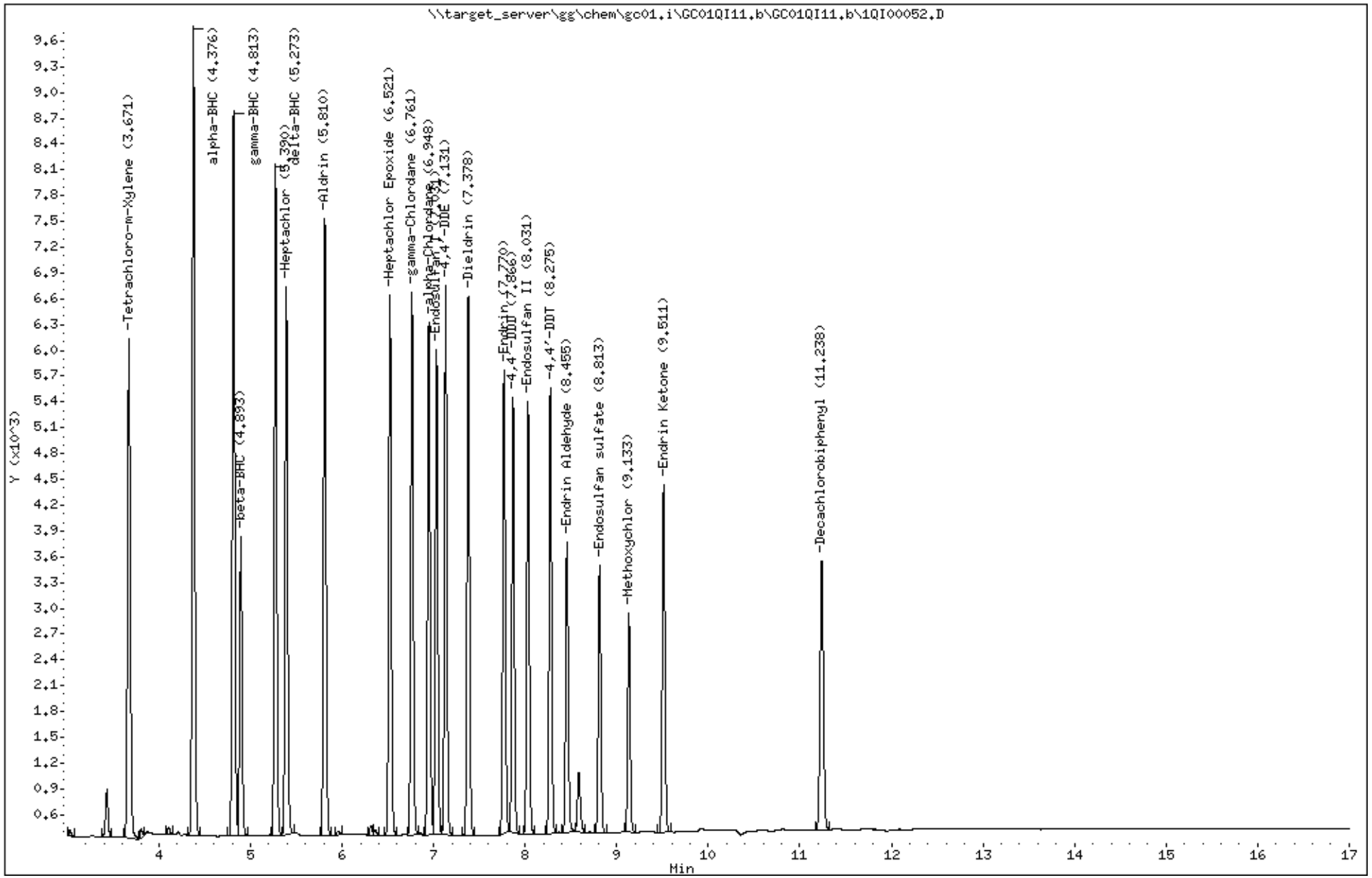
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Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-5
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 21:47   Cal File: 1QI00052.D
Als bottle: 7   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)	REVIEW CODE
$ 4	Tetrachloro-m-Xylene	3.671	3.672	-0.001	5808	0.02500	0.0233	
5	alpha-BHC	4.376	4.375	0.001	9411	0.02500	0.0233	
6	gamma-BHC	4.813	4.814	-0.001	8425	0.02500	0.0234	
7	beta-BHC	4.893	4.894	-0.001	3475	0.02500	0.0230	
8	delta-BHC	5.273	5.272	0.001	7813	0.02500	0.0235	
9	Heptachlor	5.389	5.390	-0.001	6373	0.02500	0.0233	
10	Aldrin	5.809	5.810	-0.001	7184	0.02500	0.0233	
13	Heptachlor Epoxide	6.521	6.522	-0.001	6283	0.02500	0.0230	
15	gamma-Chlordane	6.761	6.764	-0.003	6310	0.02500	0.0229	
17	alpha-Chlordane	6.948	6.949	-0.001	5958	0.02500	0.0226	
19	4,4'-DDE	7.131	7.132	-0.001	6385	0.02500	0.0234	
20	Endosulfan I	7.031	7.030	0.001	5635	0.02500	0.0235	
21	Dieldrin	7.378	7.377	0.001	6269	0.02500	0.0234	
23	Endrin	7.769	7.770	-0.001	5391	0.02500	0.0232	
24	4,4'-DDD	7.866	7.867	-0.001	5052	0.02500	0.0232	
26	Endosulfan II	8.031	8.032	-0.001	5022	0.02500	0.0233	
27	4,4'-DDT	8.274	8.273	0.001	5189	0.02500	0.0233	
28	Endrin Aldehyde	8.454	8.455	-0.001	3375	0.02500	0.0229	
29	Methoxychlor	9.133	9.134	-0.001	2542	0.02500	0.0232	
32	Endosulfan sulfate	8.813	8.812	0.001	3115	0.02500	0.0230	
33	Endrin Ketone	9.511	9.512	-0.001	4037	0.02500	0.0231	
$ 34	Decachlorobiphenyl	11.238	11.240	-0.002	3124	0.02500	0.0228	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00052.D
Date : 11-SEP-2023 21:47
Client ID:
Instrument: gc01.i
Sample Info: WG342485-5
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Report Date: 20-Sep-2023 12:03

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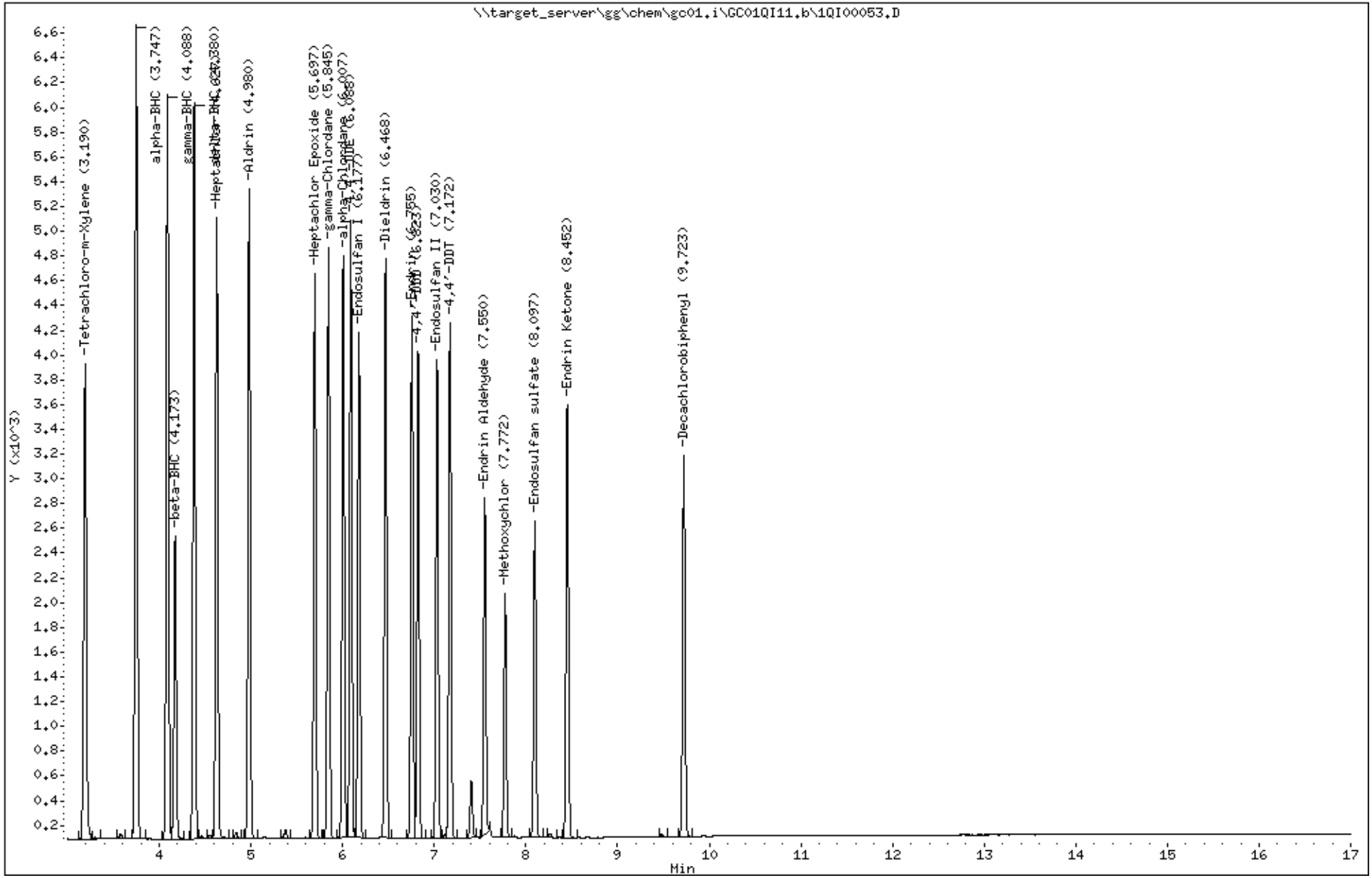
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Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-6
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 22:07   Cal File: 1QI00053.D
Als bottle: 8   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.190	3.191	-0.001	3846	0.10000	0.116	
	5 alpha-BHC	3.746	3.747	-0.001	6577	0.10000	0.124	
	6 gamma-BHC	4.088	4.089	-0.001	6016	0.10000	0.122	
	7 beta-BHC	4.173	4.171	0.002	2446	0.10000	0.114	
	8 delta-BHC	4.380	4.381	-0.001	5953	0.10000	0.125	
	9 Heptachlor	4.626	4.627	-0.001	5022	0.10000	0.122	
	10 Aldrin	4.980	4.981	-0.001	5247	0.10000	0.121	
	13 Heptachlor Epoxide	5.696	5.697	-0.001	4560	0.10000	0.114	
	15 gamma-Chlordane	5.845	5.846	-0.001	4769	0.10000	0.120	
	17 alpha-Chlordane	6.006	6.006	0.000	4696	0.10000	0.116	
	19 4,4'-DDE	6.088	6.089	-0.001	4979	0.10000	0.123	
	20 Endosulfan I	6.176	6.179	-0.003	4079	0.10000	0.114	
	21 Dieldrin	6.468	6.469	-0.001	4682	0.10000	0.120	
	23 Endrin	6.755	6.757	-0.002	4221	0.10000	0.116	
	24 4,4'-DDD	6.823	6.826	-0.003	3931	0.10000	0.122	
	26 Endosulfan II	7.030	7.031	-0.001	3859	0.10000	0.116	
	27 4,4'-DDT	7.171	7.172	-0.001	4167	0.10000	0.120	
	28 Endrin Aldehyde	7.550	7.551	-0.001	2717	0.10000	0.113	
	29 Methoxychlor	7.771	7.772	-0.001	1972	0.10000	0.108	
	32 Endosulfan sulfate	8.096	8.097	-0.001	2561	0.10000	0.117	
	33 Endrin Ketone	8.451	8.452	-0.001	3498	0.10000	0.117	
$	34 Decachlorobiphenyl	9.723	9.722	0.001	3079	0.10000	0.105	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00053.D
Date : 11-SEP-2023 22:07
Client ID:
Instrument: gc01.i
Sample Info: WG342485-6
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QI00053.D
Report Date: 20-Sep-2023 12:04

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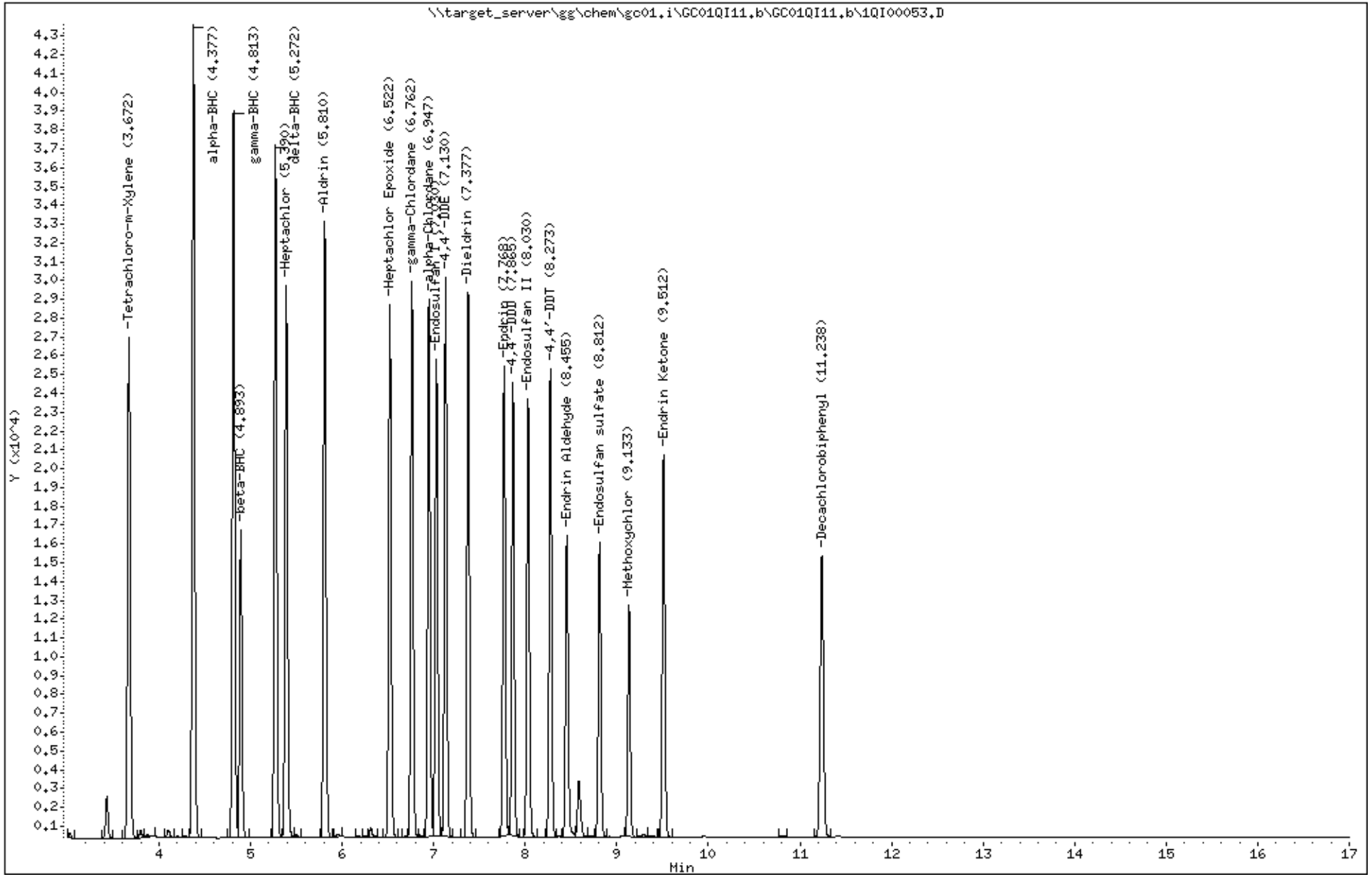
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Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-6
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 22:07   Cal File: 1QI00053.D
Als bottle: 8   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$ 4	Tetrachloro-m-Xylene	3.671	3.672	-0.001	26649	0.10000	0.105	
5	alpha-BHC	4.376	4.375	0.001	43208	0.10000	0.106	
6	gamma-BHC	4.813	4.814	-0.001	38666	0.10000	0.106	
7	beta-BHC	4.893	4.894	-0.001	16340	0.10000	0.106	
8	delta-BHC	5.271	5.272	-0.001	36838	0.10000	0.108	
9	Heptachlor	5.389	5.390	-0.001	29336	0.10000	0.106	
10	Aldrin	5.809	5.810	-0.001	32732	0.10000	0.105	
13	Heptachlor Epoxide	6.521	6.522	-0.001	28340	0.10000	0.103	
15	gamma-Chlordane	6.761	6.764	-0.003	29555	0.10000	0.106	
17	alpha-Chlordane	6.946	6.949	-0.003	28597	0.10000	0.106	
19	4,4'-DDE	7.129	7.132	-0.003	29721	0.10000	0.107	
20	Endosulfan I	7.029	7.030	-0.001	25392	0.10000	0.104	
21	Dieldrin	7.376	7.377	-0.001	28997	0.10000	0.106	
23	Endrin	7.768	7.770	-0.002	24994	0.10000	0.106	
24	4,4'-DDD	7.864	7.867	-0.003	24099	0.10000	0.108	
26	Endosulfan II	8.029	8.032	-0.003	23262	0.10000	0.106	
27	4,4'-DDT	8.273	8.273	0.000	24908	0.10000	0.109	
28	Endrin Aldehyde	8.454	8.455	-0.001	16014	0.10000	0.107	
29	Methoxychlor	9.133	9.134	-0.001	12315	0.10000	0.110	
32	Endosulfan sulfate	8.811	8.812	-0.001	15653	0.10000	0.112	
33	Endrin Ketone	9.511	9.512	-0.001	20349	0.10000	0.113	
$ 34	Decachlorobiphenyl	11.238	11.240	-0.002	14895	0.10000	0.107	

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Client ID:
Instrument: gc01.i
Sample Info: WG342485-6
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Report Date: 20-Sep-2023 12:03

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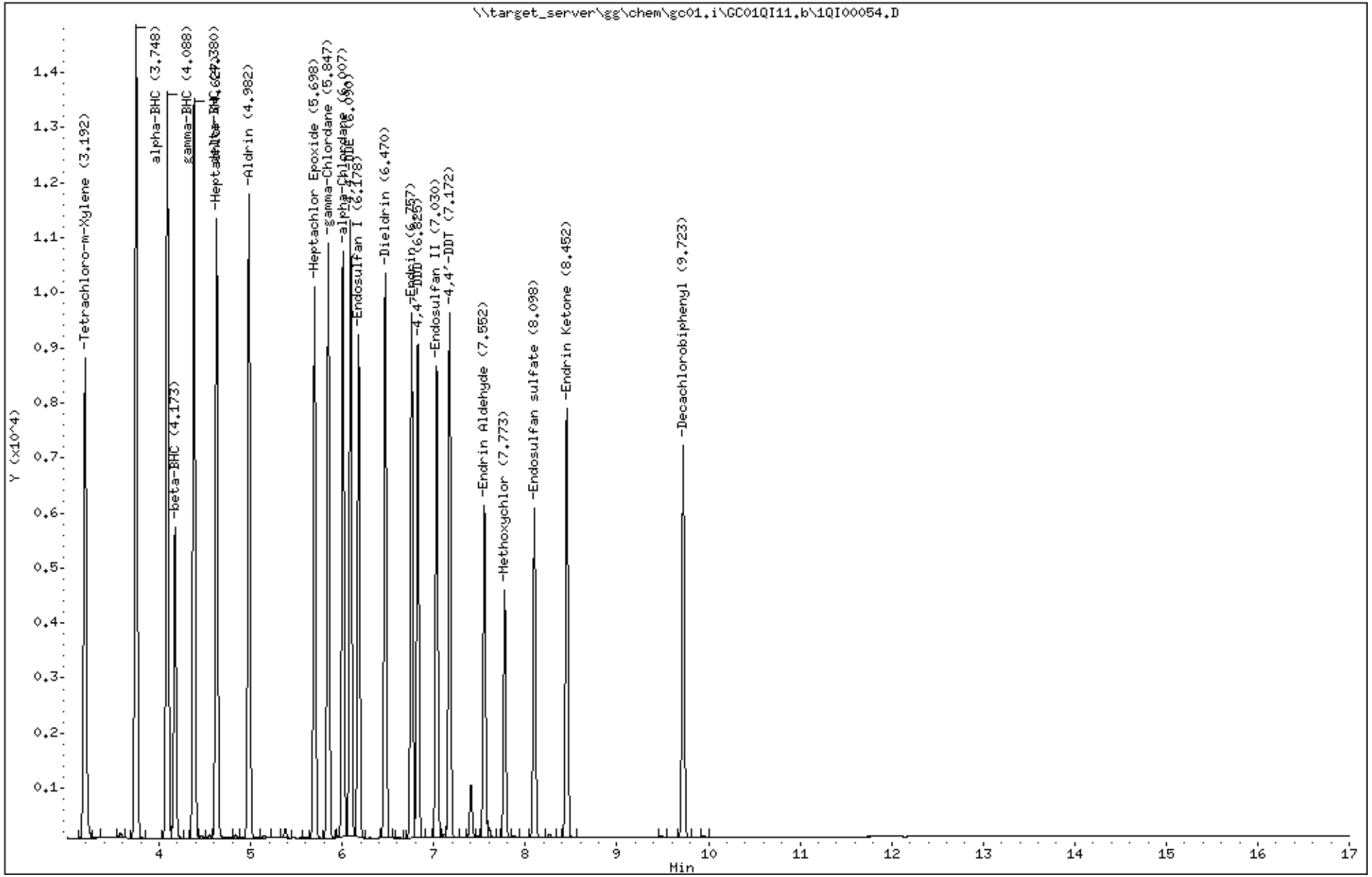
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Misc Info : WG342485,WG342485,WG342485-2
Comment   :
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Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 22:26   Cal File: 1QI00054.D
Als bottle: 9   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.191	3.191	0.000	8726	0.25000	0.262(A)	
	5 alpha-BHC	3.748	3.747	0.001	14770	0.25000	0.274(A)	
	6 gamma-BHC	4.088	4.089	-0.001	13548	0.25000	0.270(A)	
	7 beta-BHC	4.173	4.171	0.002	5656	0.25000	0.261(A)	
	8 delta-BHC	4.380	4.381	-0.001	13436	0.25000	0.277(A)	
	9 Heptachlor	4.626	4.627	-0.001	11240	0.25000	0.269(A)	
	10 Aldrin	4.981	4.981	0.000	11688	0.25000	0.266(A)	
	13 Heptachlor Epoxide	5.698	5.697	0.001	10013	0.25000	0.250(A)	
	15 gamma-Chlordane	5.846	5.846	0.000	10808	0.25000	0.267(A)	
	17 alpha-Chlordane	6.006	6.006	0.000	10636	0.25000	0.261(A)	
	19 4,4'-DDE	6.090	6.089	0.001	11186	0.25000	0.272(A)	
	20 Endosulfan I	6.178	6.179	-0.001	9133	0.25000	0.255(A)	
	21 Dieldrin	6.470	6.469	0.001	10258	0.25000	0.261(A)	
	23 Endrin	6.756	6.757	-0.001	9522	0.25000	0.259(A)	
	24 4,4'-DDD	6.825	6.826	-0.001	8950	0.25000	0.272(A)	
	26 Endosulfan II	7.030	7.031	-0.001	8571	0.25000	0.256(A)	
	27 4,4'-DDT	7.171	7.172	-0.001	9537	0.25000	0.271(A)	
	28 Endrin Aldehyde	7.551	7.551	0.000	6028	0.25000	0.251(A)	
	29 Methoxychlor	7.773	7.772	0.001	4487	0.25000	0.246	
	32 Endosulfan sulfate	8.098	8.097	0.001	5964	0.25000	0.269(A)	
	33 Endrin Ketone	8.451	8.452	-0.001	7783	0.25000	0.258(A)	
$	34 Decachlorobiphenyl	9.723	9.722	0.001	7125	0.25000	0.244	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00054.D
Date : 11-SEP-2023 22:26
Client ID:
Instrument: gc01.i
Sample Info: WG342485-7
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QI00054.D
Report Date: 20-Sep-2023 12:04

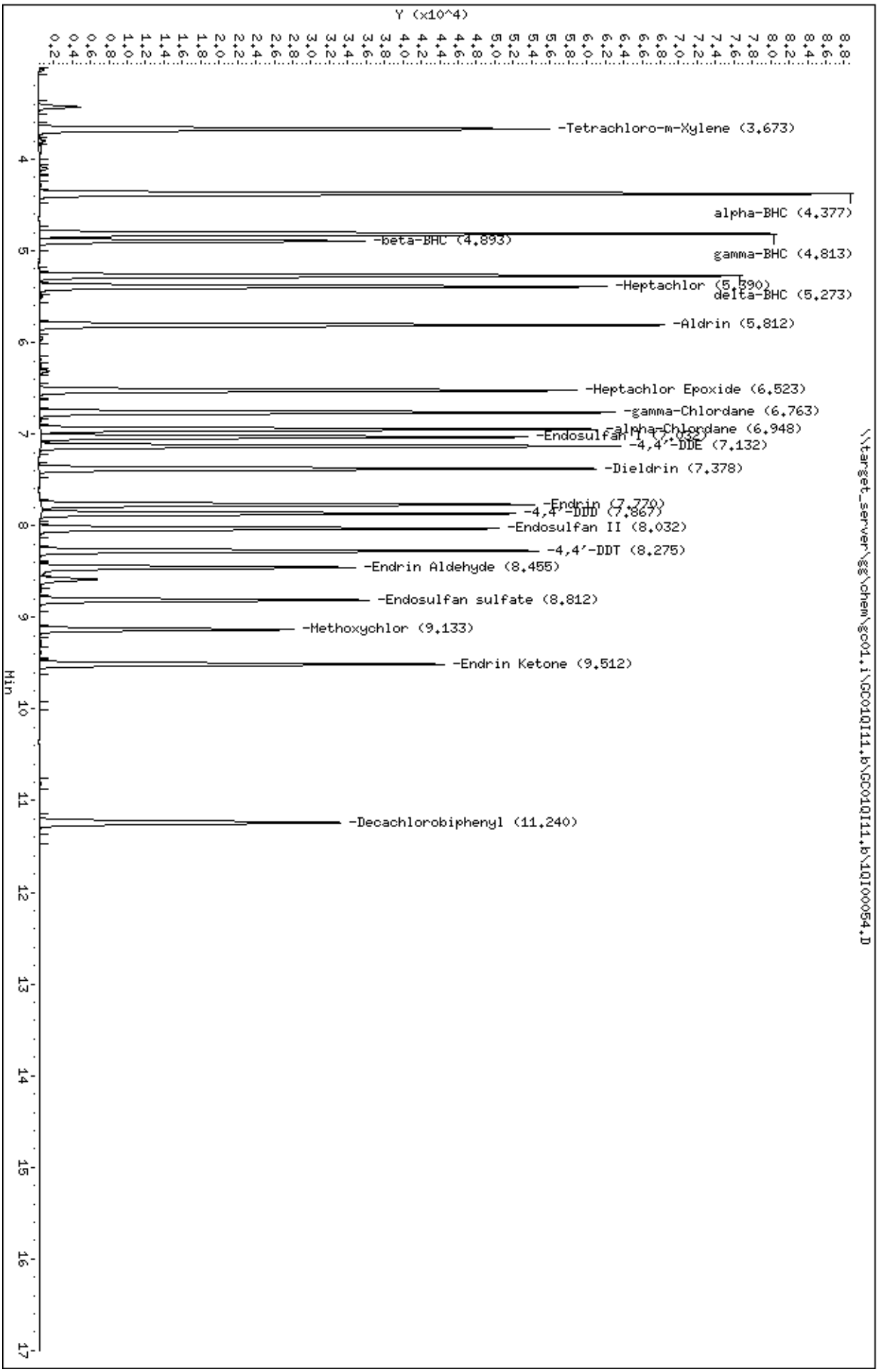
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00054.D
Lab Smp Id: INDAB 0.25
Inj Date : 11-SEP-2023 22:26
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-7
Misc Info : WG342485,WG342485,WG342485-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 22:26   Cal File: 1QI00054.D
Als bottle: 9   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$ 4	Tetrachloro-m-Xylene	3.673	3.672	0.001	55634	0.25000	0.224	
5	alpha-BHC	4.376	4.375	0.001	88523	0.25000	0.221	
6	gamma-BHC	4.813	4.814	-0.001	80224	0.25000	0.224	
7	beta-BHC	4.893	4.894	-0.001	35412	0.25000	0.233	
8	delta-BHC	5.273	5.272	0.001	76487	0.25000	0.229	
9	Heptachlor	5.389	5.390	-0.001	61655	0.25000	0.226	
10	Aldrin	5.811	5.810	0.001	68098	0.25000	0.223	
13	Heptachlor Epoxide	6.523	6.522	0.001	58476	0.25000	0.218	
15	gamma-Chlordane	6.763	6.764	-0.001	62637	0.25000	0.228	
17	alpha-Chlordane	6.948	6.949	-0.001	60679	0.25000	0.230	
19	4,4'-DDE	7.131	7.132	-0.001	63095	0.25000	0.231	
20	Endosulfan I	7.031	7.030	0.001	53021	0.25000	0.223	
21	Dieldrin	7.378	7.377	0.001	60553	0.25000	0.226	
23	Endrin	7.769	7.770	-0.001	53775	0.25000	0.231	
24	4,4'-DDD	7.866	7.867	-0.001	51583	0.25000	0.235	
26	Endosulfan II	8.031	8.032	-0.001	49916	0.25000	0.231	
27	4,4'-DDT	8.274	8.273	0.001	54310	0.25000	0.240	
28	Endrin Aldehyde	8.454	8.455	-0.001	34416	0.25000	0.233	
29	Methoxychlor	9.133	9.134	-0.001	27577	0.25000	0.246	
32	Endosulfan sulfate	8.811	8.812	-0.001	35827	0.25000	0.256(A)	
33	Endrin Ketone	9.511	9.512	-0.001	44019	0.25000	0.245	
$ 34	Decachlorobiphenyl	11.239	11.240	-0.001	32752	0.25000	0.237	


Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00054.D
Date : 11-SEP-2023 22:26
Client ID:
Sample Info: WG342485-7
Purge Volume: 1.0
Column phase: ZB-Multiresidue-2
Instrument: gc01.i
Operator: AD
Column diameter: 0.53
\\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00054.D
Y (x10^4)
Min
-Tetrachloro-m-Xylene (3.673)
alpha-BHC (4.377)
-beta-BHC (4.893)
gamma-BHC (4.813)
-Heptachlor (5.390)
delta-BHC (5.273)
-Aldrin (5.812)
-Heptachlor Epoxide (6.523)
-gamma-Chlordane (6.763)
-alpha-Chlordane (6.948)
-Endosulfan I (7.035)
-4,4'-DDE (7.132)
-Dieldrin (7.378)
-Endrin (7.779)
-4,4'-DDD (7.867)
-Endosulfan II (8.032)
-4,4'-DDT (8.275)
-Endrin Aldehyde (8.455)
-Endosulfan sulfate (8.812)
-Methoxychlor (9.133)
-Endrin Ketone (9.512)
-Decachlorobiphenyl (11.240)

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00055.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

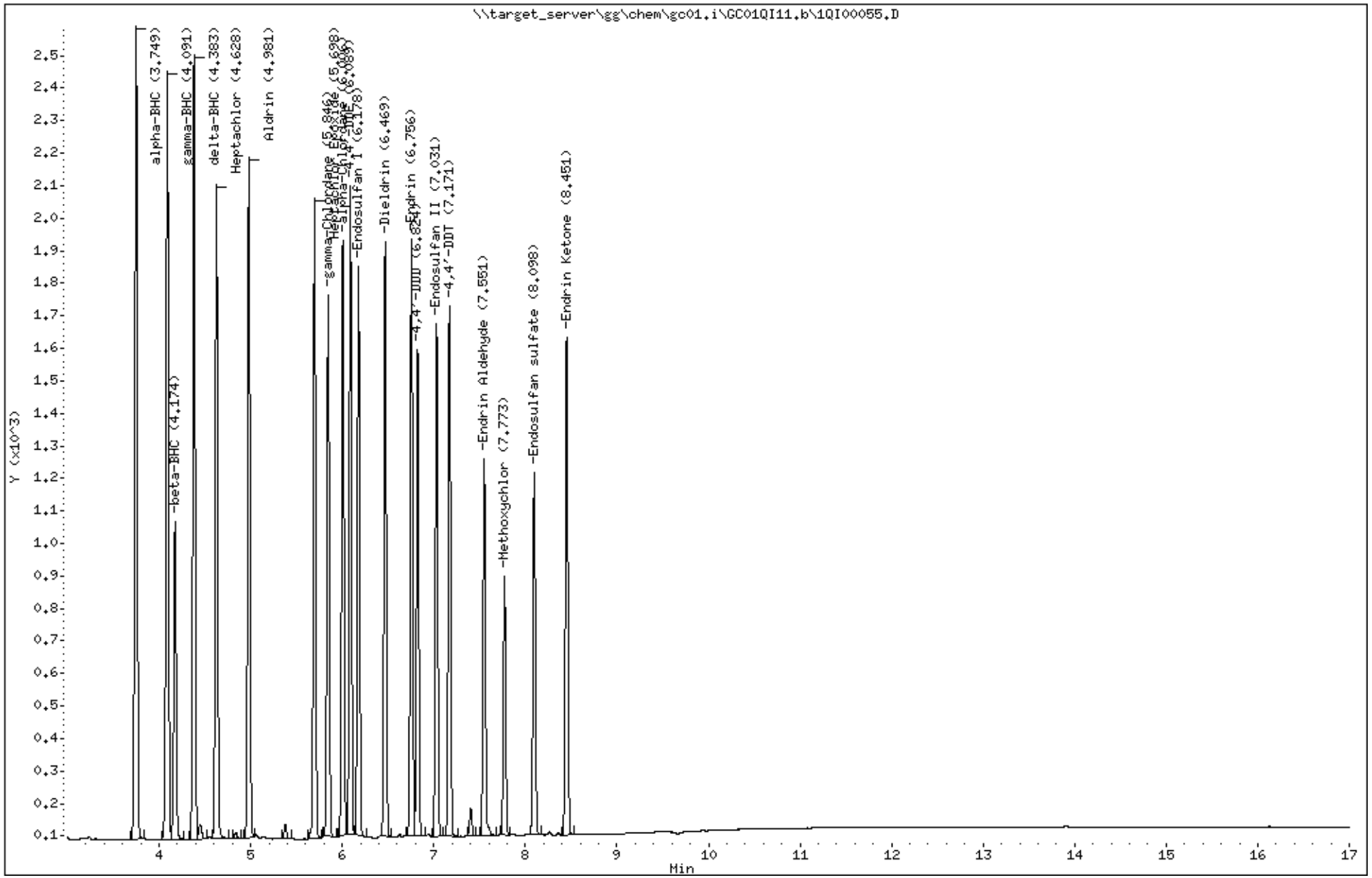
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00055.D
Lab Smp Id: INDAB IND 0.05
Inj Date : 11-SEP-2023 22:46
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-8
Misc Info : WG342485,WG342485,WG342485-2,SQ4875-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 22:26   Cal File: 1QI00054.D
Als bottle: 10   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: IND.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/L)	REVIEW CODE
5 alpha-BHC	3.749	3.747	0.002	2501	0.04633	0.0463	
6 gamma-BHC	4.090	4.089	0.001	2363	0.04704	0.0470	
7 beta-BHC	4.174	4.171	0.003	977	0.04506	0.0451	
8 delta-BHC	4.382	4.381	0.001	2411	0.04969	0.0497	
9 Heptachlor	4.627	4.627	0.000	2012	0.04823	0.0482	
10 Aldrin	4.980	4.981	-0.001	2093	0.04756	0.0476	
13 Heptachlor Epoxide	5.697	5.697	0.000	1967	0.04916	0.0492	
15 gamma-Chlordane	5.845	5.846	-0.001	1663	0.04113	0.0411	
17 alpha-Chlordane	6.005	6.006	-0.001	1830	0.04497	0.0450	
19 4,4'-DDE	6.089	6.089	0.000	1995	0.04852	0.0485	
20 Endosulfan I	6.177	6.179	-0.002	1752	0.04892	0.0489	
21 Dieldrin	6.469	6.469	0.000	1828	0.04646	0.0465	
23 Endrin	6.755	6.757	-0.002	1837	0.05000	0.0500	
24 4,4'-DDD	6.824	6.826	-0.002	1493	0.04536	0.0454	
26 Endosulfan II	7.030	7.031	-0.001	1578	0.04704	0.0470	
27 4,4'-DDT	7.170	7.172	-0.002	1629	0.04631	0.0463	
28 Endrin Aldehyde	7.550	7.551	-0.001	1160	0.04838	0.0484	
29 Methoxychlor	7.772	7.772	0.000	797	0.04363	0.0436	
32 Endosulfan sulfate	8.097	8.097	0.000	1114	0.05030	0.0503	
33 Endrin Ketone	8.450	8.452	-0.002	1529	0.05077	0.0508	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00055.D
Date : 11-SEP-2023 22:46
Client ID:
Instrument: gc01.i
Sample Info: WG342485-8
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QI00055.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

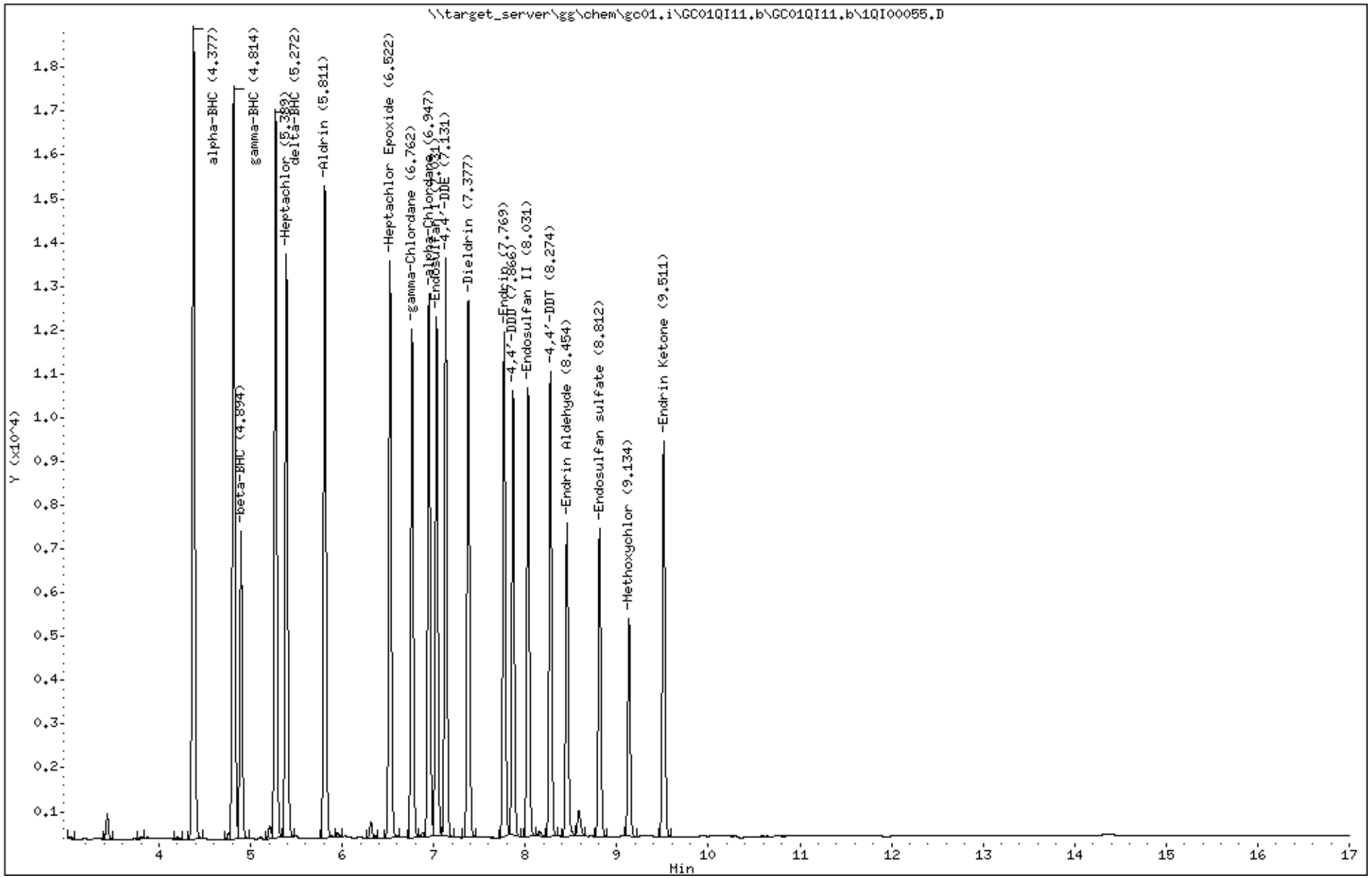
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00055.D
Lab Smp Id: INDAB IND 0.05
Inj Date : 11-SEP-2023 22:46
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-8
Misc Info : WG342485,WG342485,WG342485-2,SQ4875-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 22:26   Cal File: 1QI00054.D
Als bottle: 10   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: IND.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/L)	REVIEW CODE
5 alpha-BHC	4.377	4.375	0.002	18565	0.04640	0.0464	
6 gamma-BHC	4.814	4.814	0.000	17195	0.04809	0.0481	
7 beta-BHC	4.894	4.894	0.000	7033	0.04637	0.0464	
8 delta-BHC	5.272	5.272	0.000	16646	0.04978	0.0498	
9 Heptachlor	5.389	5.390	-0.001	13305	0.04886	0.0489	
10 Aldrin	5.810	5.810	0.000	14911	0.04884	0.0488	
13 Heptachlor Epoxide	6.522	6.522	0.000	13181	0.04916	0.0492	
15 gamma-Chlordane	6.762	6.764	-0.002	11621	0.04227	0.0423	
17 alpha-Chlordane	6.947	6.949	-0.002	12383	0.04690	0.0469	
19 4,4'-DDE	7.130	7.132	-0.002	13194	0.04824	0.0482	
20 Endosulfan I	7.030	7.030	0.000	11854	0.04985	0.0498	
21 Dieldrin	7.377	7.377	0.000	12256	0.04581	0.0458	
23 Endrin	7.769	7.770	-0.001	11523	0.04957	0.0496	
24 4,4'-DDD	7.865	7.867	-0.002	10170	0.04636	0.0464	
26 Endosulfan II	8.030	8.032	-0.002	10238	0.04747	0.0475	
27 4,4'-DDT	8.274	8.273	0.001	10627	0.04700	0.0470	
28 Endrin Aldehyde	8.454	8.455	-0.001	7171	0.04847	0.0485	
29 Methoxychlor	9.134	9.134	0.000	4975	0.04440	0.0444	
32 Endosulfan sulfate	8.812	8.812	0.000	7039	0.05024	0.0502	
33 Endrin Ketone	9.510	9.512	-0.002	9030	0.05023	0.0502	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00055.D
Date : 11-SEP-2023 22:46
Client ID:
Instrument: gc01.i
Sample Info: WG342485-8
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00056.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00056.D
Lab Smp Id: TOX 1.0
Inj Date : 11-SEP-2023 23:05
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-1
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 23:05   Cal File: 1QI00056.D
Als bottle: 11   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

AD
12:45 pm, Sep 20, 2023

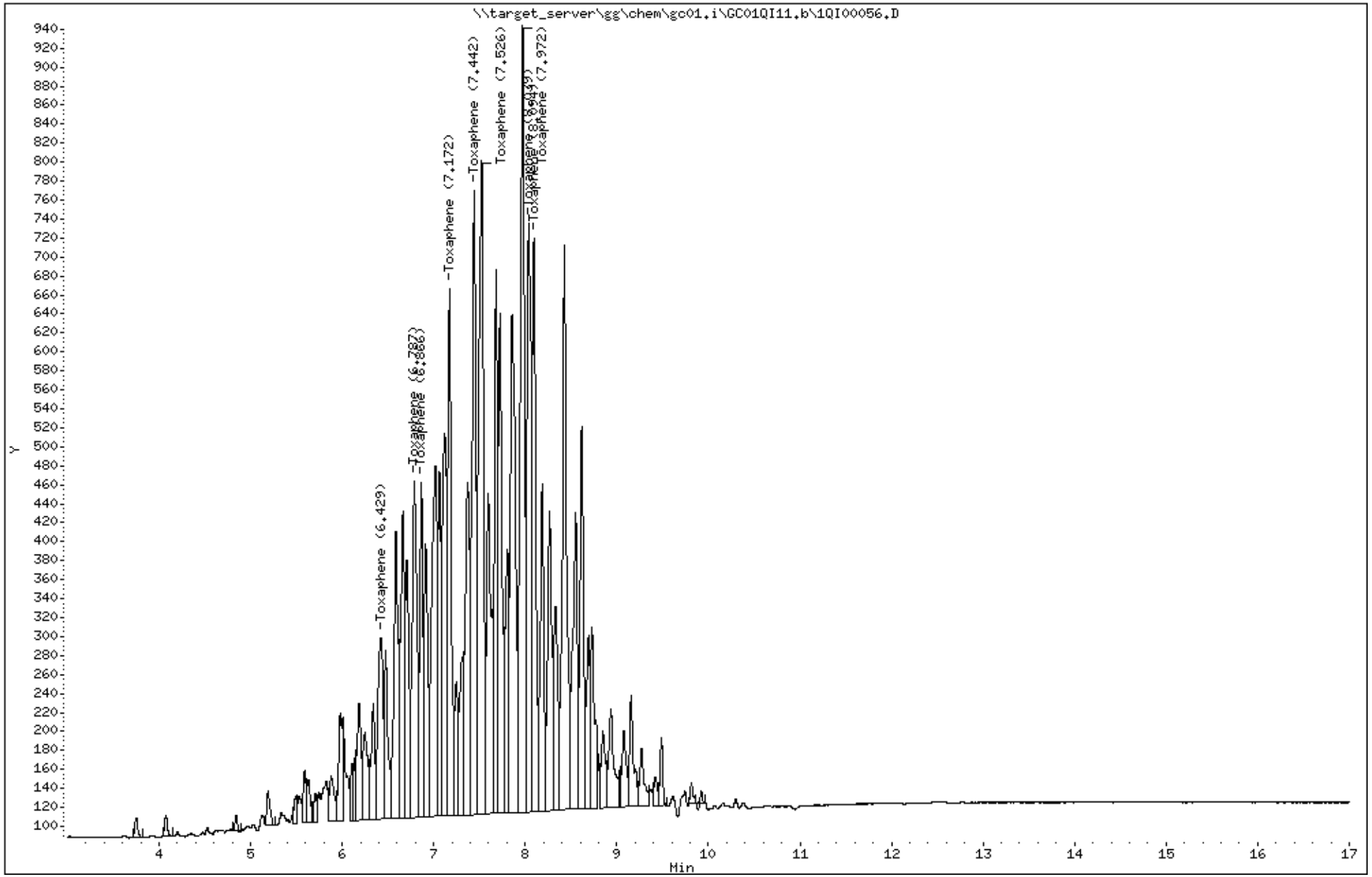
AMOUNTS

RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
6.422	6.422	0.000	190	1.00000	1.00	80.00- 120.00	100.00(M)	M5
6.787	6.787	0.000	354	1.00000	1.00	149.94- 224.90	186.32	M5
6.865	6.866	-0.001	352	1.00000	1.00	156.57- 234.85	185.26	M5
7.172	7.172	0.000	555	1.00000	1.00	235.64- 353.46	292.11	M5
7.442	7.442	0.000	657	1.00000	1.00	280.95- 421.43	345.79	M5
7.525	7.526	-0.001	688	1.00000	1.00	297.90- 446.86	362.11	M5
7.972	7.972	0.000	829	1.00000	1.00	351.22- 526.84	436.32	M5
8.037	8.037	0.000	619	1.00000	1.00	277.63- 416.45	325.79	M5
8.094	8.093	0.001	604	1.00000	1.00	270.52- 405.78	317.89	M5
Average of Peak Amounts =				1.00000				

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00056.D
Date : 11-SEP-2023 23:05
Client ID:
Instrument: gc01.i
Sample Info: WG342486-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QI00056.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00056.D
Lab Smp Id: TOX 1.0
Inj Date : 11-SEP-2023 23:05
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-1
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 23:05   Cal File: 1QI00056.D
Als bottle: 11   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

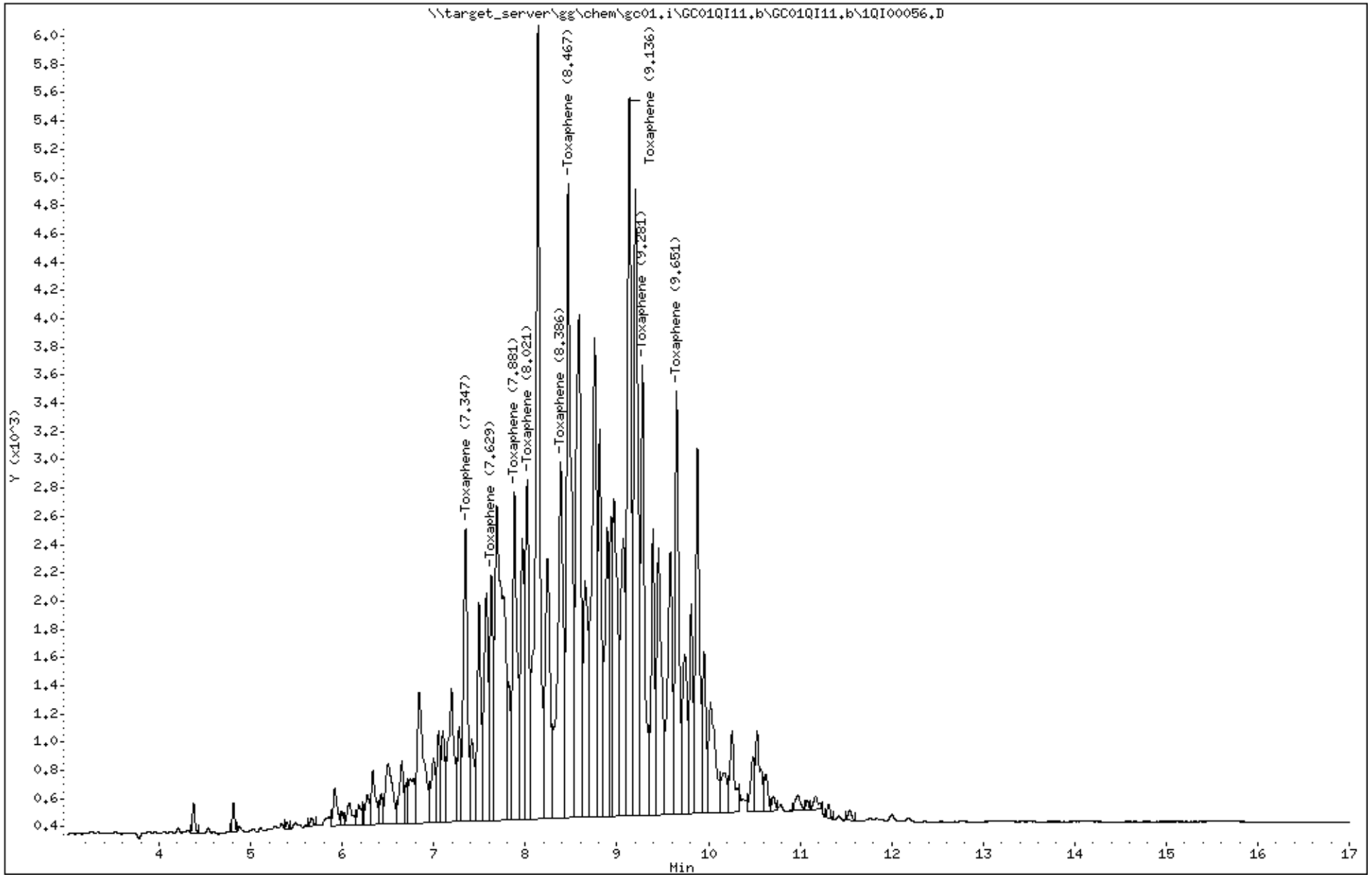
AD
12:45 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
7.347	7.347	0.000	2067	1.00000	1.00	80.00- 120.00	100.00(M)	M5
7.628	7.629	-0.001	1737	1.00000	1.00	67.76- 101.65	84.03	M5
7.880	7.881	-0.001	2317	1.00000	1.00	90.15- 135.22	112.09	M5
8.020	8.021	-0.001	2404	1.00000	1.00	97.24- 145.85	116.30	M5
8.385	8.385	0.000	2523	1.00000	1.00	102.46- 153.68	122.06	M5
8.467	8.467	0.000	4489	1.00000	1.00	174.66- 262.00	217.17	M5
9.135	9.136	-0.001	5082	1.00000	1.00	202.68- 304.02	245.86	M5
9.280	9.281	-0.001	3186	1.00000	1.00	135.88- 203.82	154.14	M5
9.650	9.651	-0.001	2999	1.00000	1.00	127.05- 190.58	145.09	M5
Average of Peak Amounts =				1.00000				

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00056.D
Date : 11-SEP-2023 23:05
Client ID:
Instrument: gc01.i
Sample Info: WG342486-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00057.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00057.D
Lab Smp Id: TOX 0.1
Inj Date : 11-SEP-2023 23:25
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-2
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 23:25   Cal File: 1QI00057.D
Als bottle: 12   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

AD
12:45 pm, Sep 20, 2023

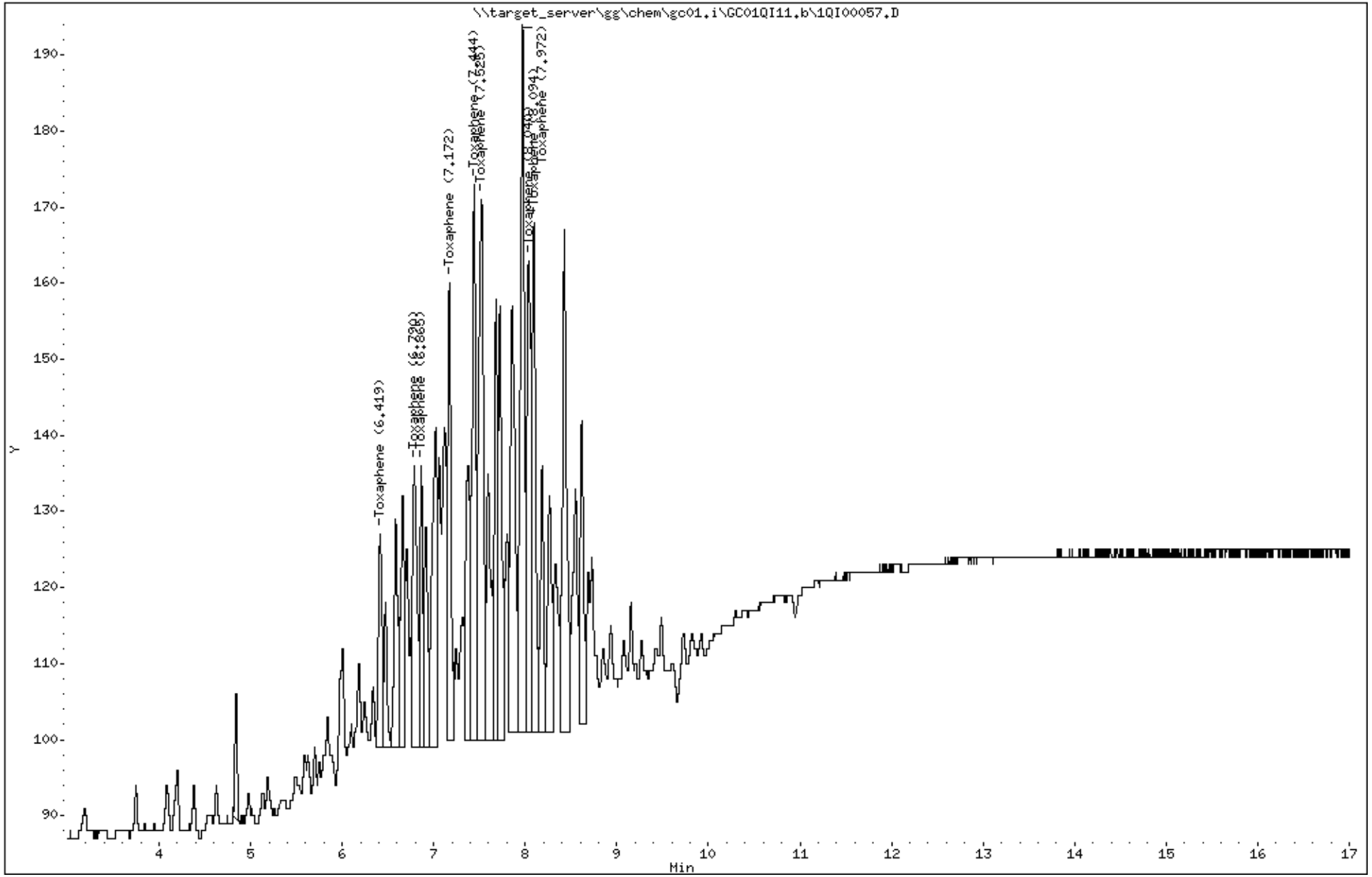
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
6.412	6.422	-0.010	28	0.10000	0.119	80.00- 120.00	100.00(M)	M5
6.783	6.787	-0.004	37	0.10000	0.102	149.94- 224.90	132.14	M5
6.862	6.866	-0.004	37	0.10000	0.102	156.57- 234.85	132.14	M5
7.168	7.172	-0.004	60	0.10000	0.104	235.64- 353.46	214.29	M5
7.440	7.442	-0.002	73	0.10000	0.105	280.95- 421.43	260.71	M5
7.520	7.526	-0.006	71	0.10000	0.102	297.90- 446.86	253.57	M5
7.970	7.972	-0.002	93	0.10000	0.106	351.22- 526.84	332.14	M5
8.033	8.037	-0.004	62	0.10000	0.100	277.63- 416.45	221.43	M5
8.092	8.093	-0.001	67	0.10000	0.105	270.52- 405.78	239.29	M5
		Average of Peak Amounts =		0.10500				

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00057.D
Date : 11-SEP-2023 23:25
Client ID:
Sample Info: WG342486-2
Purge Volume: 1.0
Column phase: ZB-Multiresidue-1

Instrument: gc01.i
Operator: AD
Column diameter: 0.53



Data File: 1QI00057.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00057.D
Lab Smp Id: TOX 0.1
Inj Date : 11-SEP-2023 23:25
Operator : AD Inst ID: gc01.i
Smp Info : WG342486-2
Misc Info : WG342486,WG342486,WG342486
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow Quant Type: ESTD
Cal Date : 11-SEP-2023 23:25 Cal File: 1QI00057.D
Als bottle: 12 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Tox.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

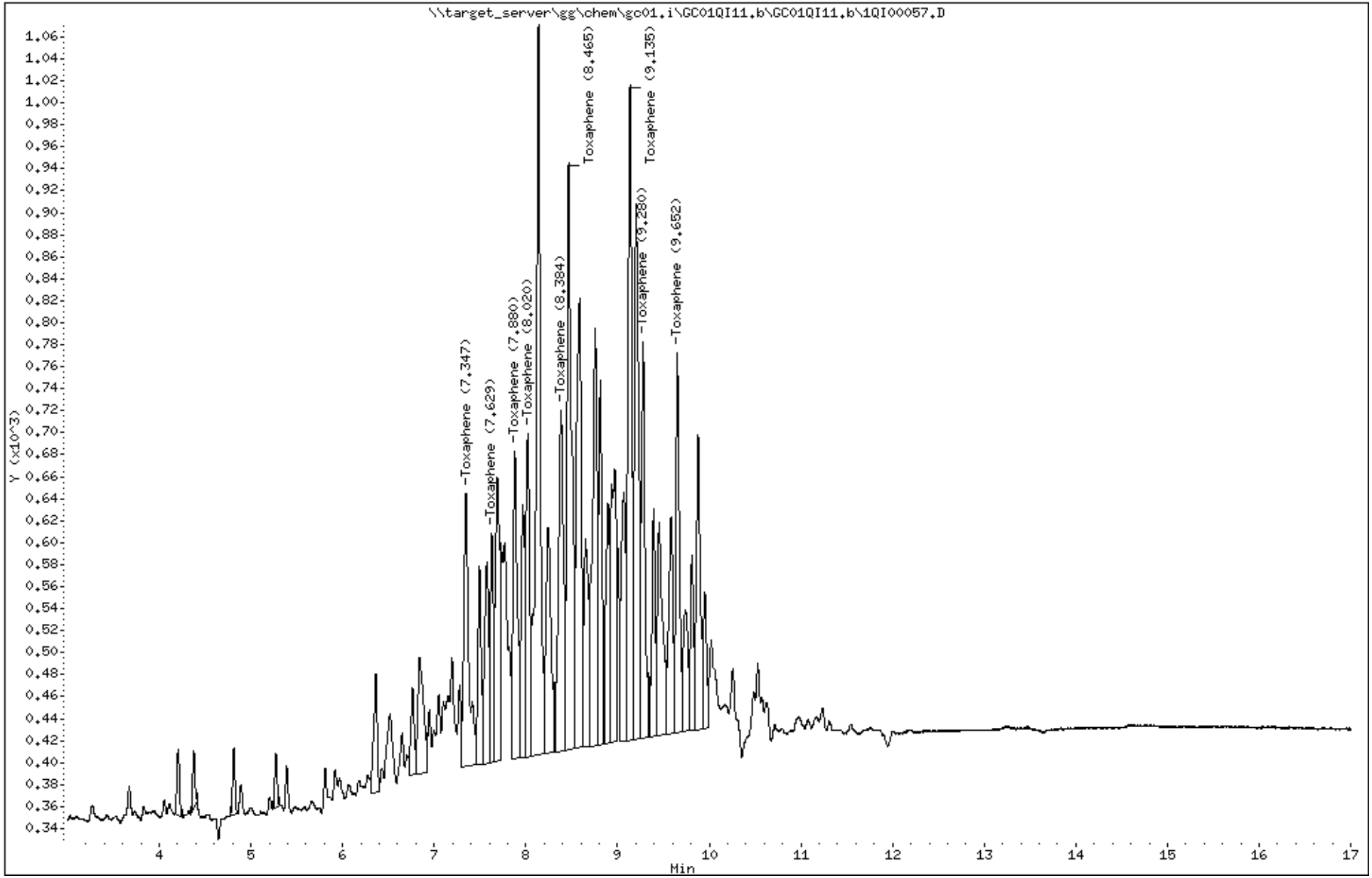
AD
12:45 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
7.345	7.347	-0.002	247	0.10000	0.109	80.00- 120.00	100.00(M)	M5
7.626	7.629	-0.003	207	0.10000	0.109	67.76- 101.65	83.81	M5
7.880	7.881	-0.001	279	0.10000	0.109	90.15- 135.22	112.96	M5
8.018	8.021	-0.003	293	0.10000	0.110	97.24- 145.85	118.62	M5
8.383	8.385	-0.002	310	0.10000	0.110	102.46- 153.68	125.51	M5
8.465	8.467	-0.002	533	0.10000	0.108	174.66- 262.00	215.79	M5
9.135	9.136	-0.001	595	0.10000	0.108	202.68- 304.02	240.89	M5
9.278	9.281	-0.003	360	0.10000	0.106	135.88- 203.82	145.75	M5
9.651	9.651	0.000	344	0.10000	0.107	127.05- 190.58	139.27	M5
		Average of Peak Amounts =		0.10844				

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00057.D
Date : 11-SEP-2023 23:25
Client ID:
Instrument: gc01.i
Sample Info: WG342486-2
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00058.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00058.D
Lab Smp Id: TOX 0.25
Inj Date : 11-SEP-2023 23:44
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-3
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 23:44   Cal File: 1QI00058.D
Als bottle: 13   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

AD
12:45 pm, Sep 20, 2023

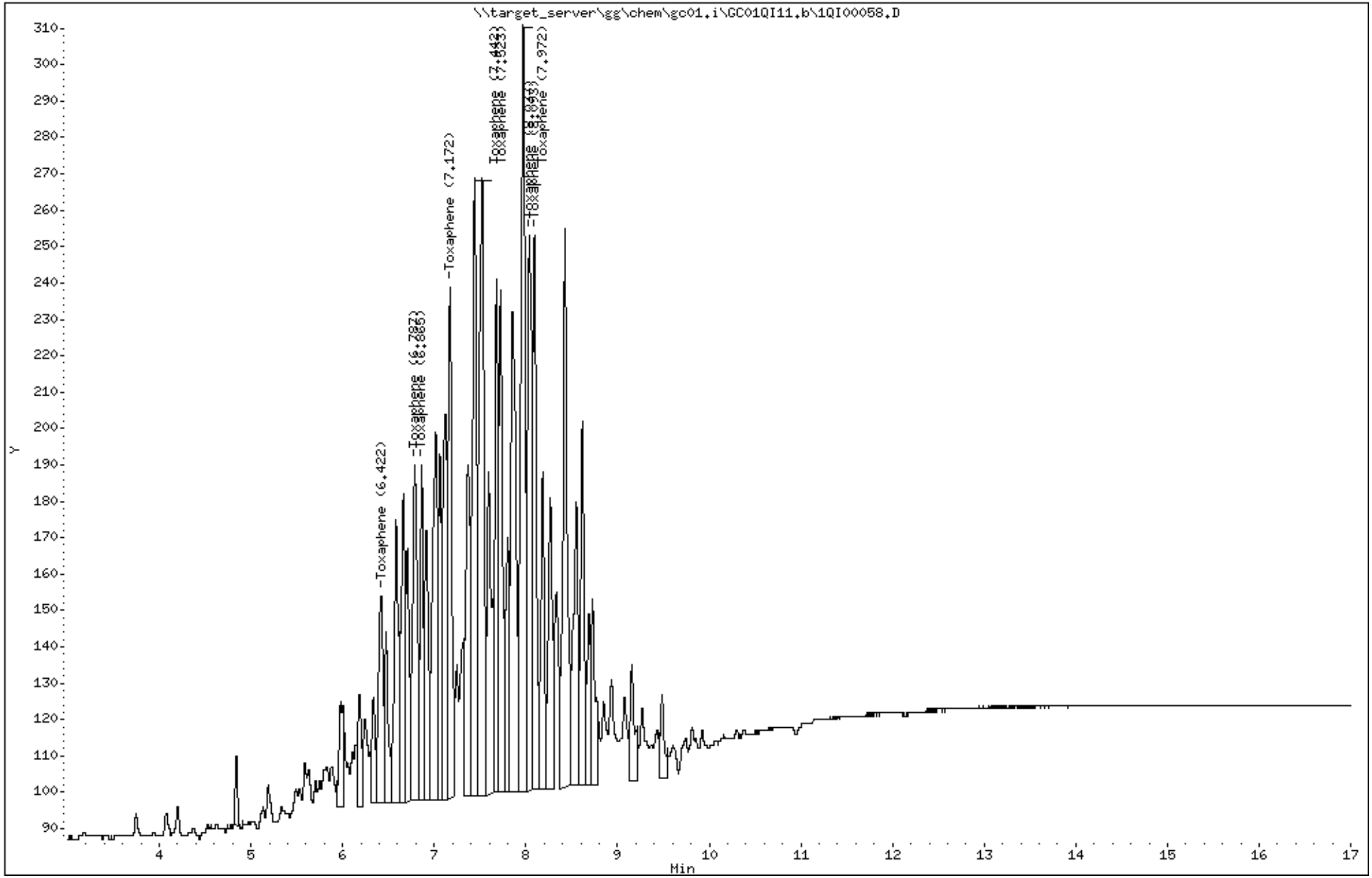
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
6.415	6.422	-0.007	57	0.25000	0.245	80.00- 120.00	100.00(M)	M5
6.786	6.787	-0.001	92	0.25000	0.253	149.94- 224.90	161.40	M5
6.863	6.866	-0.003	92	0.25000	0.253	156.57- 234.85	161.40	M5
7.171	7.172	-0.001	140	0.25000	0.245	235.64- 353.46	245.61	M5
7.440	7.442	-0.002	170	0.25000	0.247	280.95- 421.43	298.25	M5
7.523	7.526	-0.003	170	0.25000	0.245	297.90- 446.86	298.25	M5
7.971	7.972	-0.001	211	0.25000	0.243	351.22- 526.84	370.18	M5
8.035	8.037	-0.002	152	0.25000	0.247	277.63- 416.45	266.67	M5
8.091	8.093	-0.002	152	0.25000	0.242	270.52- 405.78	266.67	M5
		Average of Peak Amounts =		0.24667				

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00058.D
Date : 11-SEP-2023 23:44
Client ID:
Sample Info: WG342486-3
Purge Volume: 1.0
Column phase: ZB-Multiresidue-1

Instrument: gc01.i
Operator: AD
Column diameter: 0.53



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Data File: 1QI00058.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00058.D
Lab Smp Id: TOX 0.25
Inj Date : 11-SEP-2023 23:44
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-3
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 23:44   Cal File: 1QI00058.D
Als bottle: 13   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

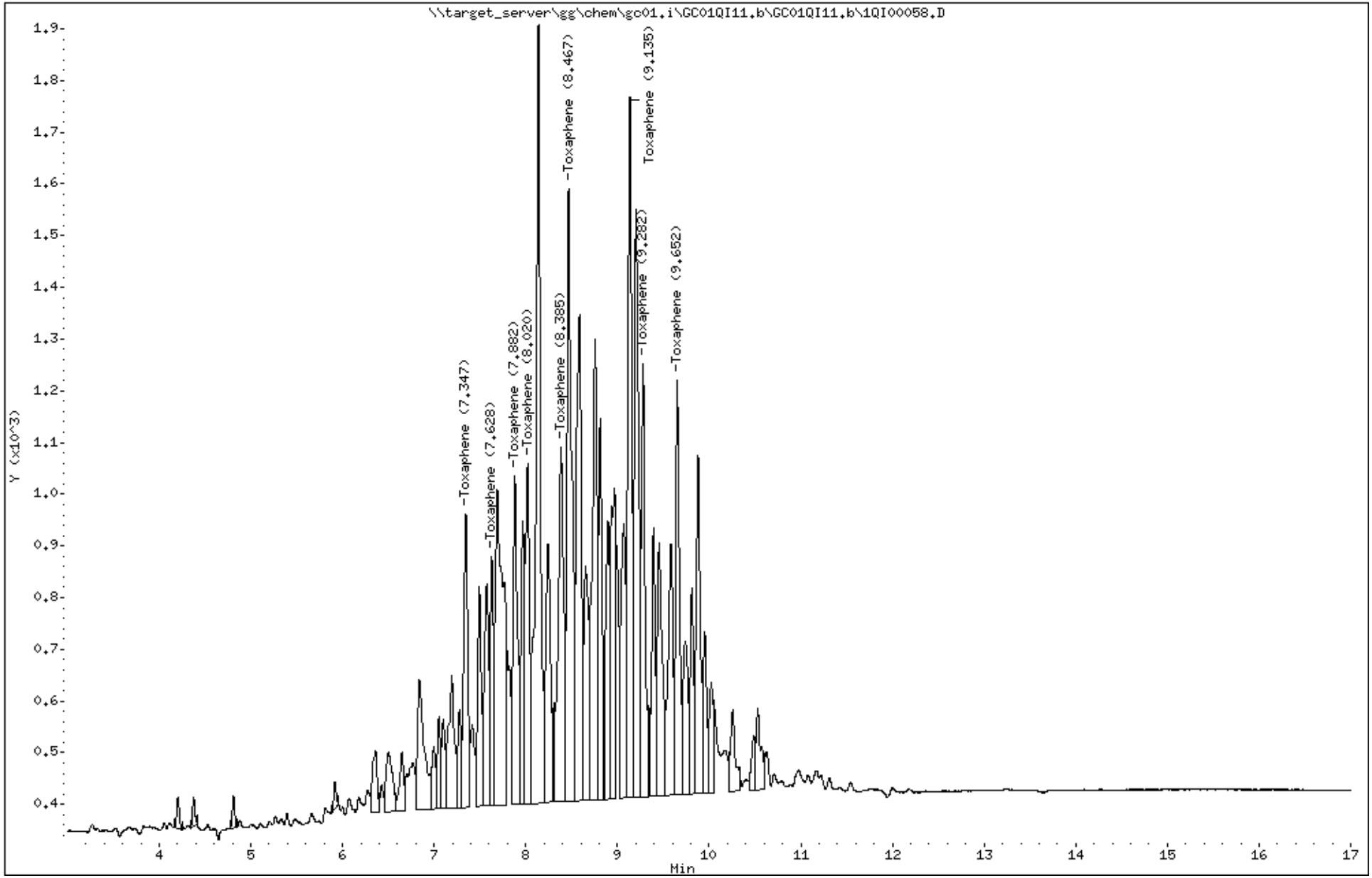
AD
12:45 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
7.346	7.347	-0.001	567	0.25000	0.250	80.00- 120.00	100.00(M)	M5
7.628	7.629	-0.001	482	0.25000	0.252	67.76- 101.65	85.01	M5
7.879	7.881	-0.002	635	0.25000	0.249	90.15- 135.22	111.99	M5
8.019	8.021	-0.002	656	0.25000	0.247	97.24- 145.85	115.70	M5
8.384	8.385	-0.001	686	0.25000	0.246	102.46- 153.68	120.99	M5
8.466	8.467	-0.001	1183	0.25000	0.244	174.66- 262.00	208.64	M5
9.134	9.136	-0.002	1355	0.25000	0.247	202.68- 304.02	238.98	M5
9.279	9.281	-0.002	838	0.25000	0.248	135.88- 203.82	147.80	M5
9.651	9.651	0.000	801	0.25000	0.249	127.05- 190.58	141.27	M5
		Average of Peak Amounts =			0.24800			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00058.D
Date : 11-SEP-2023 23:44
Client ID:
Instrument: gc01.i
Sample Info: WG342486-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00059.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00059.D
Lab Smp Id: TOX 0.5
Inj Date : 12-SEP-2023 00:04
Operator : AD Inst ID: gc01.i
Smp Info : WG342486-4
Misc Info : WG342486,WG342486,WG342486
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 00:04 Cal File: 1QI00059.D
Als bottle: 14 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Tox.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

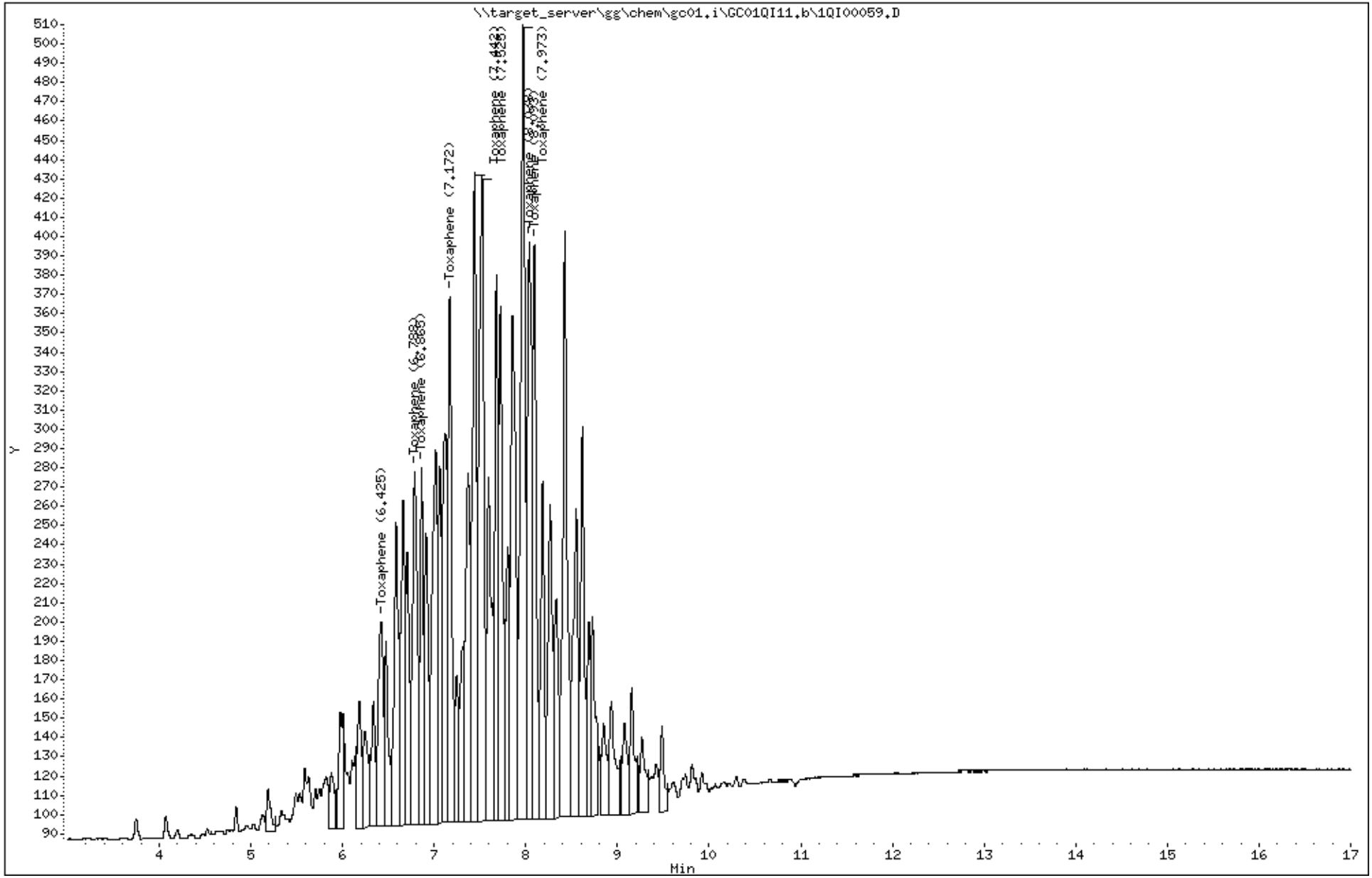
AD
12:45 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
6.419	6.422	-0.003	106	0.50000	0.466	80.00- 120.00	100.00(M)	M5
6.784	6.787	-0.003	183	0.50000	0.502	149.94- 224.90	172.64	M5
6.863	6.866	-0.003	185	0.50000	0.507	156.57- 234.85	174.53	M5
7.169	7.172	-0.003	273	0.50000	0.483	235.64- 353.46	257.55	M5
7.441	7.442	-0.001	337	0.50000	0.492	280.95- 421.43	317.92	M5
7.523	7.526	-0.003	334	0.50000	0.486	297.90- 446.86	315.09	M5
7.973	7.972	0.001	412	0.50000	0.481	351.22- 526.84	388.68	M5
8.038	8.037	0.001	299	0.50000	0.489	277.63- 416.45	282.08	M5
8.093	8.093	0.000	298	0.50000	0.481	270.52- 405.78	281.13	M5
		Average of Peak Amounts =			0.48744			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00059.D
Date : 12-SEP-2023 00:04
Client ID:
Instrument: gc01.i
Sample Info: WG342486-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QI00059.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00059.D
Lab Smp Id: TOX 0.5
Inj Date : 12-SEP-2023 00:04
Operator : AD Inst ID: gc01.i
Smp Info : WG342486-4
Misc Info : WG342486,WG342486,WG342486
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 00:04 Cal File: 1QI00059.D
Als bottle: 14 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Tox.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable



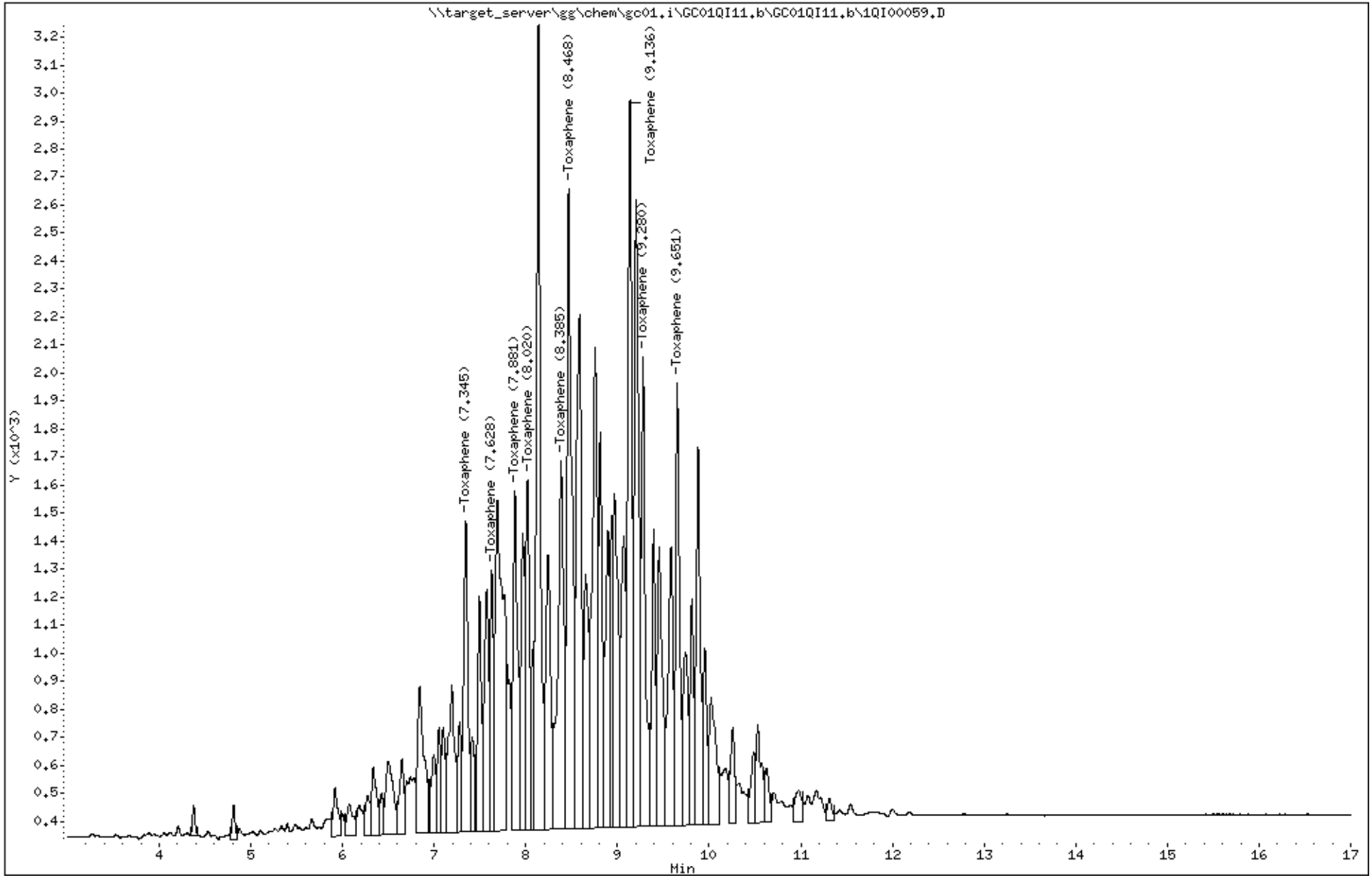
12:45 pm, Sep 20, 2023

			AMOUNTS					
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
7.344	7.347	-0.003	1109	0.50000	0.492	80.00- 120.00	100.00(M)	M5
7.628	7.629	-0.001	930	0.50000	0.490	67.76- 101.65	83.86	M5
7.881	7.881	0.000	1209	0.50000	0.480	90.15- 135.22	109.02	M5
8.019	8.021	-0.002	1250	0.50000	0.478	97.24- 145.85	112.71	M5
8.384	8.385	-0.001	1314	0.50000	0.478	102.46- 153.68	118.49	M5
8.468	8.467	0.001	2285	0.50000	0.478	174.66- 262.00	206.04	M5
9.136	9.136	0.000	2592	0.50000	0.479	202.68- 304.02	233.72	M5
9.279	9.281	-0.002	1675	0.50000	0.497	135.88- 203.82	151.04	M5
9.651	9.651	0.000	1578	0.50000	0.493	127.05- 190.58	142.29	M5
		Average of Peak Amounts =			0.48500			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00059.D
Date : 12-SEP-2023 00:04
Client ID:
Instrument: gc01.i
Sample Info: WG342486-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00060.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00060.D
Lab Smp Id: TOX 2.5
Inj Date : 12-SEP-2023 00:23
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-5
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 00:23   Cal File: 1QI00060.D
Als bottle: 15   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

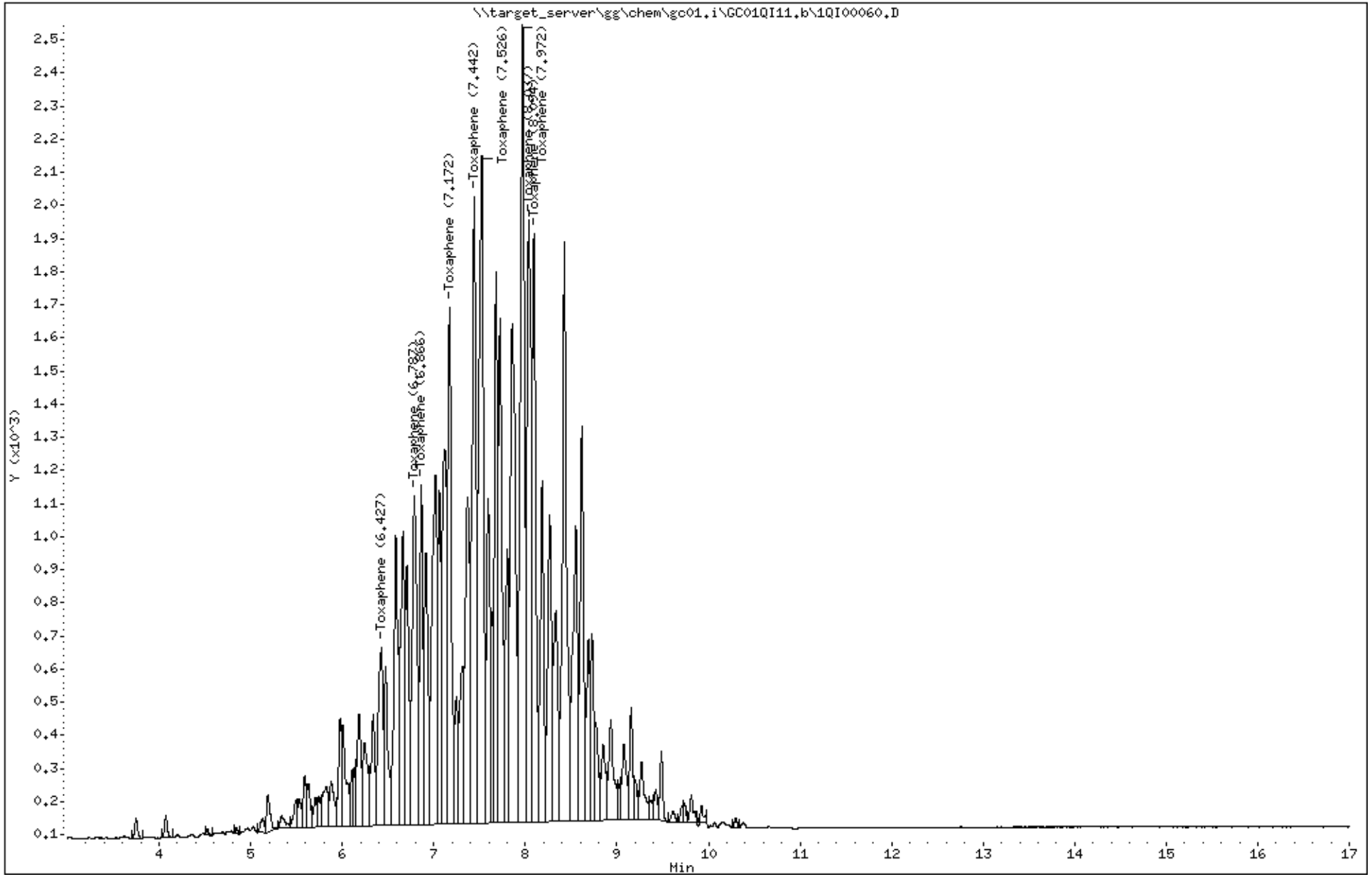
AD
12:47 pm, Sep 20, 2023

RT	EXP RT	DLT RT	AMOUNTS RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
6.427	6.422	0.005	536	2.50000	2.38	80.00- 120.00	100.00(M)	M5
6.787	6.787	0.000	992	2.50000	2.67	149.94- 224.90	185.07	M5
6.865	6.866	-0.001	1025	2.50000	2.74	156.57- 234.85	191.23	M5
7.172	7.172	0.000	1561	2.50000	2.70	235.64- 353.46	291.23	M5
7.440	7.442	-0.002	1892	2.50000	2.70	280.95- 421.43	352.99	M5
7.525	7.526	-0.001	2016	2.50000	2.84	297.90- 446.86	376.12	M5
7.972	7.972	0.000	2408	2.50000	2.74	351.22- 526.84	449.25	M5
8.037	8.037	0.000	1818	2.50000	2.86	277.63- 416.45	339.18	M5
8.094	8.093	0.001	1775	2.50000	2.78	270.52- 405.78	331.16	M5
		Average of Peak Amounts =			2.71222			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00060.D
Date : 12-SEP-2023 00:23
Client ID:
Instrument: gc01.i
Sample Info: WG342486-5
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QI00061.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00061.D
Lab Smp Id: TOX 10
Inj Date : 12-SEP-2023 00:43
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-6
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 00:43   Cal File: 1QI00061.D
Als bottle: 16   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable



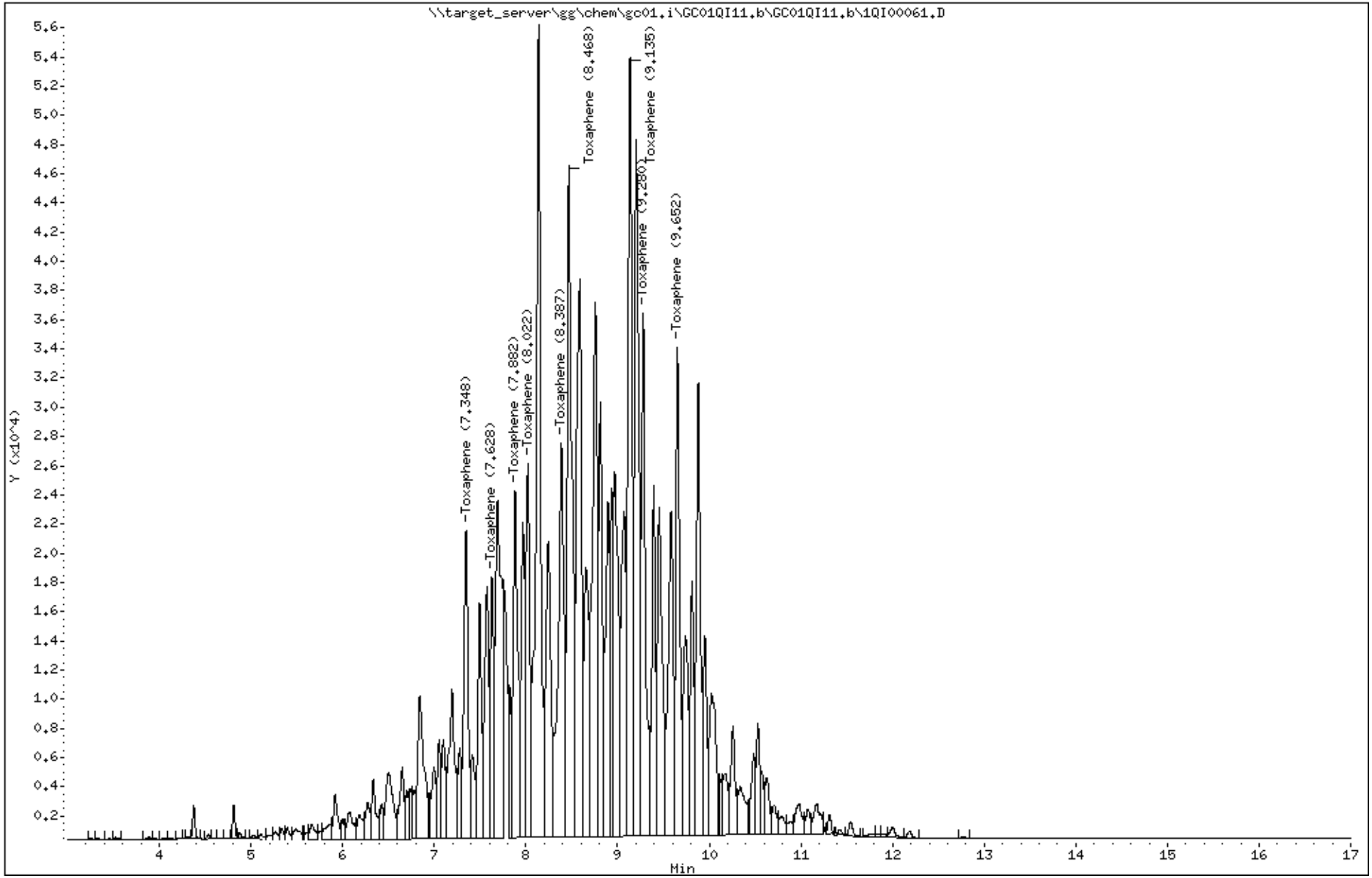
12:47 pm, Sep 20, 2023

RT	EXP RT	DLT RT	AMOUNTS RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
7.348	7.347	0.001	21059	10.0000	9.46	80.00- 120.00	100.00(M)	M5
7.628	7.629	-0.001	17838	10.0000	9.52	67.76- 101.65	84.70	M5
7.881	7.881	0.000	23730	10.0000	9.54	90.15- 135.22	112.68	M5
8.021	8.021	0.000	25596	10.0000	9.80	97.24- 145.85	121.54	M5
8.386	8.385	0.001	26970	10.0000	9.83	102.46- 153.68	128.07	M5
8.468	8.467	0.001	45978	10.0000	9.61	174.66- 262.00	218.33	M5
9.135	9.136	-0.001	53353	10.0000	9.77	202.68- 304.02	253.35	M5
9.280	9.281	-0.001	35768	10.0000	10.3	135.88- 203.82	169.85	M5
9.651	9.651	0.000	33445	10.0000	10.2	127.05- 190.58	158.82	M5
		Average of Peak Amounts =			9.78111			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00061.D
Date : 12-SEP-2023 00:43
Client ID:
Instrument: gc01.i
Sample Info: WG342486-6
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00061.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00061.D
Lab Smp Id: TOX 10
Inj Date : 12-SEP-2023 00:43
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-6
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 00:43   Cal File: 1QI00061.D
Als bottle: 16   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

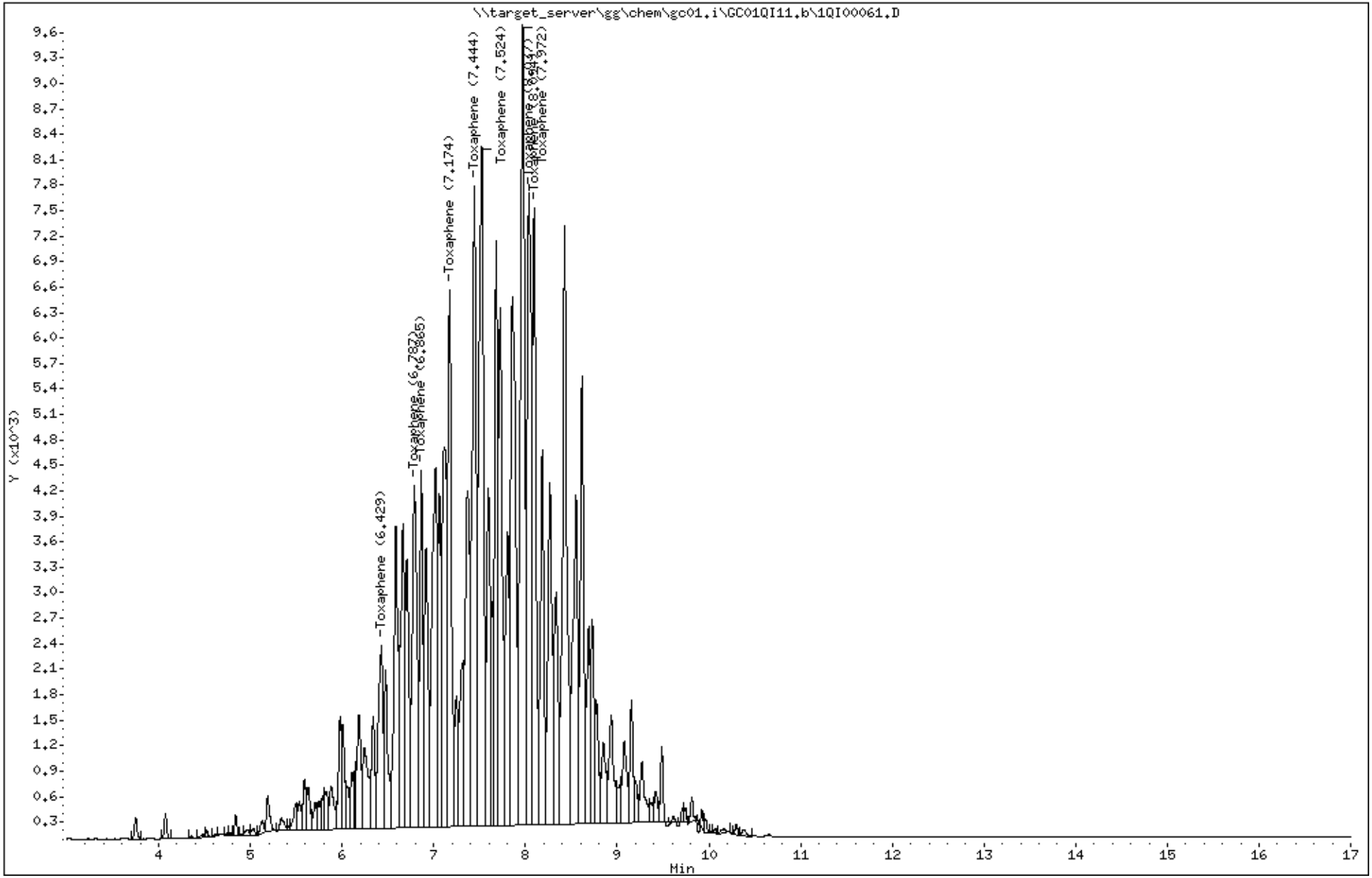
AD
12:47 pm, Sep 20, 2023

RT	EXP RT	DLT RT	AMOUNTS RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
6.428	6.422	0.006	2147	10.0000	9.62	80.00- 120.00	100.00(AM)	M5
6.786	6.787	-0.001	4024	10.0000	10.7	149.94- 224.90	187.42	M5
6.865	6.866	-0.001	4202	10.0000	11.0	156.57- 234.85	195.71	M5
7.173	7.172	0.001	6324	10.0000	10.8	235.64- 353.46	294.55	M5
7.443	7.442	0.001	7540	10.0000	10.6	280.95- 421.43	351.19	M5
7.523	7.526	-0.003	7995	10.0000	11.0	297.90- 446.86	372.38	M5
7.971	7.972	-0.001	9426	10.0000	10.6	351.22- 526.84	439.03	M5
8.036	8.037	-0.001	7451	10.0000	11.4	277.63- 416.45	347.04	M5
8.093	8.093	0.000	7260	10.0000	11.1	270.52- 405.78	338.15	M5
		Average of Peak Amounts =			10.7578			

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00061.D
Date : 12-SEP-2023 00:43
Client ID:
Instrument: gc01.i
Sample Info: WG342486-6
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QI00060.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

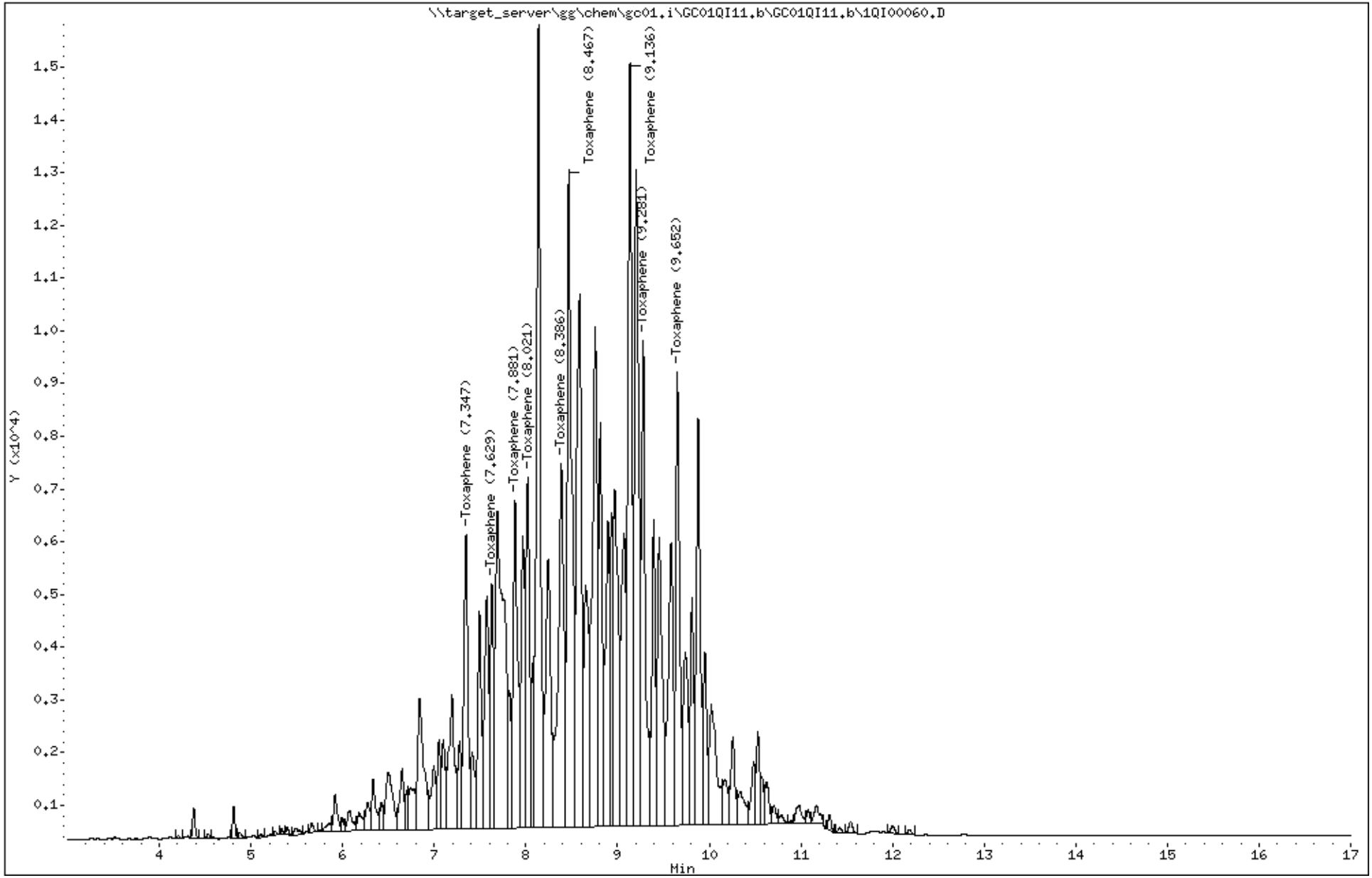
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00060.D
Lab Smp Id: TOX 2.5
Inj Date : 12-SEP-2023 00:23
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-5
Misc Info : WG342486,WG342486,WG342486
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 00:23   Cal File: 1QI00060.D
Als bottle: 15   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
7.347	7.347	0.000	5570	2.50000	2.48	80.00- 120.00	100.00	
7.628	7.629	-0.001	4649	2.50000	2.46	67.76- 101.65	83.46	
7.880	7.881	-0.001	6219	2.50000	2.48	90.15- 135.22	111.65	
8.020	8.021	-0.001	6642	2.50000	2.53	97.24- 145.85	119.25	
8.385	8.385	0.000	6907	2.50000	2.51	102.46- 153.68	124.00	
8.467	8.467	0.000	12478	2.50000	2.59	174.66- 262.00	224.02	
9.135	9.136	-0.001	14467	2.50000	2.64	202.68- 304.02	259.73	
9.280	9.281	-0.001	9200	2.50000	2.68	135.88- 203.82	165.17	
9.652	9.651	0.001	8599	2.50000	2.65	127.05- 190.58	154.38	
Average of Peak Amounts =					2.55778			

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00060.D
Date : 12-SEP-2023 00:23
Client ID:
Instrument: gc01.i
Sample Info: WG342486-5
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00062.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00062.D
Lab Smp Id: TOX IND 1.0
Inj Date : 12-SEP-2023 01:02
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-7
Misc Info : WG342486,WG342486,WG342486,SQ4875-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 00:43   Cal File: 1QI00061.D
Als bottle: 17   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

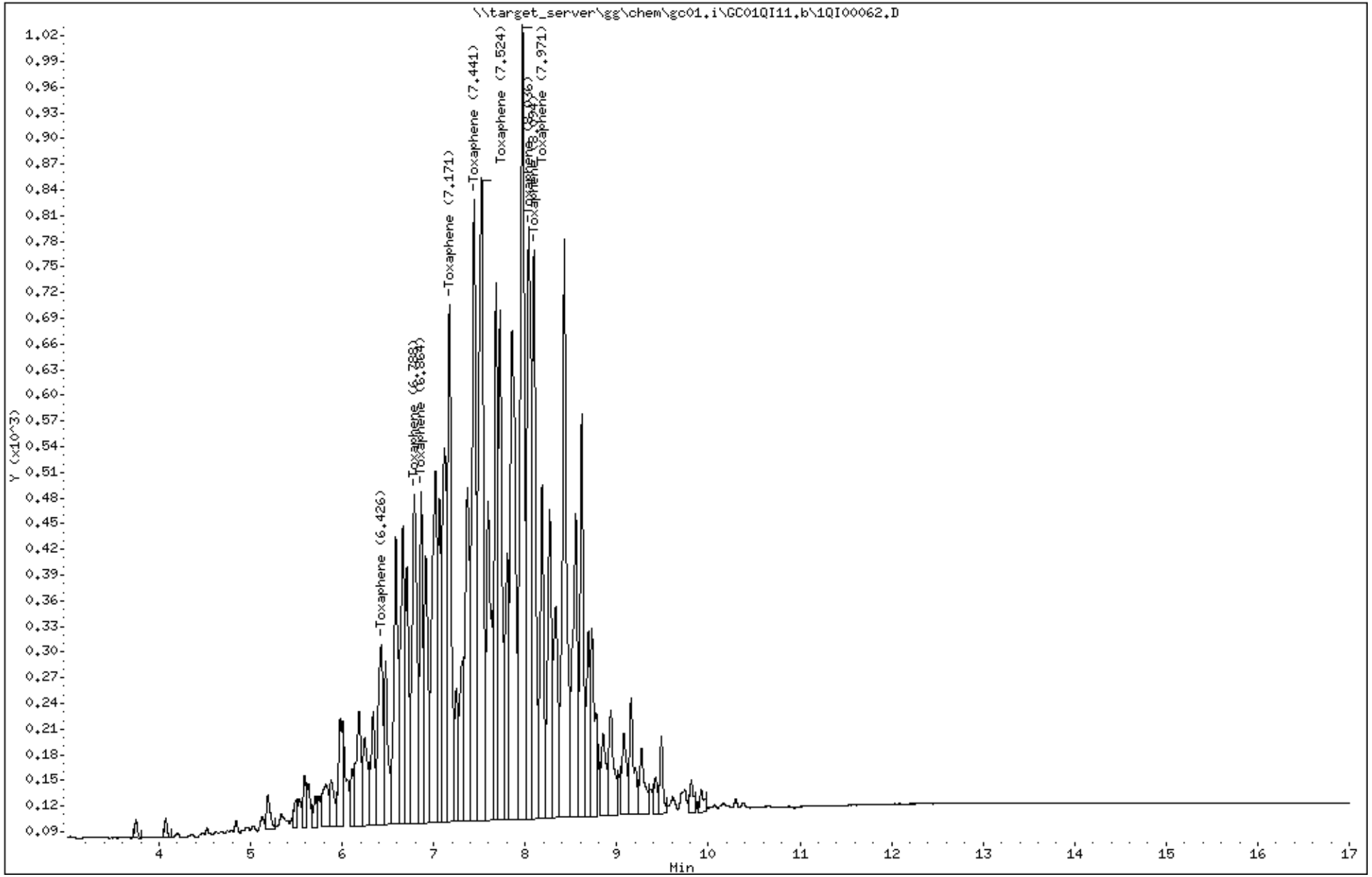
AD
12:47 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
6.424	6.422	0.002	211	0.94541	0.945	80.00- 120.00	100.00(M)	M5
6.786	6.787	-0.001	384	1.02073	1.02	149.94- 224.90	181.99	M5
6.864	6.866	-0.002	388	1.01651	1.02	156.57- 234.85	183.89	M5
7.171	7.172	-0.001	604	1.03019	1.03	235.64- 353.46	286.26	M5
7.441	7.442	-0.001	725	1.02310	1.02	280.95- 421.43	343.60	M5
7.522	7.526	-0.004	751	1.03541	1.04	297.90- 446.86	355.92	M5
7.971	7.972	-0.001	928	1.04410	1.04	351.22- 526.84	439.81	M5
8.036	8.037	-0.001	687	1.05226	1.05	277.63- 416.45	325.59	M5
8.094	8.093	0.001	663	1.01635	1.02	270.52- 405.78	314.22	M5
		Average of Peak Concentrations =			1.02			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00062.D
Date : 12-SEP-2023 01:02
Client ID:
Instrument: gc01.i
Sample Info: WG342486-7
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QI00062.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00062.D
Lab Smp Id: TOX IND 1.0
Inj Date : 12-SEP-2023 01:02
Operator : AD   Inst ID: gc01.i
Smp Info : WG342486-7
Misc Info : WG342486,WG342486,WG342486,SQ4875-2
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 00:43   Cal File: 1QI00061.D
Als bottle: 17   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

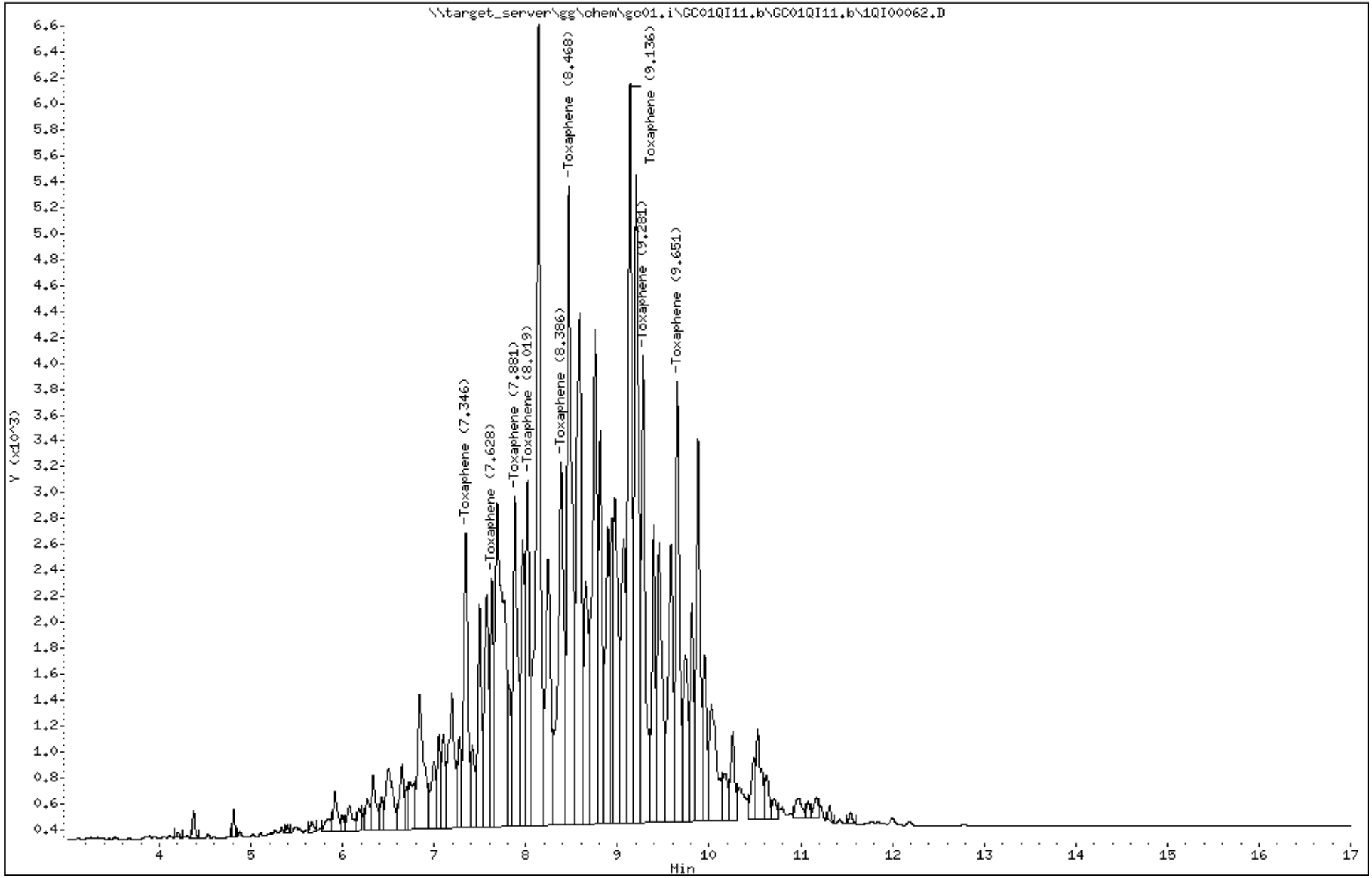
AD
12:47 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
7.345	7.347	-0.002	2275	1.02194	1.02	80.00- 120.00	100.00(M)	M5
7.627	7.629	-0.002	1922	1.02612	1.03	67.76- 101.65	84.48	M5
7.880	7.881	-0.001	2541	1.02147	1.02	90.15- 135.22	111.69	M5
8.019	8.021	-0.002	2673	1.02320	1.02	97.24- 145.85	117.49	M5
8.385	8.385	0.000	2797	1.01988	1.02	102.46- 153.68	122.95	M5
8.467	8.467	0.000	4927	1.02968	1.03	174.66- 262.00	216.57	M5
9.135	9.136	-0.001	5705	1.04493	1.04	202.68- 304.02	250.77	M5
9.280	9.281	-0.001	3603	1.04209	1.04	135.88- 203.82	158.37	M5
9.650	9.651	-0.001	3396	1.04049	1.04	127.05- 190.58	149.27	M5
		Average of Peak Concentrations =			1.03			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00062.D
Date : 12-SEP-2023 01:02
Client ID:
Instrument: gc01.i
Sample Info: WG342486-7
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00074.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00074.D
Lab Smp Id: TC 0.5
Inj Date : 12-SEP-2023 12:52
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-1
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 12:52   Cal File: 1QI00074.D
Als bottle: 2   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

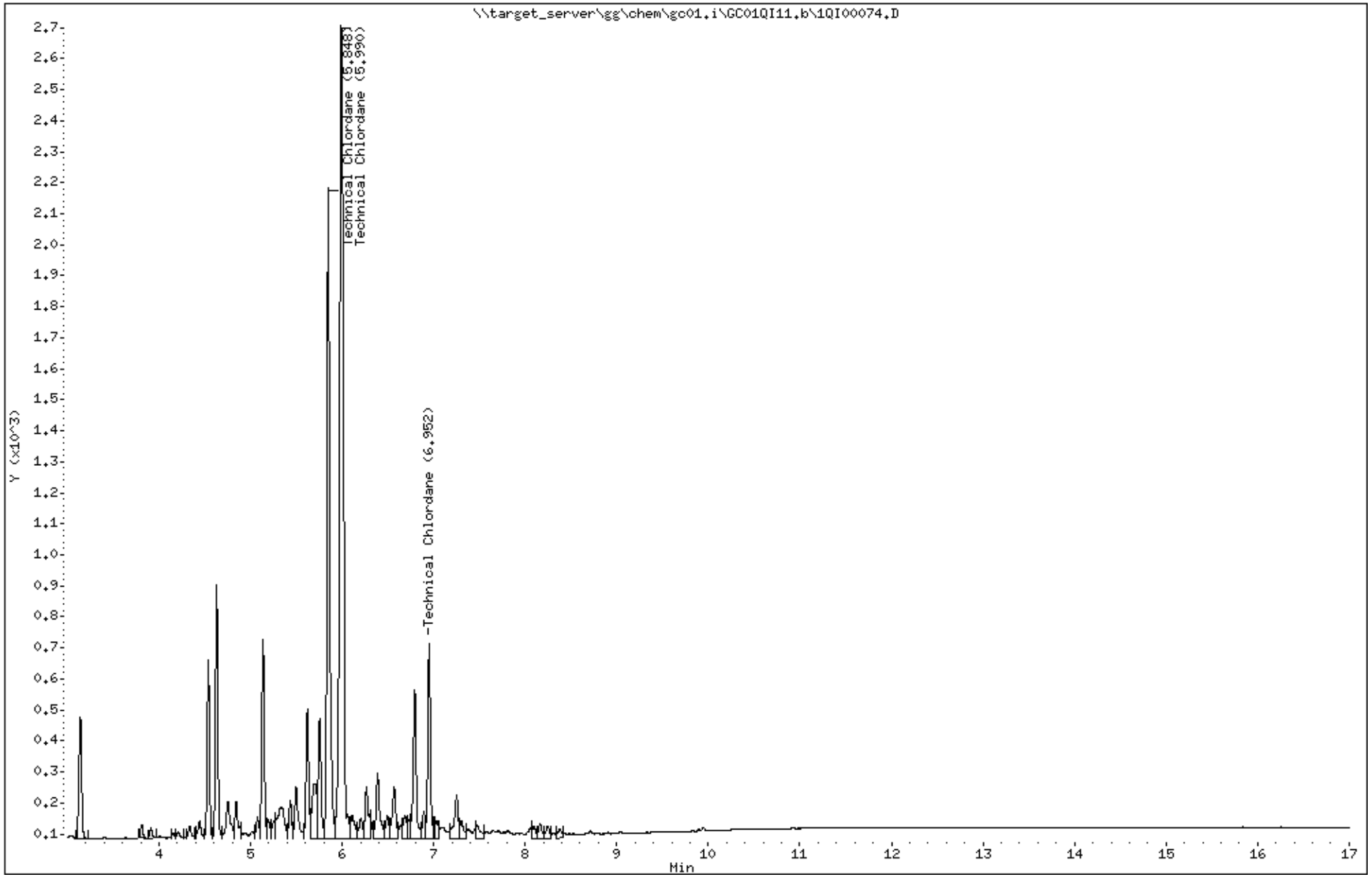
AD
12:47 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
5.848	5.848	0.000	2101	0.50000	0.495	80.00- 120.00	100.00(M)	M5
5.989	5.990	-0.001	2624	0.50000	0.492	100.22- 150.34	124.89	M5
6.951	6.952	-0.001	629	0.50000	0.494	24.11- 36.17	29.94	M5
	Average of Peak Amounts =				0.49367			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00074.D
Date : 12-SEP-2023 12:52
Client ID:
Instrument: gc01.i
Sample Info: WG342487-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QI00074.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

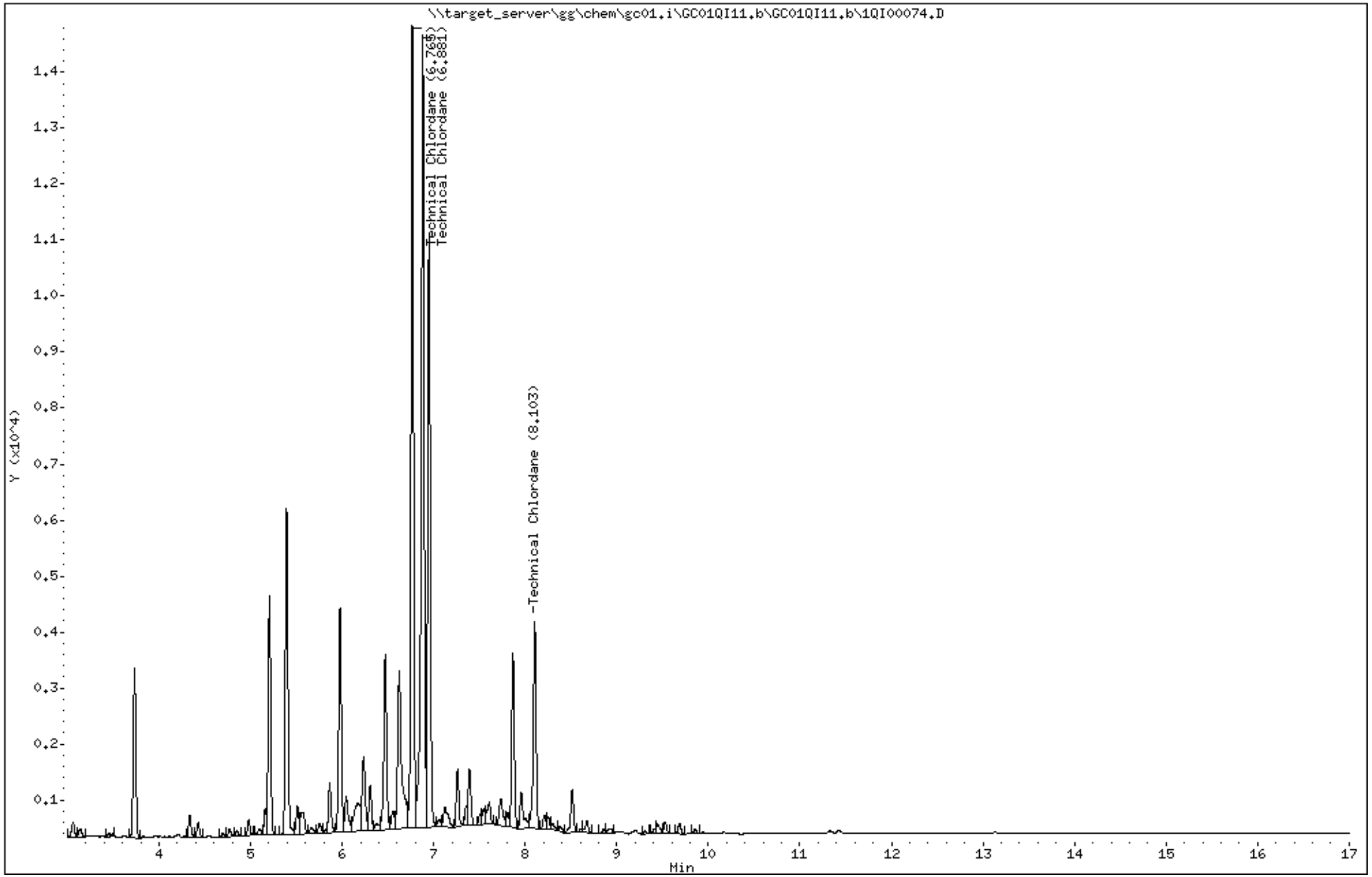
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00074.D
Lab Smp Id: TC 0.5
Inj Date : 12-SEP-2023 12:52
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-1
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 12:52   Cal File: 1QI00074.D
Als bottle: 2   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS					
				CAL-AMT	ON-COL				
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE	
14 Technical Chlordane						CAS #: 12789-03-6			
6.764	6.765	-0.001	14342	0.50000	0.500	80.00- 120.00	100.00		
6.881	6.881	0.000	14151	0.50000	0.500	79.67- 119.51	98.67		
8.103	8.103	0.000	3692	0.50000	0.500	23.29- 34.93	25.74		
		Average of Peak Amounts =		0.50000					

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00074.D
Date : 12-SEP-2023 12:52
Client ID:
Instrument: gc01.i
Sample Info: WG342487-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00075.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00075.D
Lab Smp Id: TC 0.05
Inj Date : 12-SEP-2023 13:11
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-2
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 13:11   Cal File: 1QI00075.D
Als bottle: 3   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

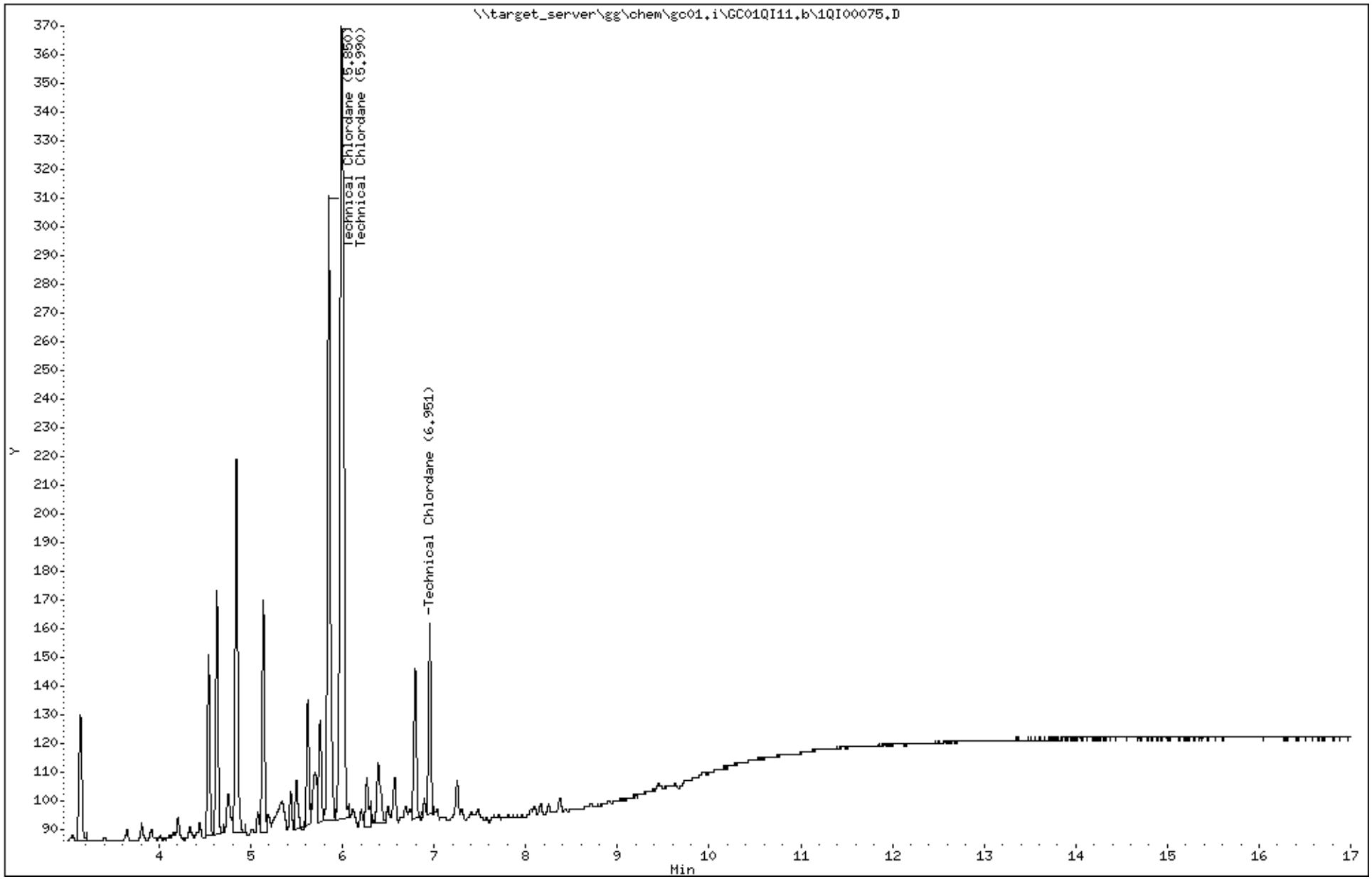
AD
12:48 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
5.849	5.848	0.001	218	0.05000	0.0513	80.00- 120.00	100.00(M)	M5
5.989	5.990	-0.001	276	0.05000	0.0518	100.22- 150.34	126.61	M5
6.951	6.952	-0.001	66	0.05000	0.0519	24.11- 36.17	30.28	M5
		Average of Peak Amounts =		0.05167				

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00075.D
Date : 12-SEP-2023 13:11
Client ID:
Instrument: gc01.i
Sample Info: WG342487-2
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QI00075.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

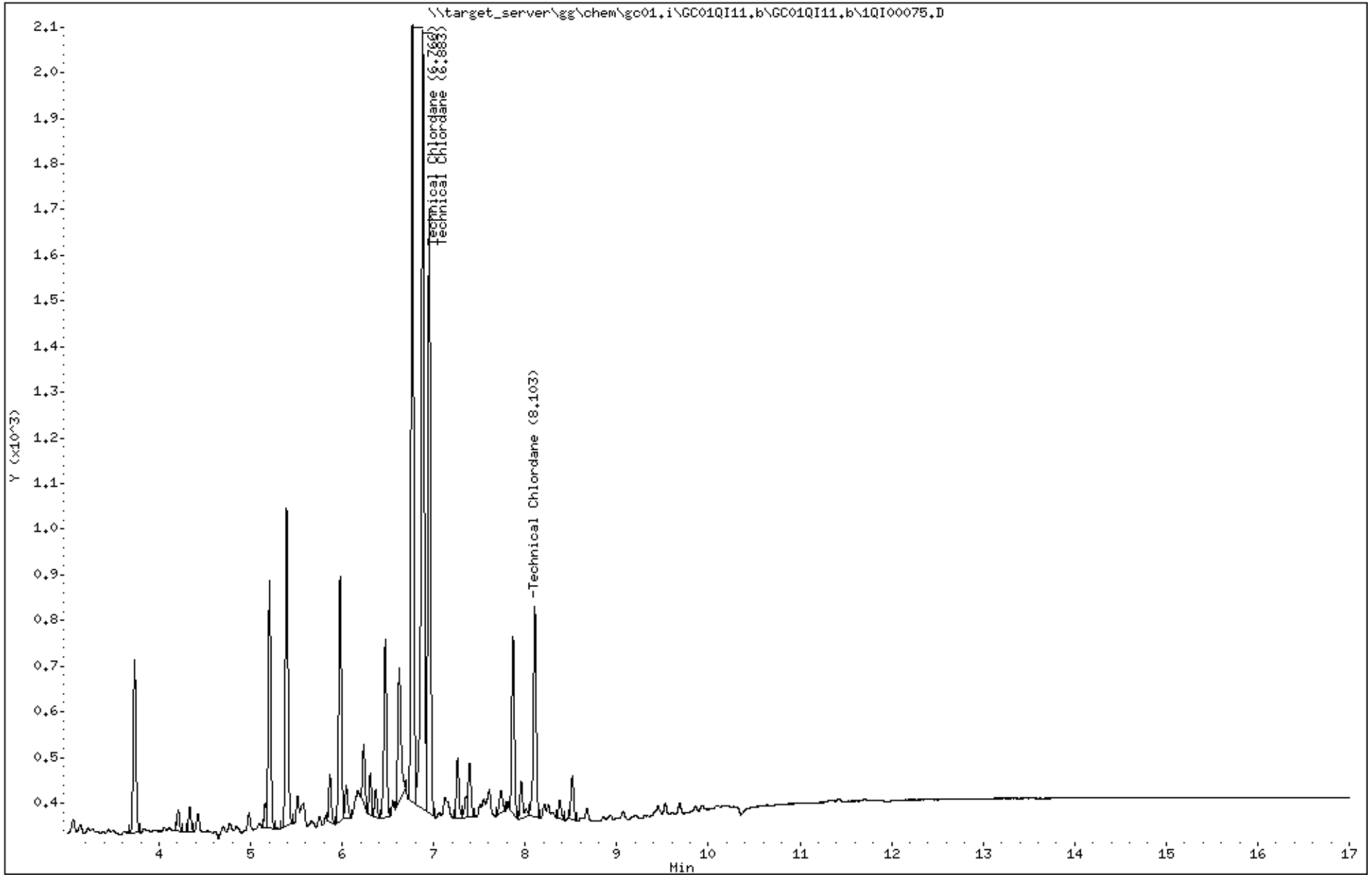
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00075.D
Lab Smp Id: TC 0.05
Inj Date : 12-SEP-2023 13:11
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-2
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 13:11   Cal File: 1QI00075.D
Als bottle: 3   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

			AMOUNTS					
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
6.766	6.765	0.001	1704	0.05000	0.0565	80.00- 120.00	100.00	
6.882	6.881	0.001	1709	0.05000	0.0571	79.67- 119.51	100.29	
8.102	8.103	-0.001	462	0.05000	0.0577	23.29- 34.93	27.11	
		Average of Peak Amounts =			0.05710			

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00075.D
Date : 12-SEP-2023 13:11
Client ID:
Instrument: gc01.i
Sample Info: WG342487-2
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00076.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00076.D
Lab Smp Id: TC 0.1
Inj Date : 12-SEP-2023 13:31
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-3
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 13:31   Cal File: 1QI00076.D
Als bottle: 4   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

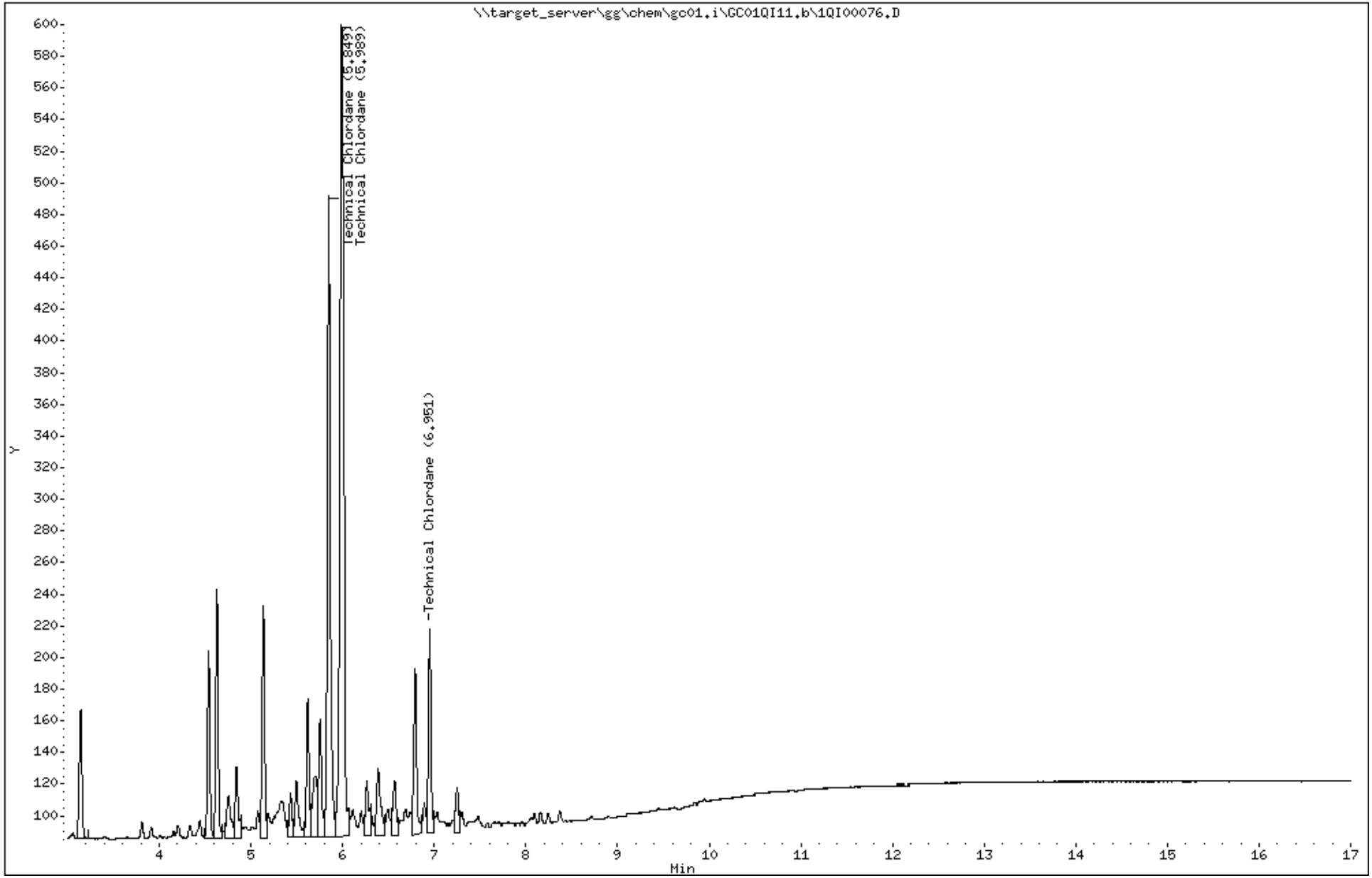
AD
12:48 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
5.847	5.848	-0.001	405	0.10000	0.0950	80.00- 120.00	100.00(M)	M5
5.989	5.990	-0.001	512	0.10000	0.0958	100.22- 150.34	126.42	M5
6.949	6.952	-0.003	129	0.10000	0.100	24.11- 36.17	31.85	M5
		Average of Peak Amounts =			0.09693			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00076.D
Date : 12-SEP-2023 13:31
Client ID:
Instrument: gc01.i
Sample Info: WG342487-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QI00076.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

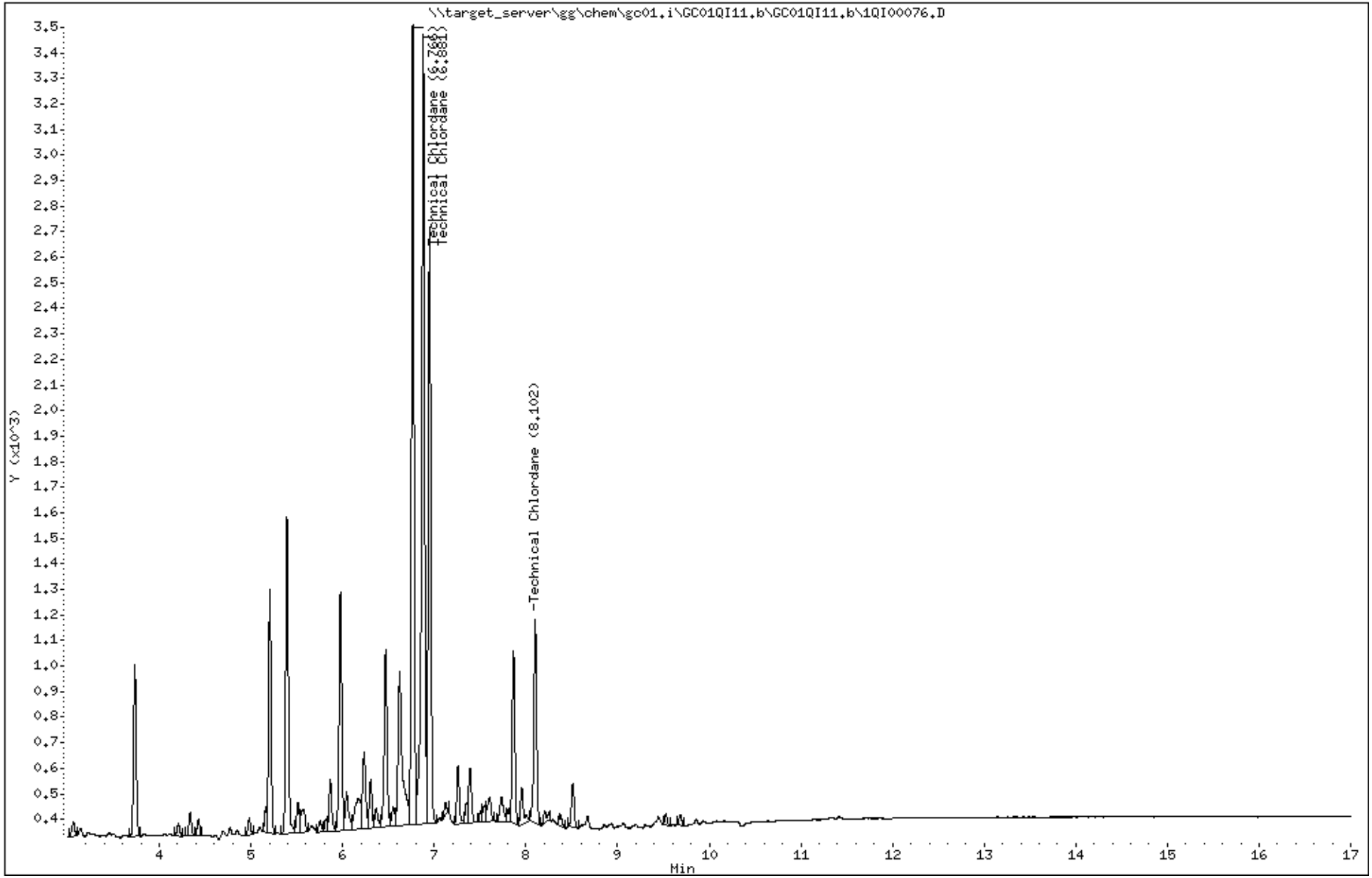
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00076.D
Lab Smp Id: TC 0.1
Inj Date : 12-SEP-2023 13:31
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-3
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 13:31   Cal File: 1QI00076.D
Als bottle: 4   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
6.765	6.765	0.000	3131	0.10000	0.0998	80.00- 120.00	100.00	
6.880	6.881	-0.001	3092	0.10000	0.0993	79.67- 119.51	98.75	
8.102	8.103	-0.001	800	0.10000	0.0975	23.29- 34.93	25.55	
Average of Peak Amounts =					0.09887			

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00076.D
Date : 12-SEP-2023 13:31
Client ID:
Instrument: gc01.i
Sample Info: WG342487-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00077.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00077.D
Lab Smp Id: TC 0.25
Inj Date : 12-SEP-2023 13:50
Operator : AD Inst ID: gc01.i
Smp Info : WG342487-4
Misc Info : WG342487,WG342487,WG342487
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 13:50 Cal File: 1QI00077.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TC.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

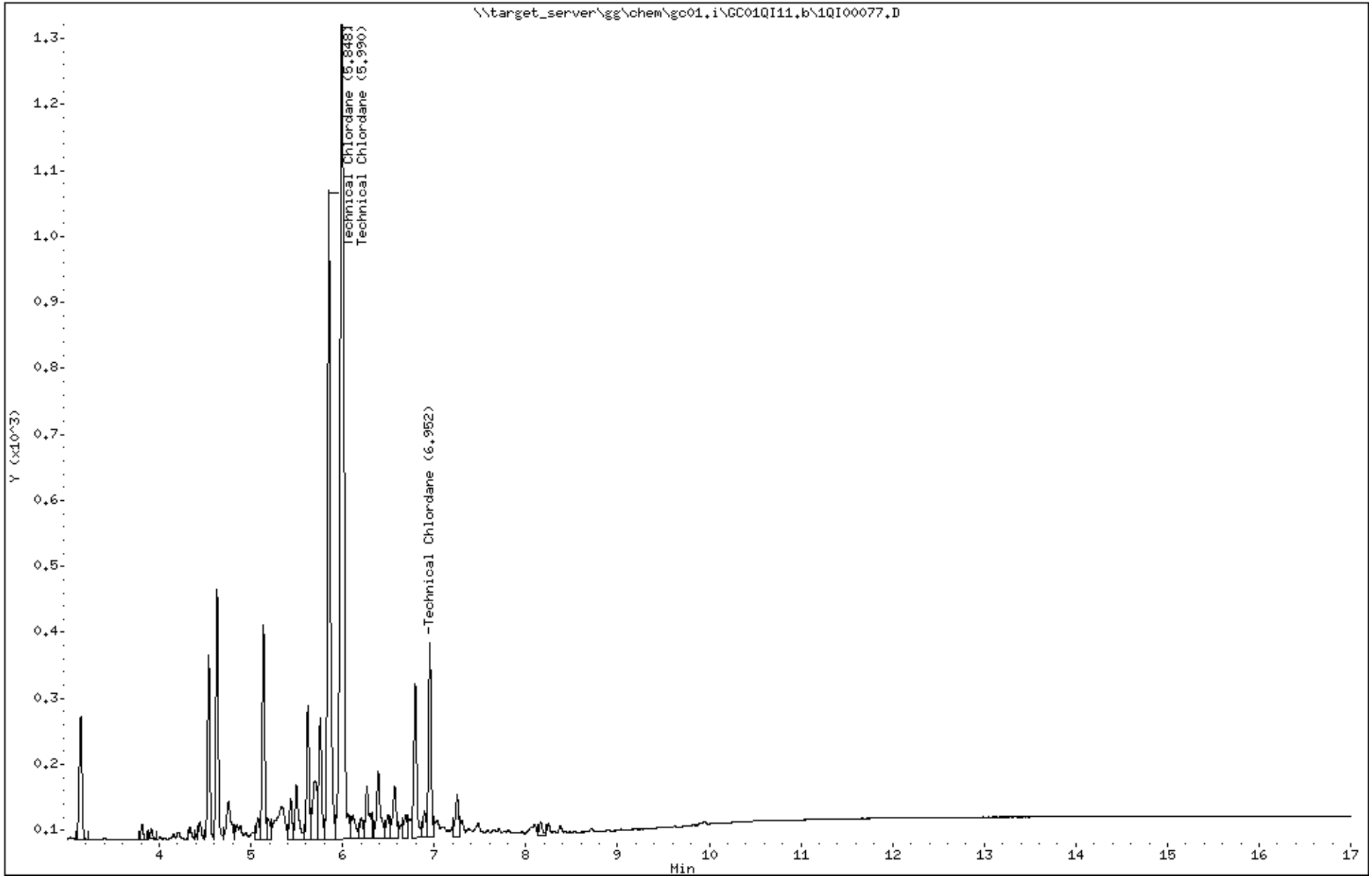
AD
12:48 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
5.848	5.848	0.000	984	0.25000	0.230	80.00- 120.00	100.00(M)	M5
5.988	5.990	-0.002	1233	0.25000	0.230	100.22- 150.34	125.30	M5
6.950	6.952	-0.002	295	0.25000	0.227	24.11- 36.17	29.98	M5
		Average of Peak Amounts =			0.22900			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00077.D
Date : 12-SEP-2023 13:50
Client ID:
Instrument: gc01.i
Sample Info: WG342487-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QI00077.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

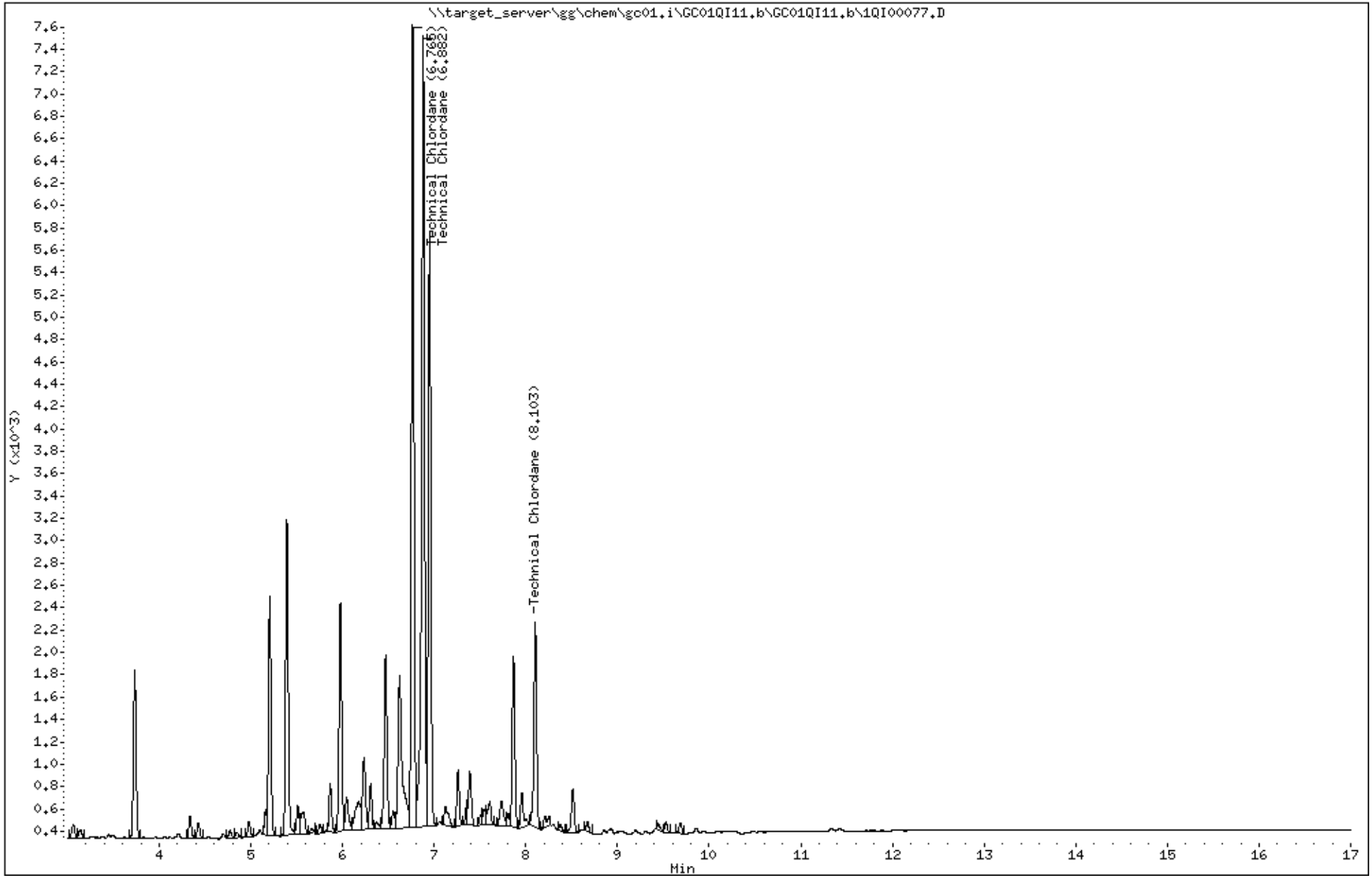
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00077.D
Lab Smp Id: TC 0.25
Inj Date : 12-SEP-2023 13:50
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-4
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 13:50   Cal File: 1QI00077.D
Als bottle: 5   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
6.764	6.765	-0.001	7185	0.25000	0.234	80.00- 120.00	100.00	
6.881	6.881	0.000	7078	0.25000	0.233	79.67- 119.51	98.51	
8.103	8.103	0.000	1841	0.25000	0.230	23.29- 34.93	25.62	
		Average of Peak Amounts =			0.23233			

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00077.D
Date : 12-SEP-2023 13:50
Client ID:
Instrument: gc01.i
Sample Info: WG342487-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00078.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00078.D
Lab Smp Id: TC 1.0
Inj Date : 12-SEP-2023 14:09
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-5
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 6   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

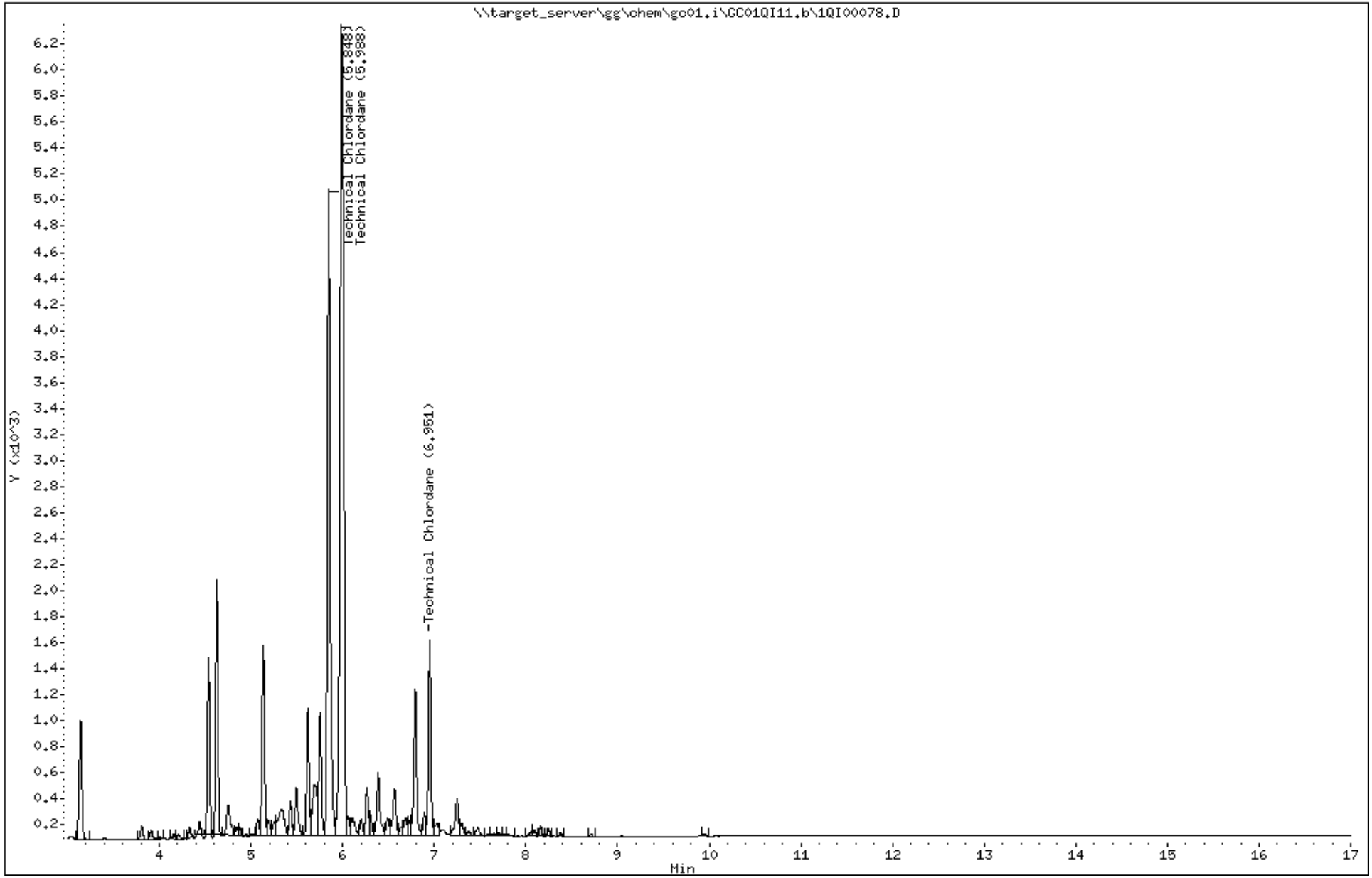
AD
12:51 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
5.847	5.848	-0.001	4973	1.00000	1.16	80.00- 120.00	100.00(M)	M5
5.987	5.990	-0.003	6230	1.00000	1.16	100.22- 150.34	125.28	M5
6.950	6.952	-0.002	1499	1.00000	1.15	24.11- 36.17	30.14	M5
		Average of Peak Amounts =			1.15667			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00078.D
Date : 12-SEP-2023 14:09
Client ID:
Instrument: gc01.i
Sample Info: WG342487-5
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QI00078.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

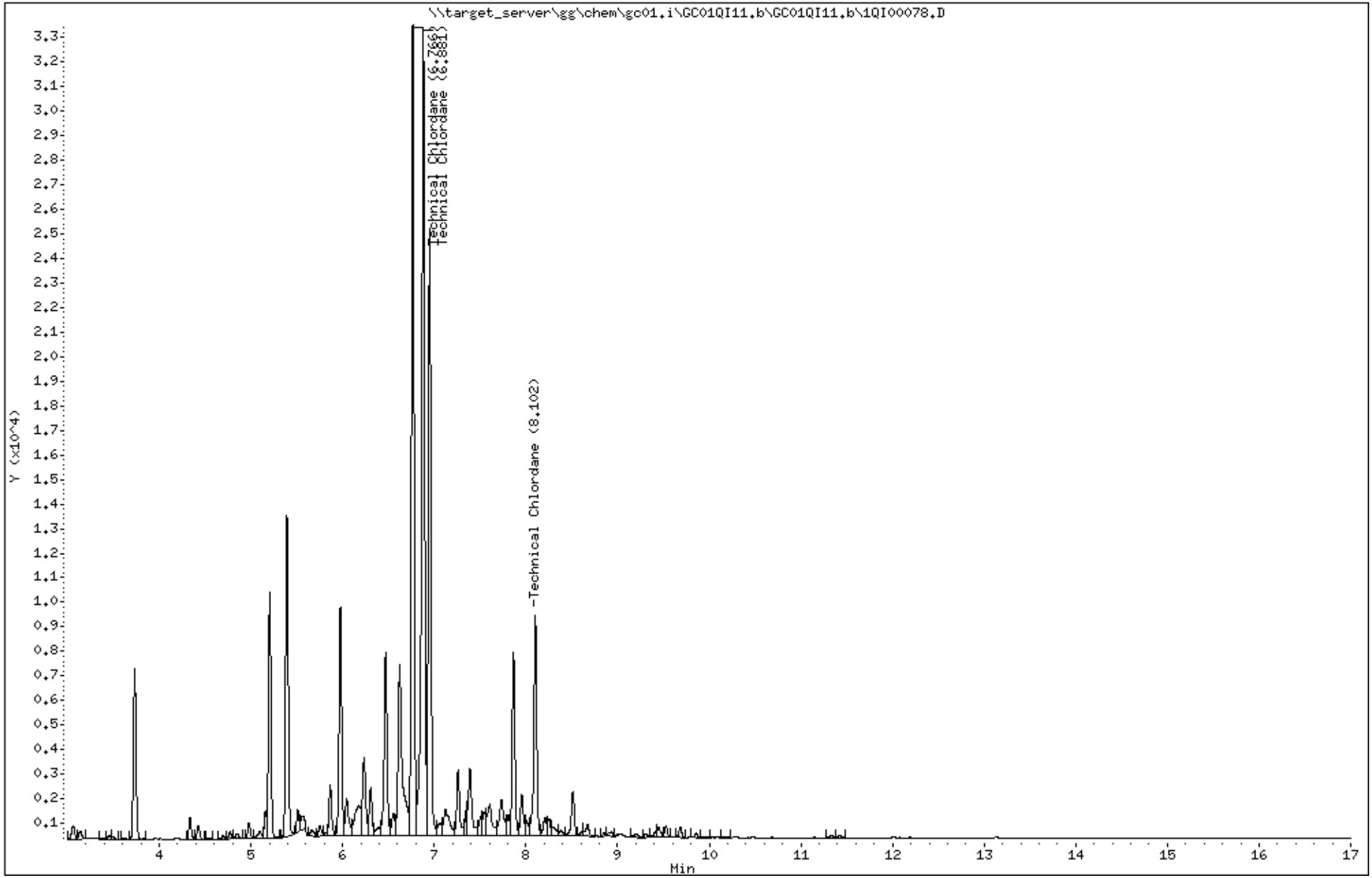
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00078.D
Lab Smp Id: TC 1.0
Inj Date : 12-SEP-2023 14:09
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-5
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 6   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

			AMOUNTS					
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
6.765	6.765	0.000	33009	1.00000	1.06	80.00- 120.00	100.00	
6.880	6.881	-0.001	32880	1.00000	1.06	79.67- 119.51	99.61	
8.102	8.103	-0.001	8924	1.00000	1.09	23.29- 34.93	27.04	
		Average of Peak Amounts =			1.07000			

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00078.D
Date : 12-SEP-2023 14:09
Client ID:
Instrument: gc01.i
Sample Info: WG342487-5
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00079.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

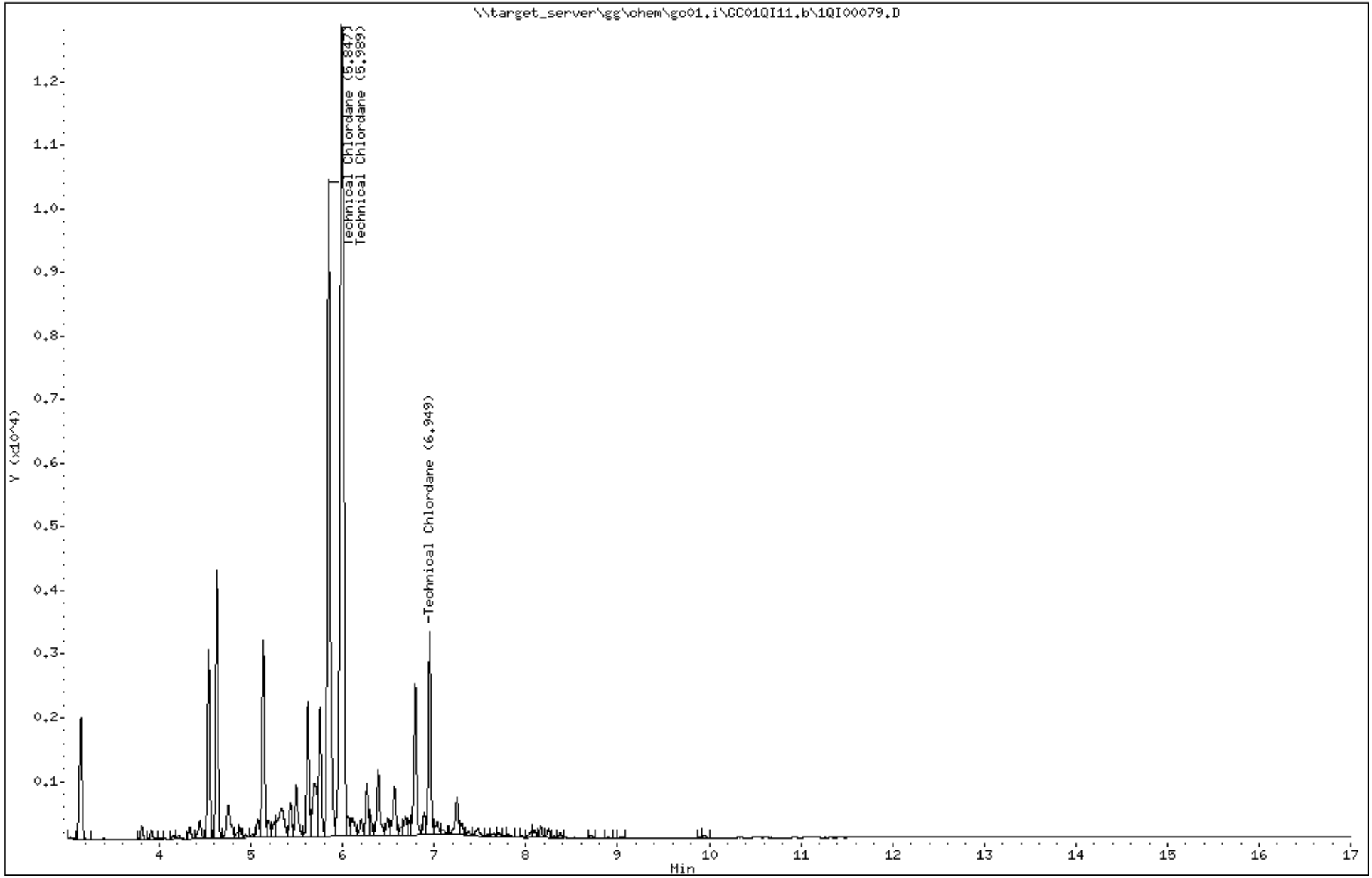
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00079.D
Lab Smp Id: TC 2.5
Inj Date : 12-SEP-2023 14:29
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-6
Misc Info : WG342487,WG342487,WG342487
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29   Cal File: 1QI00079.D
Als bottle: 7   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane						CAS #: 12789-03-6		
5.847	5.848	-0.001	10331	2.50000	2.44	80.00- 120.00	100.00	
5.988	5.990	-0.002	12753	2.50000	2.40	100.22- 150.34	123.44	
6.948	6.952	-0.004	3180	2.50000	2.52	24.11- 36.17	30.78	
		Average of Peak Amounts =			2.45333			

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00079.D
Date : 12-SEP-2023 14:29
Client ID:
Instrument: gc01.i
Sample Info: WG342487-6
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Data File: 1QI00079.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00079.D
Lab Smp Id: TC 2.5
Inj Date : 12-SEP-2023 14:29
Operator : AD Inst ID: gc01.i
Smp Info : WG342487-6
Misc Info : WG342487,WG342487,WG342487
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29 Cal File: 1QI00079.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TC.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

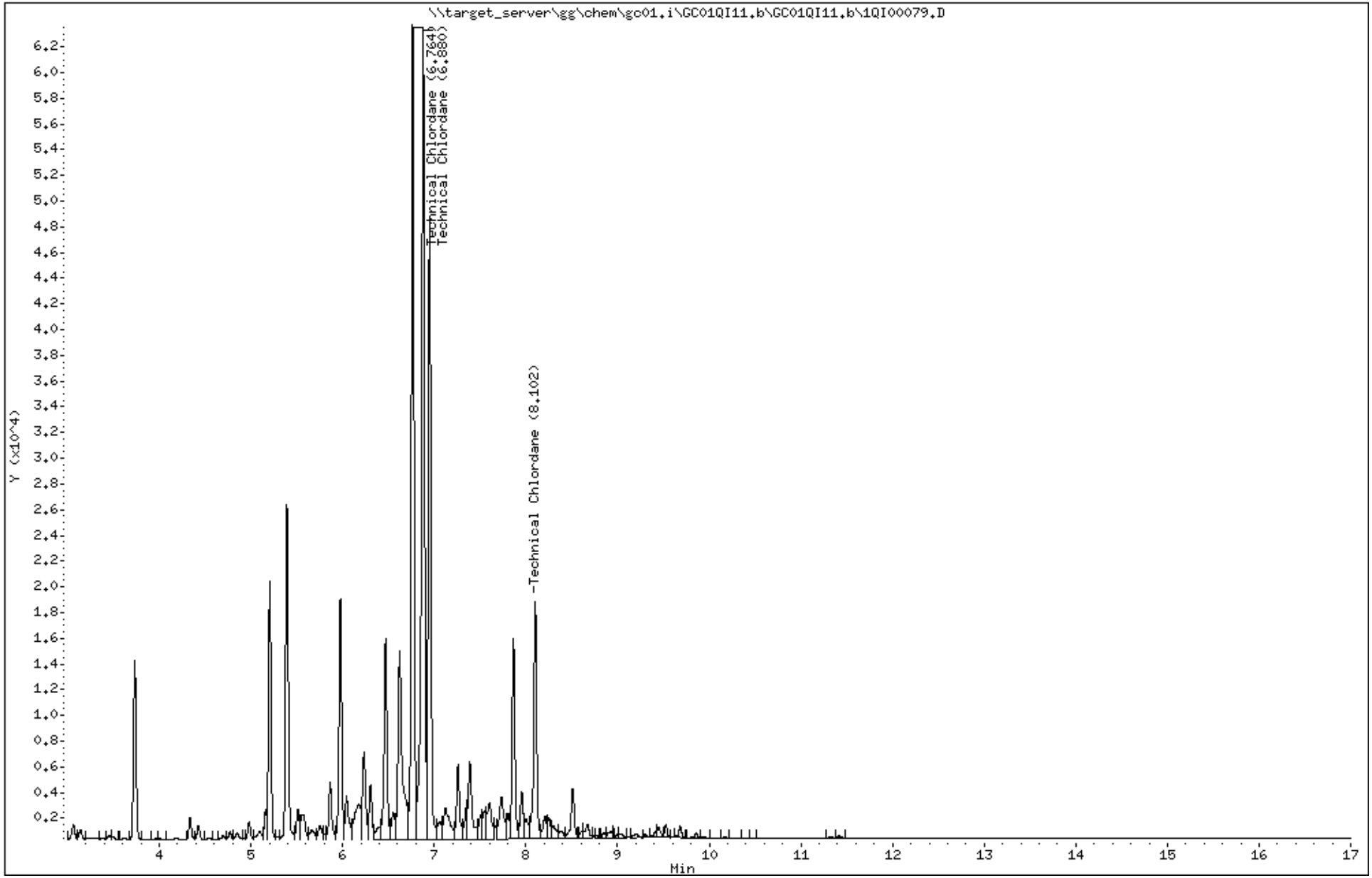
AD
12:51 pm, Sep 20, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
6.763	6.765	-0.002	63389	2.50000	2.10	80.00- 120.00	100.00(M)	M5
6.880	6.881	-0.001	63129	2.50000	2.11	79.67- 119.51	99.59	M5
8.101	8.103	-0.002	18451	2.50000	2.29	23.29- 34.93	29.11	M5
Average of Peak Amounts =					2.16667			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00079.D
Date : 12-SEP-2023 14:29
Client ID:
Instrument: gc01.i
Sample Info: WG342487-6
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00080.D
Report Date: 20-Sep-2023 12:03

Katahdin Analytical Services

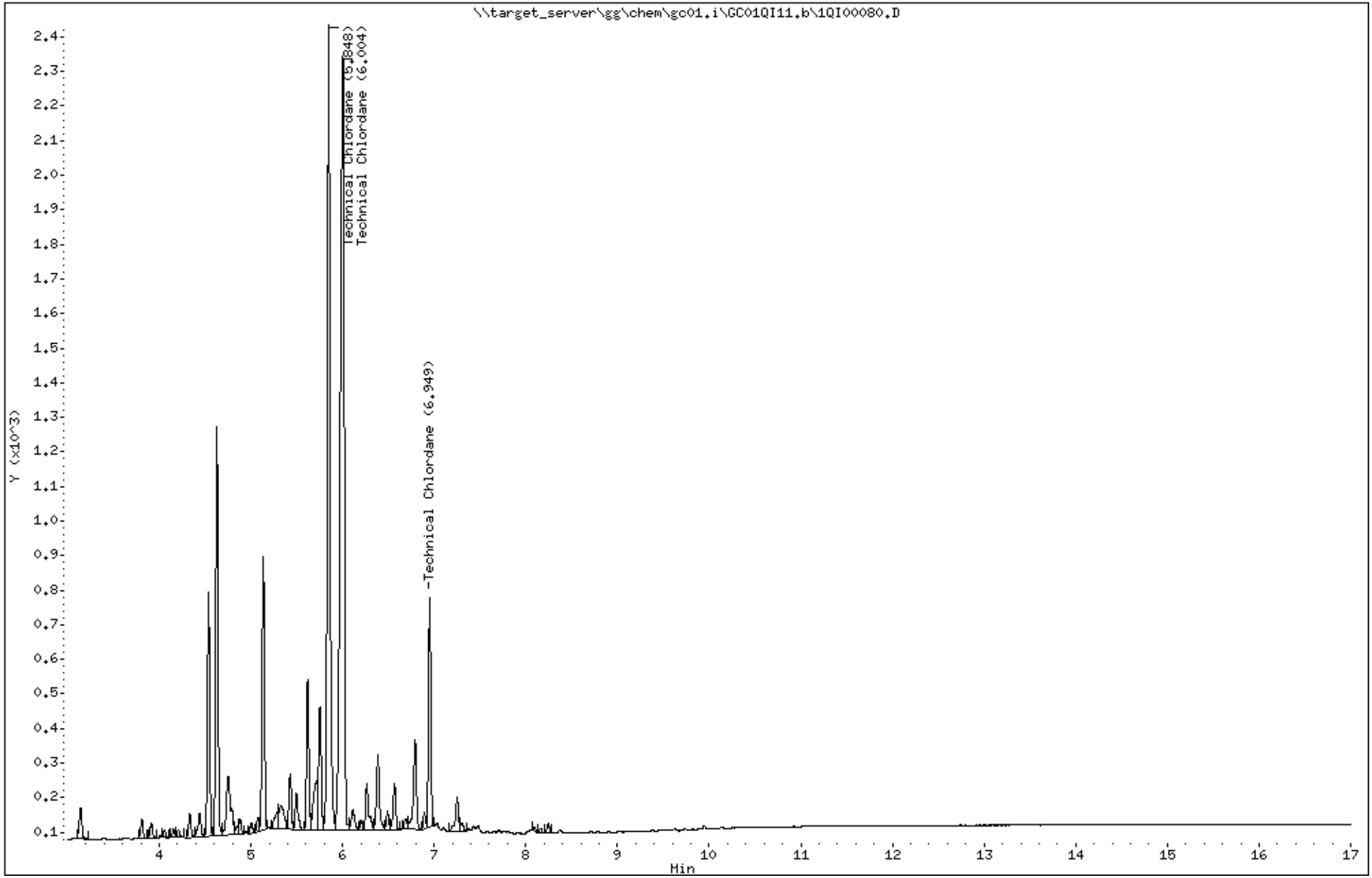
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00080.D
Lab Smp Id: TC IND 0.5
Inj Date : 12-SEP-2023 14:48
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-7
Misc Info : WG342487,WG342487,WG342487,SQ4875-3
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 8   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
5.847	5.848	-0.001	2328	0.54449	0.544	80.00- 120.00	100.00	
6.004	5.990	0.014	2239	0.41784	0.418	100.22- 150.34	96.18	
6.949	6.952	-0.003	663	0.50876	0.509	24.11- 36.17	28.48	
		Average of Peak Concentrations =			0.490			

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00080.D
Date : 12-SEP-2023 14:48
Client ID:
Instrument: gc01.i
Sample Info: WG342487-7
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QI00080.D
Report Date: 20-Sep-2023 12:04

Katahdin Analytical Services

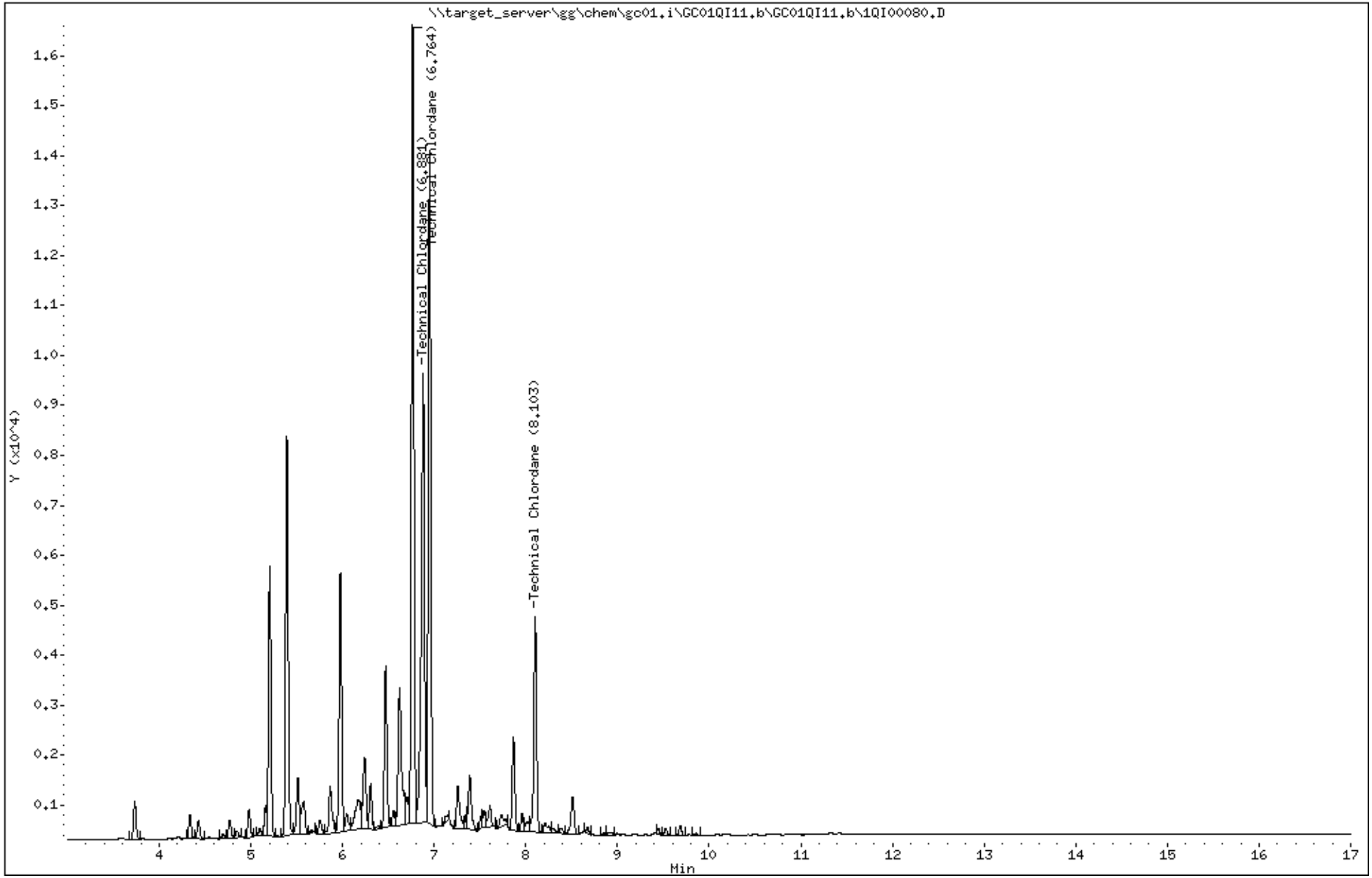
Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00080.D
Lab Smp Id: TC IND 0.5
Inj Date : 12-SEP-2023 14:48
Operator : AD   Inst ID: gc01.i
Smp Info : WG342487-7
Misc Info : WG342487,WG342487,WG342487,SQ4875-3
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29   Cal File: 1QI00079.D
Als bottle: 8   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/L)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane						CAS #: 12789-03-6		
6.764	6.765	-0.001	15994	0.52967	0.530	80.00- 120.00	100.00	
6.880	6.881	-0.001	8981	0.29962	0.300	79.67- 119.51	56.15	
8.102	8.103	-0.001	4298	0.53400	0.534	23.29- 34.93	26.87	
		Average of Peak Concentrations =			0.454			

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00080.D
Date : 12-SEP-2023 14:48
Client ID:
Instrument: gc01.i
Sample Info: WG342487-7
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343657-2
Analytical Date: 10/06/23 12:32
Lab File ID: 1QJ00034.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: A

Compound	RRF/Amount	RF0.050	CCAL RRF0.050	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
gamma-BHC	50232	49040	49040	0.001	-2.37299	20.000	Averaged	
Heptachlor	41717	42300	42300	0.001	1.39832	20.000	Averaged	
Heptachlor Epoxide	40015	36400	36400	0.001	-9.03487	20.000	Averaged	
4,4'-DDE	41119	37520	37520	0.001	-8.75264	20.000	Averaged	
Endrin	36740	31080	31080	0.001	-15.40479	20.000	Averaged	
4,4'-DDD	32912	29940	29940	0.001	-9.02922	20.000	Averaged	
4,4'-DDT	35180	30120	30120	0.001	-14.38236	20.000	Averaged	
Endrin Aldehyde	23977	21720	21720	0.001	-9.41319	20.000	Averaged	
Methoxychlor	18268	14800	14800	0.001	-18.98402	20.000	Averaged	
Endrin Ketone	30119	33060	33060	0.001	9.76582	20.000	Averaged	
Tetrachloro-m-Xylene	33357	32460	32460	0.001	-2.69006	20.000	Averaged	
Decachlorobiphenyl	29178	24900	24900	0.001	-14.66271	20.000	Averaged	

*** = Compound out of QC criteria**

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http://katahdinlab.com
sales@katahdinlab.com

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00034.D
Report Date: 01-Nov-2023 12:33

Katahdin Analytical Services

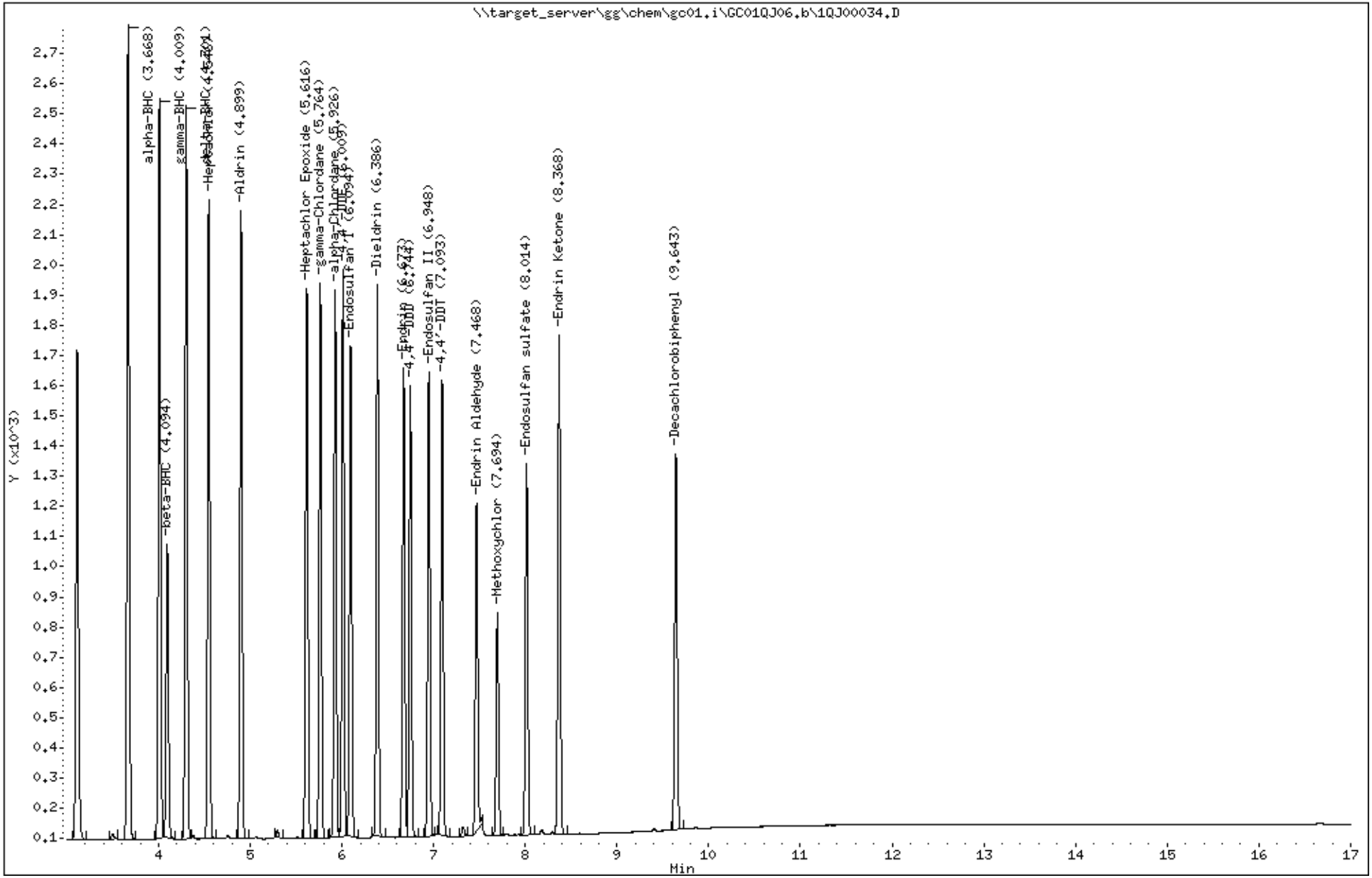
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Lab Smp Id: INDAB 0.05
Inj Date : 06-OCT-2023 12:32
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-2
Misc Info : WG343657,WG343657,WG342485-2,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 3   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.112	3.111	0.001	1623	0.05000	0.0486	
	5 alpha-BHC	3.667	3.666	0.001	2699	0.05000	0.0500	
	6 gamma-BHC	4.009	4.006	0.003	2452	0.05000	0.0488	
	7 beta-BHC	4.094	4.091	0.003	972	0.05000	0.0448	
	8 delta-BHC	4.301	4.298	0.003	2431	0.05000	0.0501	
	9 Heptachlor	4.546	4.543	0.003	2115	0.05000	0.0507	
	10 Aldrin	4.899	4.896	0.003	2081	0.05000	0.0473	
	13 Heptachlor Epoxide	5.616	5.611	0.005	1820	0.05000	0.0455	
	15 gamma-Chlordane	5.764	5.760	0.004	1839	0.05000	0.0455	
	17 alpha-Chlordane	5.926	5.921	0.005	1813	0.05000	0.0445	
	19 4,4'-DDE	6.009	6.006	0.003	1876	0.05000	0.0456	
	20 Endosulfan I	6.094	6.091	0.003	1624	0.05000	0.0453	
	21 Dieldrin	6.386	6.383	0.003	1830	0.05000	0.0465	
	23 Endrin	6.672	6.668	0.004	1554	0.05000	0.0423	
	24 4,4'-DDD	6.744	6.741	0.003	1497	0.05000	0.0455	
	26 Endosulfan II	6.947	6.945	0.002	1541	0.05000	0.0459	
	27 4,4'-DDT	7.092	7.088	0.004	1506	0.05000	0.0428	
	28 Endrin Aldehyde	7.467	7.465	0.002	1086	0.05000	0.0453	
	29 Methoxychlor	7.694	7.691	0.003	740	0.05000	0.0405	
	32 Endosulfan sulfate	8.014	8.010	0.004	1233	0.05000	0.0557	
	33 Endrin Ketone	8.367	8.365	0.002	1653	0.05000	0.0549	
$	34 Decachlorobiphenyl	9.642	9.638	0.004	1245	0.05000	0.0427	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00034.D
Date : 06-OCT-2023 12:32
Client ID:
Instrument: gc01.i
Sample Info: WG343657-2
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343657-2
Analytical Date: 10/06/23 12:32
Lab File ID: 1QJ00034.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: B

Compound	RRF/Amount	RF0.050	CCAL RRF0.050	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
gamma-BHC	357523	323780	323780	0.001	-9.43791	20.000	Averaged	
Heptachlor	272287	253600	253600	0.001	-6.86287	20.000	Averaged	
Heptachlor Epoxide	268124	238180	238180	0.001	-11.16797	20.000	Averaged	
4,4'-DDE	273505	239580	239580	0.001	-12.40380	20.000	Averaged	
Endrin	232453	194520	194520	0.001	-16.31869	20.000	Averaged	
4,4'-DDD	219364	197580	197580	0.001	-9.93039	20.000	Averaged	
4,4'-DDT	226090	192140	192140	0.001	-15.01614	20.000	Averaged	
Endrin Aldehyde	147961	133280	133280	0.001	-9.92201	20.000	Averaged	
Methoxychlor	112050	93140	93140	0.001	-16.87615	20.000	Averaged	
Endrin Ketone	179781	194260	194260	0.001	8.05369	20.000	Averaged	
Tetrachloro-m-Xylene	247878	226160	226160	0.001	-8.76145	20.000	Averaged	
Decachlorobiphenyl	138186	120920	120920	0.001	-12.49496	20.000	Averaged	

*** = Compound out of QC criteria**

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Data File: 1QJ00034.D
Report Date: 01-Nov-2023 12:33

Katahdin Analytical Services

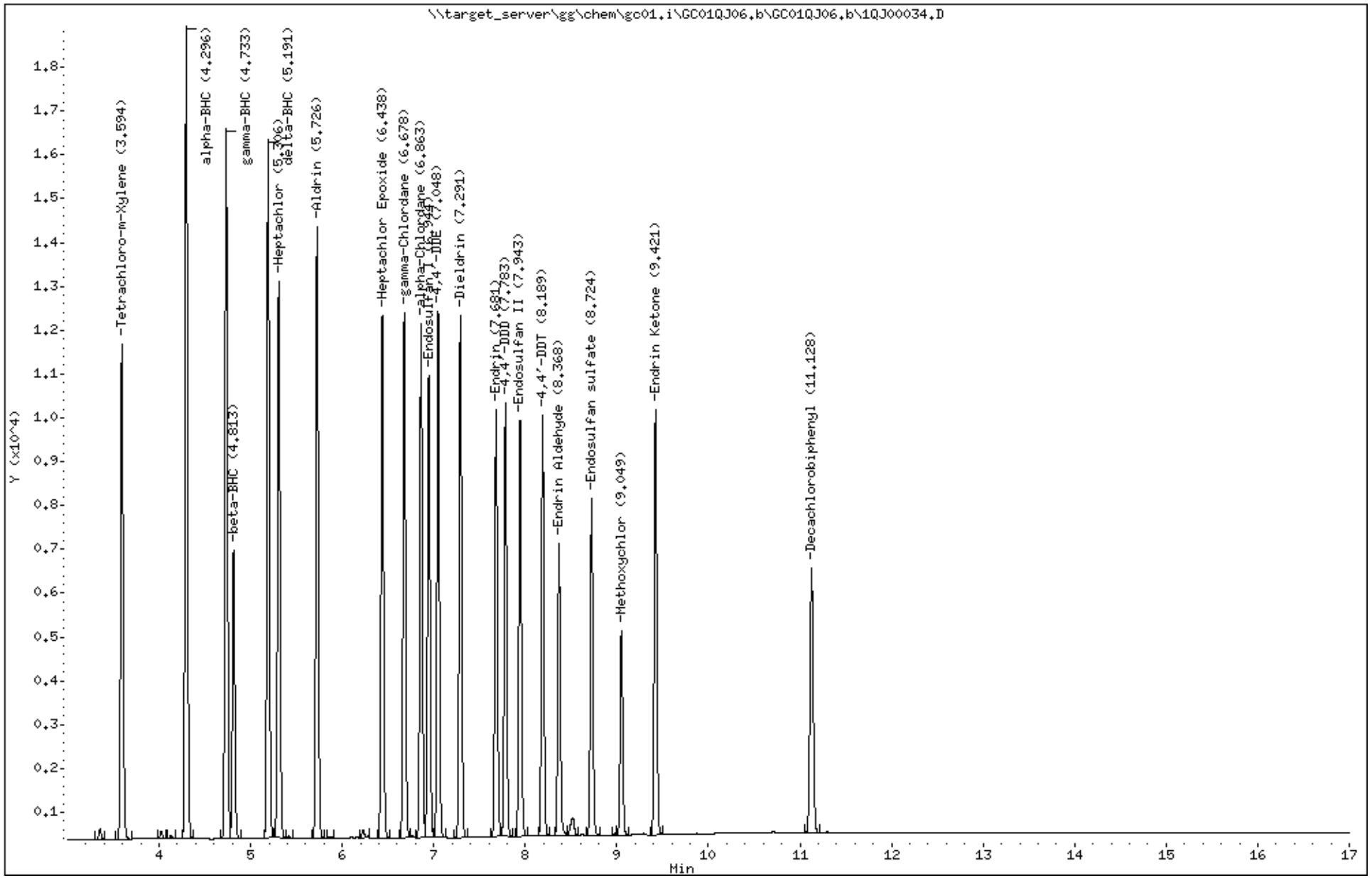
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Lab Smp Id: INDAB 0.05
Inj Date : 06-OCT-2023 12:32
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-2
Misc Info : WG343657,WG343657,WG342485-2,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29   Cal File: 1QI00079.D
Als bottle: 3   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)	REVIEW CODE
$ 4	Tetrachloro-m-Xylene	3.594	3.591	0.003	11308	0.05000	0.0456	
5	alpha-BHC	4.295	4.293	0.002	18537	0.05000	0.0463	
6	gamma-BHC	4.732	4.728	0.004	16189	0.05000	0.0453	
7	beta-BHC	4.812	4.809	0.003	6582	0.05000	0.0434	
8	delta-BHC	5.190	5.188	0.002	15943	0.05000	0.0477	
9	Heptachlor	5.305	5.303	0.002	12680	0.05000	0.0466	
10	Aldrin	5.725	5.723	0.002	13955	0.05000	0.0457	
13	Heptachlor Epoxide	6.437	6.433	0.004	11909	0.05000	0.0444	
15	gamma-Chlordane	6.677	6.673	0.004	11961	0.05000	0.0435	
17	alpha-Chlordane	6.862	6.858	0.004	11705	0.05000	0.0443	
19	4,4'-DDE	7.047	7.044	0.003	11979	0.05000	0.0438	
20	Endosulfan I	6.944	6.941	0.003	10529	0.05000	0.0443	
21	Dieldrin	7.290	7.288	0.002	11899	0.05000	0.0445	
23	Endrin	7.680	7.678	0.002	9726	0.05000	0.0418	
24	4,4'-DDD	7.782	7.779	0.003	9879	0.05000	0.0450	
26	Endosulfan II	7.942	7.939	0.003	9482	0.05000	0.0440	
27	4,4'-DDT	8.189	8.186	0.003	9607	0.05000	0.0425	
28	Endrin Aldehyde	8.367	8.363	0.004	6664	0.05000	0.0450	
29	Methoxychlor	9.049	9.044	0.005	4657	0.05000	0.0416	
32	Endosulfan sulfate	8.724	8.719	0.005	7686	0.05000	0.0548	
33	Endrin Ketone	9.420	9.418	0.002	9713	0.05000	0.0540	
$ 34	Decachlorobiphenyl	11.127	11.119	0.008	6046	0.05000	0.0438	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00034.D
Date : 06-OCT-2023 12:32
Client ID:
Instrument: gc01.i
Sample Info: WG343657-2
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343657-3
Analytical Date: 10/06/23 15:13
Lab File ID: 1QJ00035.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: A

Compound	RRF/Amount	RF0.050	CCAL RRF0.050	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Toxaphene(1)	223	194	194	0.001	-13.07595	20.000	Averaged	
Toxaphene(2)	376	316	316	0.001	-16.00213	20.000	Averaged	
Toxaphene(3)	382	343	343	0.001	-10.13885	20.000	Averaged	
Toxaphene(4)	586	525	525	0.001	-10.45540	20.000	Averaged	
Toxaphene(5)	709	617	617	0.001	-12.93099	20.000	Averaged	
Toxaphene(6)	725	645	645	0.001	-11.07332	20.000	Averaged	
Toxaphene(7)	889	801	801	0.001	-9.87849	20.000	Averaged	
Toxaphene(8)	653	593	593	0.001	-9.17213	20.000	Averaged	
Toxaphene(9)	652	575	575	0.001	-11.85488	20.000	Averaged	

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00035.D
Report Date: 01-Nov-2023 12:33

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00035.D
Lab Smp Id: TOX 1.0
Inj Date : 06-OCT-2023 15:13
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-3
Misc Info : WG343657,WG343657,WG342486,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 1   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

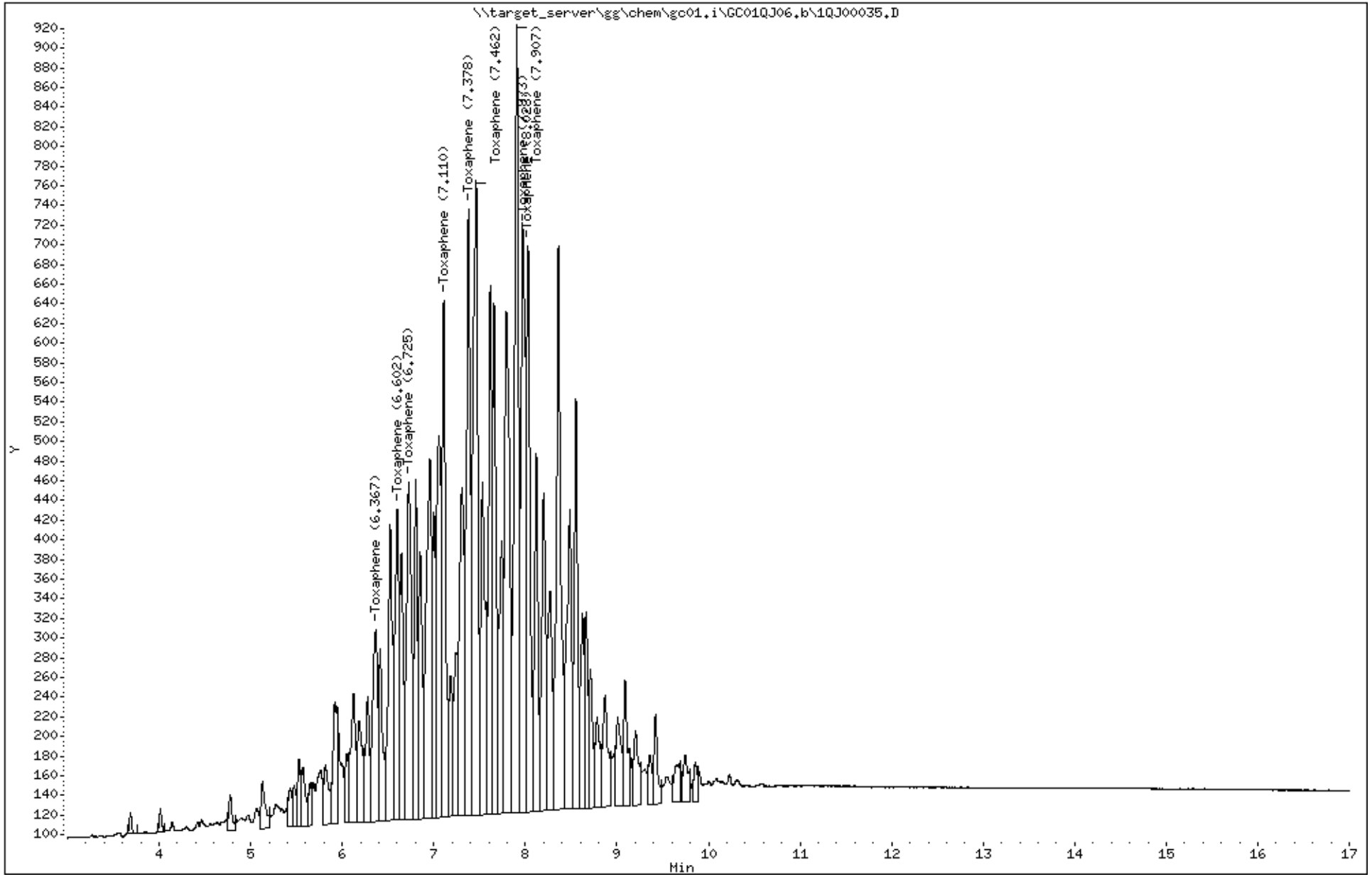
AD
2:09 pm, Nov 01, 2023

RT	EXP RT	DLT RT	AMOUNTS RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
6.365	6.387	-0.022	194	1.00000	0.869	80.00- 120.00	100.00(M)	M5
6.600	6.619	-0.019	316	1.00000	0.840	117.33- 176.00	162.89	M5
6.723	6.699	0.024	343	1.00000	0.899	152.89- 229.33	176.80	M5
7.108	7.085	0.023	525	1.00000	0.895	222.22- 333.33	270.62	M5
7.378	7.355	0.023	617	1.00000	0.871	256.89- 385.33	318.04	M5
7.461	7.437	0.024	645	1.00000	0.889	256.00- 384.00	332.47	M5
7.906	7.884	0.022	801	1.00000	0.901	327.11- 490.67	412.89	M5
7.973	7.947	0.026	593	1.00000	0.908	224.89- 337.33	305.67	M5
8.028	8.005	0.023	575	1.00000	0.881	217.78- 326.67	296.39	M5
		Average of Peak Amounts =			0.88367			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00035.D
Date : 06-OCT-2023 15:13
Client ID:
Instrument: gc01.i
Sample Info: WG343657-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343657-3
Analytical Date: 10/06/23 15:13
Lab File ID: 1QJ00035.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: B

Compound	RRF/Amount	RF0.050	CCAL RRF0.050	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Toxaphene(1)	2226	2007	2007	0.001	-9.84435	20.000	Averaged	
Toxaphene(2)	1873	1665	1665	0.001	-11.10834	20.000	Averaged	
Toxaphene(3)	2488	2098	2098	0.001	-15.66168	20.000	Averaged	
Toxaphene(4)	2612	2319	2319	0.001	-11.23105	20.000	Averaged	
Toxaphene(5)	2742	2390	2390	0.001	-12.85218	20.000	Averaged	
Toxaphene(6)	4785	4255	4255	0.001	-11.07628	20.000	Averaged	
Toxaphene(7)	5460	4925	4925	0.001	-9.79330	20.000	Averaged	
Toxaphene(8)	3457	3073	3073	0.001	-11.11990	20.000	Averaged	
Toxaphene(9)	3264	2934	2934	0.001	-10.10616	20.000	Averaged	

*** = Compound out of QC criteria**

Data File: 1QJ00035.D
Report Date: 01-Nov-2023 12:33

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00035.D
Lab Smp Id: TOX 1.0
Inj Date : 06-OCT-2023 15:13
Operator : AD Inst ID: gc01.i
Smp Info : WG343657-3
Misc Info : WG343657,WG343657,WG342486,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29 Cal File: 1QI00079.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Tox.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

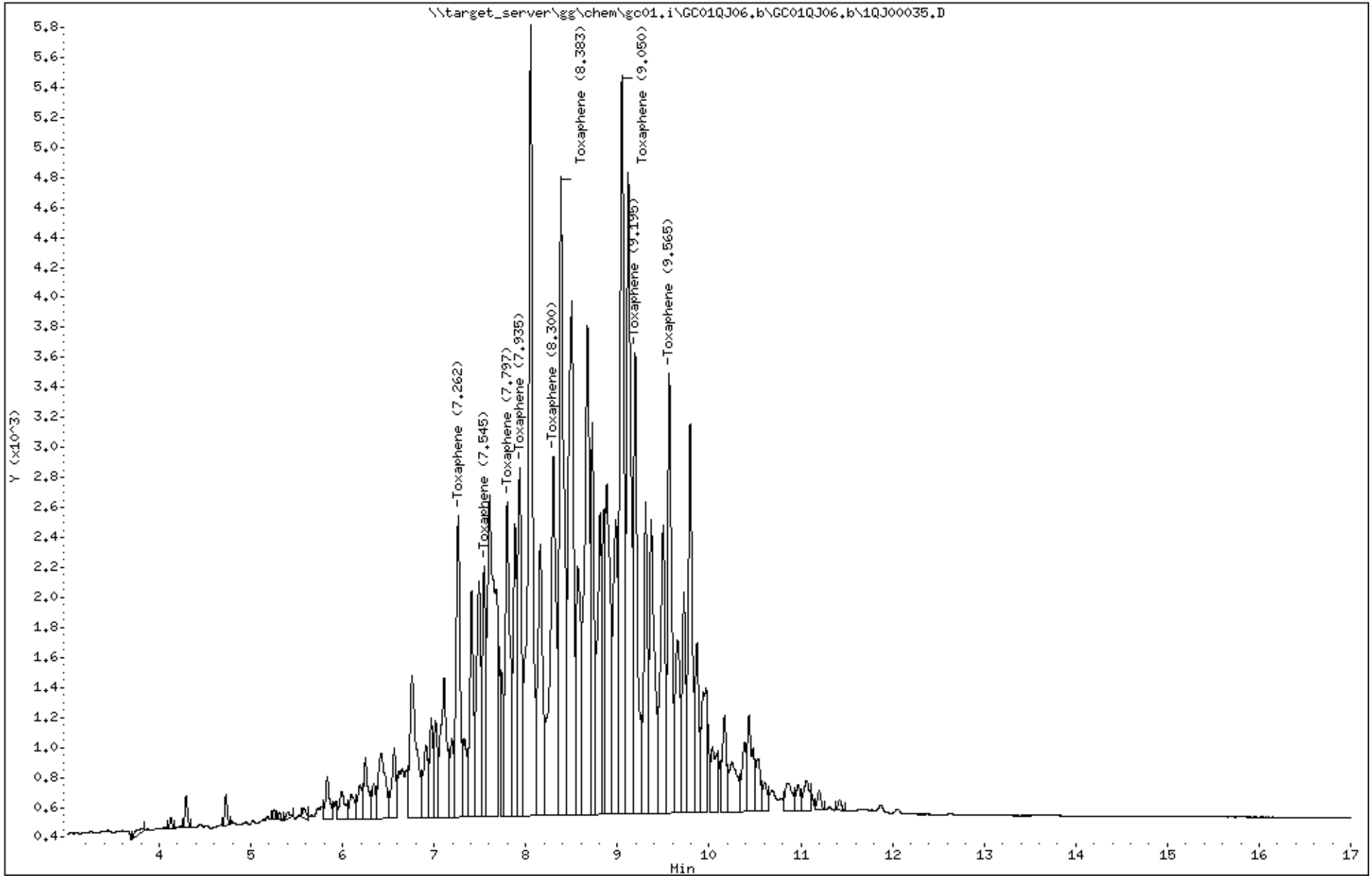
AD
2:10 pm, Nov 01, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
7.261	7.255	0.006	2007	1.00000	0.902	80.00- 120.00	100.00(M)	M5
7.544	7.539	0.005	1665	1.00000	0.889	68.25- 102.38	82.96	M5
7.796	7.789	0.007	2098	1.00000	0.843	78.31- 117.47	104.53	M5
7.934	7.927	0.007	2319	1.00000	0.888	86.37- 129.56	115.55	M5
8.299	8.292	0.007	2390	1.00000	0.871	88.37- 132.55	119.08	M5
8.383	8.375	0.008	4255	1.00000	0.889	157.54- 236.31	212.01	M5
9.049	9.042	0.007	4925	1.00000	0.902	173.13- 259.69	245.39	M5
9.194	9.185	0.009	3073	1.00000	0.889	106.33- 159.50	153.11	M5
9.564	9.557	0.007	2934	1.00000	0.899	102.11- 153.17	146.19	M5
Average of Peak Amounts =					0.88578			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00035.D
Date : 06-OCT-2023 15:13
Client ID:
Instrument: gc01.i
Sample Info: WG343657-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Katahdin Analytical Services SQ5108 Page 368 of 640

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343657-4
Analytical Date: 10/06/23 15:32
Lab File ID: 1QJ00036.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: A

Compound	RRF/Amount	RF0.050	CCAL RRF0.050	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Technical Chlordane(1)	4276	3862	3862	0.001	-9.67279	20.000	Averaged	
Technical Chlordane(2)	5359	4896	4896	0.001	-8.63172	20.000	Averaged	
Technical Chlordane(3)	1303	1148	1148	0.001	-11.90689	20.000	Averaged	

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00036.D
Report Date: 01-Nov-2023 12:33

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00036.D
Lab Smp Id: TC 0.5
Inj Date : 06-OCT-2023 15:32
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-4
Misc Info : WG343657,WG343657,WG342487,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 2   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

AD

2:10 pm, Nov 01, 2023

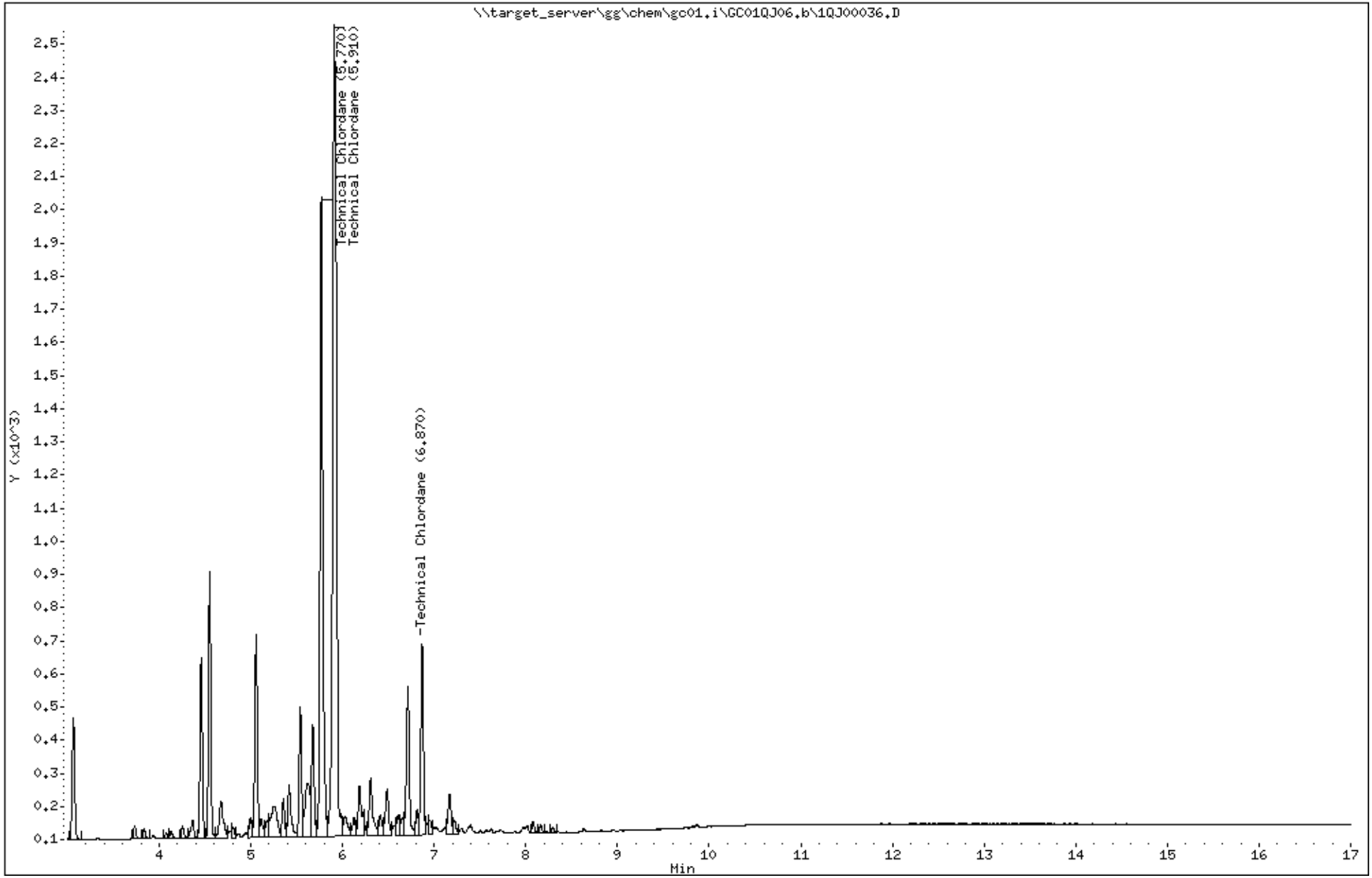
AMOUNTS

RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
5.768	5.760	0.008	1931	0.50000	0.452	80.00- 120.00	100.00(M)	M5
5.909	5.901	0.008	2448	0.50000	0.457	101.50- 152.24	126.77	M5
6.869	6.860	0.009	574	0.50000	0.440	22.80- 34.19	29.73	M5
Average of Peak Amounts =					0.44967			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00036.D
Date : 06-OCT-2023 15:32
Client ID:
Instrument: gc01.i
Sample Info: WG343657-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Katahdin Analytical Services SQ5108 Page 371 of 640

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343657-4
Analytical Date: 10/06/23 15:32
Lab File ID: 1QJ00036.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: B

Compound	RRF/Amount	RF0.050	CCAL RRF0.050	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Technical Chlordane(1)	30196	26936	26936	0.001	-10.79741	20.000	Averaged	
Technical Chlordane(2)	29974	26794	26794	0.001	-10.60999	20.000	Averaged	
Technical Chlordane(3)	8049	6970	6970	0.001	-13.40252	20.000	Averaged	

*** = Compound out of QC criteria**

Data File: 1QJ00036.D
Report Date: 01-Nov-2023 12:34

Katahdin Analytical Services

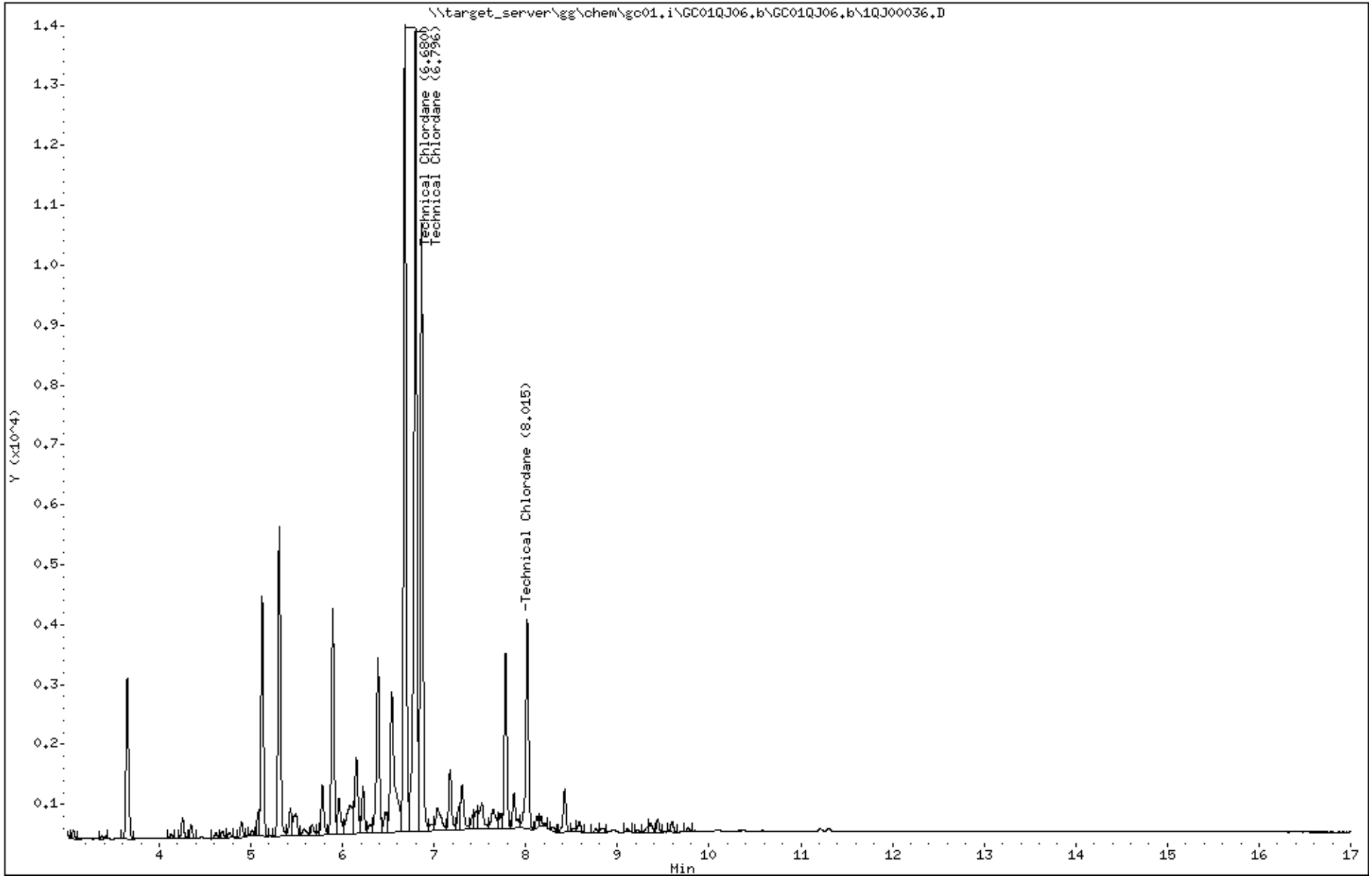
Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00036.D
Lab Smp Id: TC 0.5
Inj Date : 06-OCT-2023 15:32
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-4
Misc Info : WG343657,WG343657,WG342487,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29   Cal File: 1QI00079.D
Als bottle: 2   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS					
RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
6.679	6.673	0.006	13468	0.50000	0.446	80.00- 120.00	100.00	
6.796	6.790	0.006	13397	0.50000	0.447	77.28- 115.91	99.47	
8.014	8.008	0.006	3485	0.50000	0.433	19.41- 29.11	25.88	
Average of Peak Amounts =					0.44200			

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00036.D
Date : 06-OCT-2023 15:32
Client ID:
Instrument: gc01.i
Sample Info: WG343657-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Katahdin Analytical Services SQ5108 Page 374 of 640

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343657-5
Analytical Date: 10/06/23 20:25
Lab File ID: 1QJ00051.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: A

Compound	RRF/Amount	RF0.025	CCAL RRF0.025	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
gamma-BHC	50232	45400	45400	0.001	-9.61937	20.000	Averaged	
Heptachlor	41717	39880	39880	0.001	-4.40272	20.000	Averaged	
Heptachlor Epoxide	40015	35200	35200	0.001	-12.03372	20.000	Averaged	
4,4'-DDE	41119	35680	35680	0.001	-13.22746	20.000	Averaged	
Endrin	36740	27800	27800	0.001	-24.33247	20.000	Averaged	*
4,4'-DDD	32912	29240	29240	0.001	-11.15612	20.000	Averaged	
4,4'-DDT	35180	24520	24520	0.001	-30.30065	20.000	Averaged	*
Endrin Aldehyde	23977	21600	21600	0.001	-9.91367	20.000	Averaged	
Methoxychlor	18268	13120	13120	0.001	-28.18042	20.000	Averaged	*
Endrin Ketone	30119	32720	32720	0.001	8.63695	20.000	Averaged	
Tetrachloro-m-Xylene	33357	30160	30160	0.001	-9.58510	20.000	Averaged	
Decachlorobiphenyl	29178	24960	24960	0.001	-14.45707	20.000	Averaged	

*** = Compound out of QC criteria**

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
http://katahdinlab.com
sales@katahdinlab.com

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00051.D
Report Date: 01-Nov-2023 12:33

Katahdin Analytical Services

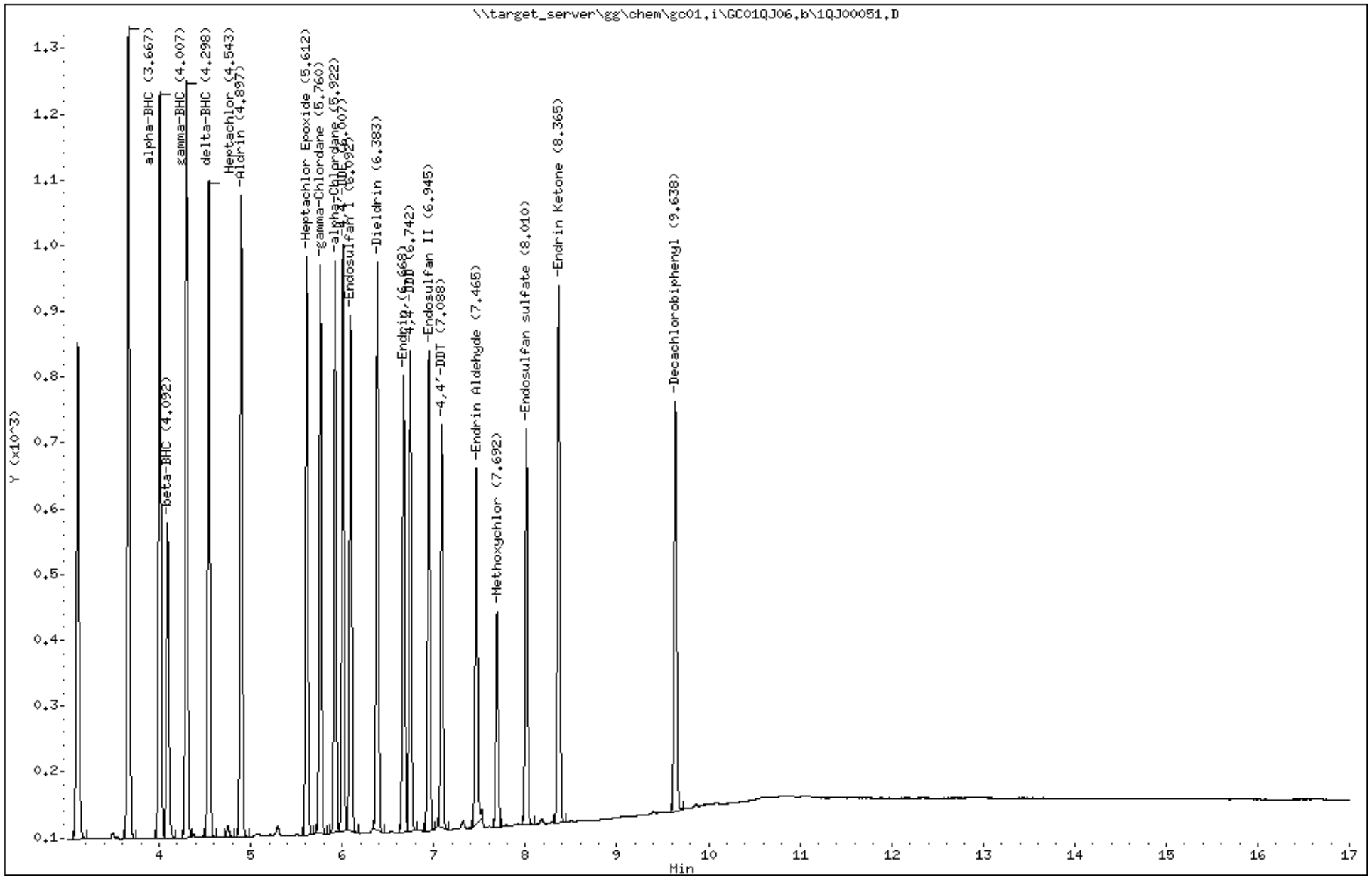
Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00051.D
Lab Smp Id: INDAB 0.025
Inj Date : 06-OCT-2023 20:25
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-5
Misc Info : WG343657,WG343657,WG342485-2,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 16   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	REVIEW CODE
$	4 Tetrachloro-m-Xylene	3.111	3.111	0.000	754	0.05000	0.0226	
	5 alpha-BHC	3.666	3.666	0.000	1235	0.05000	0.0229	
	6 gamma-BHC	4.006	4.006	0.000	1135	0.05000	0.0226	
	7 beta-BHC	4.091	4.091	0.000	480	0.05000	0.0221	
	8 delta-BHC	4.298	4.298	0.000	1151	0.05000	0.0237	
	9 Heptachlor	4.543	4.543	0.000	997	0.05000	0.0239	
	10 Aldrin	4.896	4.896	0.000	975	0.05000	0.0222	
	13 Heptachlor Epoxide	5.611	5.611	0.000	880	0.05000	0.0220	
	15 gamma-Chlordane	5.760	5.760	0.000	864	0.05000	0.0214	
	17 alpha-Chlordane	5.921	5.921	0.000	869	0.05000	0.0214	
	19 4,4'-DDE	6.006	6.006	0.000	892	0.05000	0.0217	
	20 Endosulfan I	6.091	6.091	0.000	784	0.05000	0.0219	
	21 Dieldrin	6.383	6.383	0.000	863	0.05000	0.0219	
	23 Endrin	6.668	6.668	0.000	695	0.05000	0.0189	
	24 4,4'-DDD	6.741	6.741	0.000	731	0.05000	0.0222	
	26 Endosulfan II	6.945	6.945	0.000	729	0.05000	0.0217	
	27 4,4'-DDT	7.088	7.088	0.000	613	0.05000	0.0174	
	28 Endrin Aldehyde	7.465	7.465	0.000	540	0.05000	0.0225	
	29 Methoxychlor	7.691	7.691	0.000	328	0.05000	0.0180	
	32 Endosulfan sulfate	8.010	8.010	0.000	602	0.05000	0.0272	
	33 Endrin Ketone	8.365	8.365	0.000	818	0.05000	0.0272	
$	34 Decachlorobiphenyl	9.638	9.638	0.000	624	0.05000	0.0214	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00051.D
Date : 06-OCT-2023 20:25
Client ID:
Instrument: gc01.i
Sample Info: WG343657-5
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343657-5
Analytical Date: 10/06/23 20:25
Lab File ID: 1QJ00051.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: B

Compound	RRF/Amount	RF0.025	CCAL RRF0.025	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
gamma-BHC	357523	314760	314760	0.001	-11.96083	20.000	Averaged	
Heptachlor	272287	267400	267400	0.001	-1.79468	20.000	Averaged	
Heptachlor Epoxide	268124	232800	232800	0.001	-13.17450	20.000	Averaged	
4,4'-DDE	273505	227840	227840	0.001	-16.69622	20.000	Averaged	
Endrin	232453	172160	172160	0.001	-25.93782	20.000	Averaged	*
4,4'-DDD	219364	192880	192880	0.001	-12.07295	20.000	Averaged	
4,4'-DDT	226090	163280	163280	0.001	-27.78097	20.000	Averaged	*
Endrin Aldehyde	147961	129280	129280	0.001	-12.62543	20.000	Averaged	
Methoxychlor	112050	78480	78480	0.001	-29.95963	20.000	Averaged	*
Endrin Ketone	179781	190120	190120	0.001	5.75089	20.000	Averaged	
Tetrachloro-m-Xylene	247878	218120	218120	0.001	-12.00498	20.000	Averaged	
Decachlorobiphenyl	138186	118400	118400	0.001	-14.31859	20.000	Averaged	

*** = Compound out of QC criteria**

Data File: 1QJ00051.D
Report Date: 01-Nov-2023 12:34

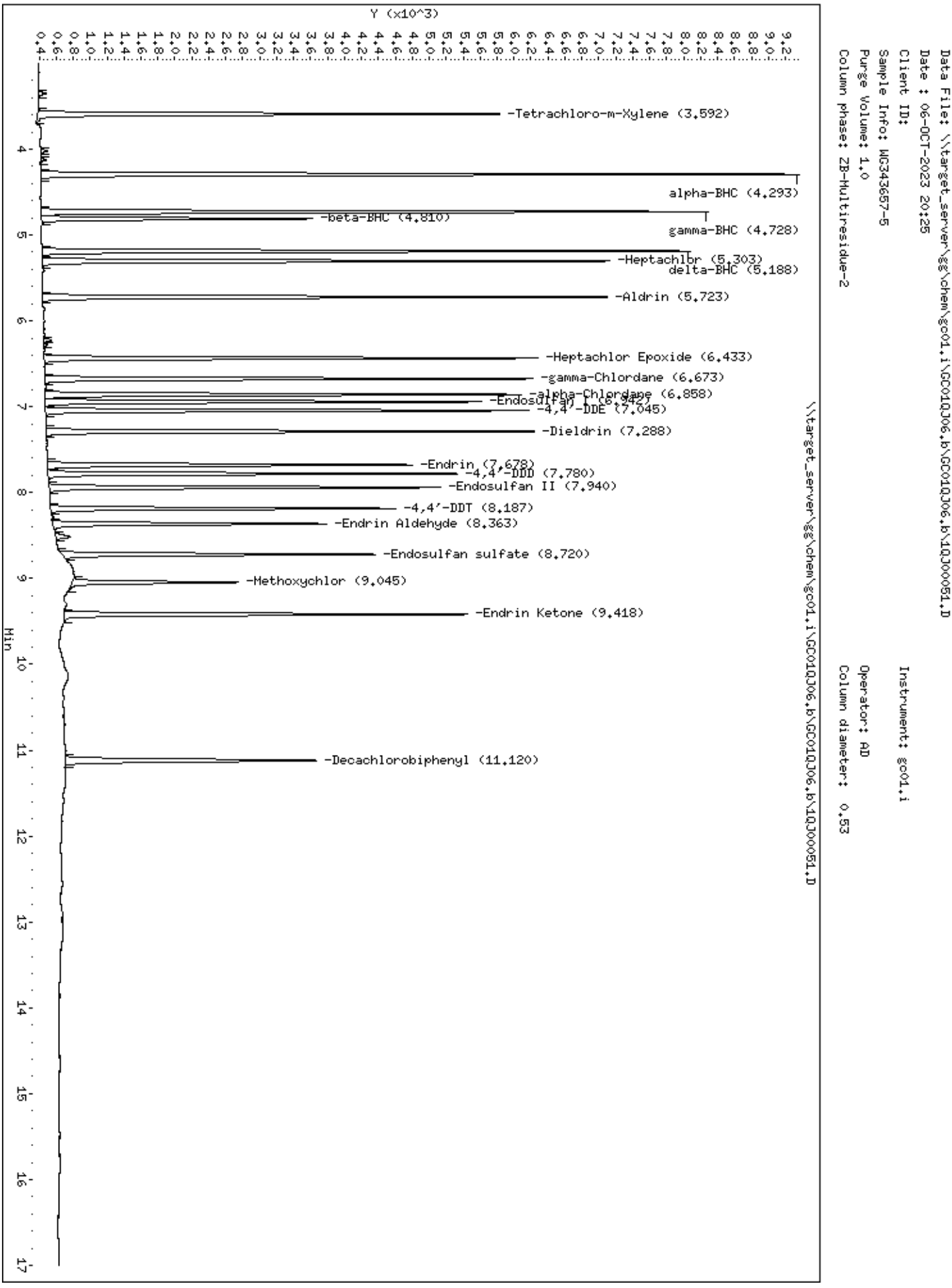
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00051.D
Lab Smp Id: INDAB 0.025
Inj Date : 06-OCT-2023 20:25
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-5
Misc Info : WG343657,WG343657,WG342485-2,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29   Cal File: 1QI00079.D
Als bottle: 16   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)	REVIEW CODE
$ 4	Tetrachloro-m-Xylene	3.591	3.591	0.000	5453	0.05000	0.0220	
5	alpha-BHC	4.293	4.293	0.000	8951	0.05000	0.0224	
6	gamma-BHC	4.728	4.728	0.000	7869	0.05000	0.0220	
7	beta-BHC	4.809	4.809	0.000	3201	0.05000	0.0211	
8	delta-BHC	5.188	5.188	0.000	7650	0.05000	0.0229	
9	Heptachlor	5.303	5.303	0.000	6685	0.05000	0.0246	
10	Aldrin	5.723	5.723	0.000	6662	0.05000	0.0218	
13	Heptachlor Epoxide	6.433	6.433	0.000	5820	0.05000	0.0217	
15	gamma-Chlordane	6.673	6.673	0.000	5761	0.05000	0.0210	
17	alpha-Chlordane	6.858	6.858	0.000	5617	0.05000	0.0213	
19	4,4'-DDE	7.044	7.044	0.000	5696	0.05000	0.0208	
20	Endosulfan I	6.941	6.941	0.000	5144	0.05000	0.0216	
21	Dieldrin	7.288	7.288	0.000	5754	0.05000	0.0215	
23	Endrin	7.678	7.678	0.000	4304	0.05000	0.0185	
24	4,4'-DDD	7.779	7.779	0.000	4822	0.05000	0.0220	
26	Endosulfan II	7.939	7.939	0.000	4612	0.05000	0.0214	
27	4,4'-DDT	8.186	8.186	0.000	4082	0.05000	0.0180	
28	Endrin Aldehyde	8.363	8.363	0.000	3232	0.05000	0.0218	
29	Methoxychlor	9.044	9.044	0.000	1962	0.05000	0.0175	
32	Endosulfan sulfate	8.719	8.719	0.000	3692	0.05000	0.0264	
33	Endrin Ketone	9.418	9.418	0.000	4753	0.05000	0.0264	
$ 34	Decachlorobiphenyl	11.119	11.119	0.000	2960	0.05000	0.0214	


Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00051.D
Date : 06-OCT-2023 20:25
Client ID:
Sample Info: WG343657-5
Purge Volume: 1.0
Column phase: ZB-Multiresidue-2
Instrument: gc01.i
Operator: AD
Column diameter: 0.53
\\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00051.D
Y (x10^3)
Min
-Tetrachloro-m-Xylene (3.592)
alpha-BHC (4.293)
-beta-BHC (4.810)
gamma-BHC (4.728)
-Heptachlor (5.303)
delta-BHC (5.188)
-Aldrin (5.723)
-Heptachlor Epoxide (6.433)
-gamma-Chlordane (6.673)
-alpha-Chlordane (6.858)
-Endosulfan I (6.942)
-4,4'-DDE (7.045)
-Dieldrin (7.288)
-Endrin (7.678)
-4,4'-DDD (7.780)
-Endosulfan II (7.940)
-4,4'-DDT (8.187)
-Endrin Aldehyde (8.363)
-Endosulfan sulfate (8.720)
-Methoxychlor (9.045)
-Endrin Ketone (9.418)
-Decachlorobiphenyl (11.120)

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343657-6
Analytical Date: 10/06/23 20:44
Lab File ID: 1QJ00052.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: A

Compound	RRF/Amount	RF0.025	CCAL RRF0.025	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Toxaphene(1)	223	180	180	0.001	-19.34882	20.000	Averaged	
Toxaphene(2)	376	264	264	0.001	-29.82456	20.000	Averaged	*
Toxaphene(3)	382	344	344	0.001	-9.87687	20.000	Averaged	
Toxaphene(4)	586	500	500	0.001	-14.71943	20.000	Averaged	
Toxaphene(5)	709	578	578	0.001	-18.43455	20.000	Averaged	
Toxaphene(6)	725	576	576	0.001	-20.58641	20.000	Averaged	*
Toxaphene(7)	889	736	736	0.001	-17.19172	20.000	Averaged	
Toxaphene(8)	653	506	506	0.001	-22.49764	20.000	Averaged	*
Toxaphene(9)	652	490	490	0.001	-24.88503	20.000	Averaged	*

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00052.D
Report Date: 01-Nov-2023 12:33

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00052.D
Lab Smp Id: TOX 0.5
Inj Date : 06-OCT-2023 20:44
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-6
Misc Info : WG343657,WG343657,WG342486,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 17   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: Tox.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

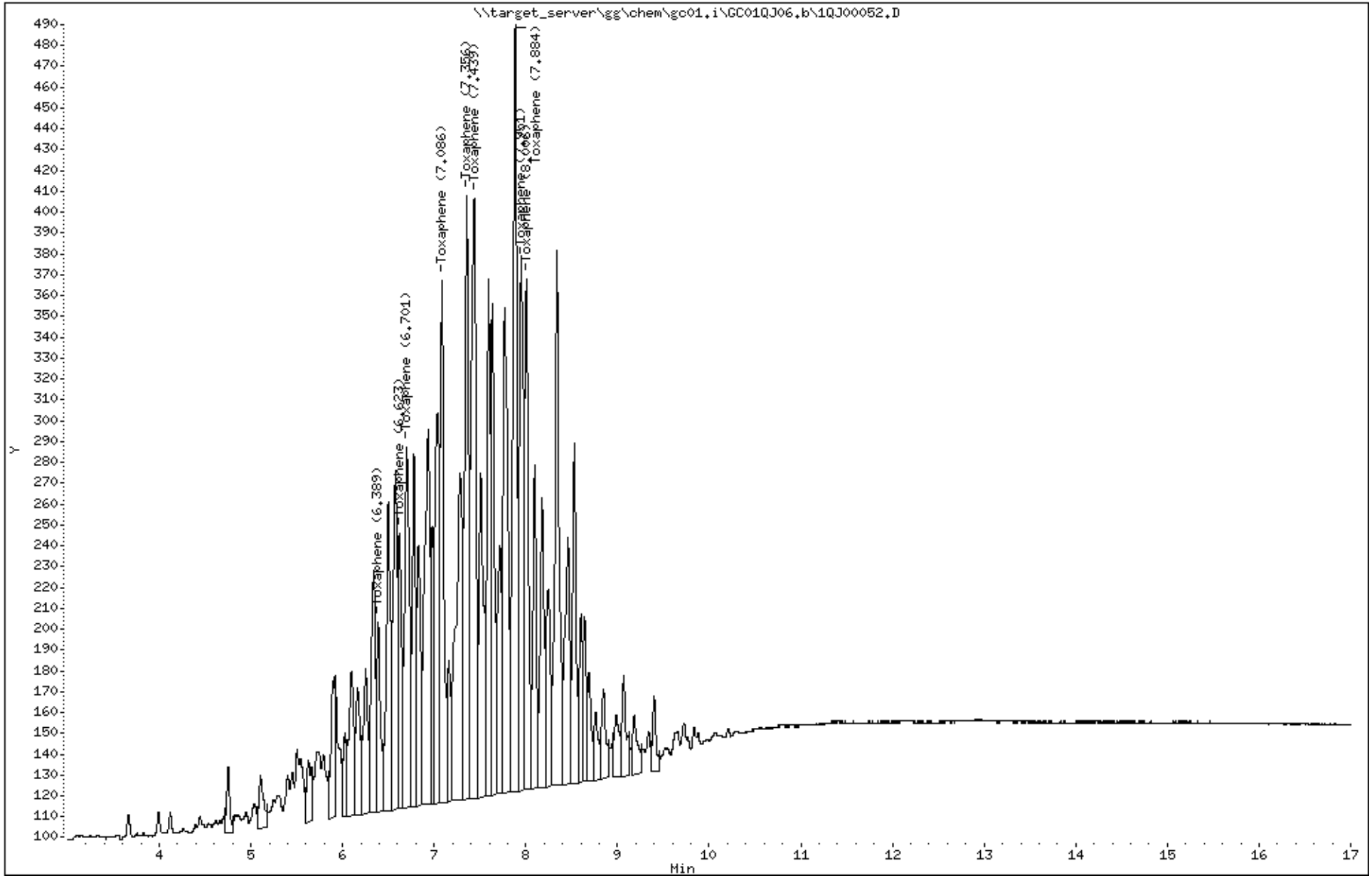
AD
2:10 pm, Nov 01, 2023

RT	EXP RT	DLT RT	AMOUNTS RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
6.387	6.387	0.000	90	1.00000	0.403	80.00- 120.00	100.00(M)	M5
6.619	6.619	0.000	132	1.00000	0.351	117.33- 176.00	146.67	M5
6.699	6.699	0.000	172	1.00000	0.451	152.89- 229.33	191.11	M5
7.085	7.085	0.000	250	1.00000	0.426	222.22- 333.33	277.78	M5
7.355	7.355	0.000	289	1.00000	0.408	256.89- 385.33	321.11	M5
7.437	7.437	0.000	288	1.00000	0.397	256.00- 384.00	320.00	M5
7.884	7.884	0.000	368	1.00000	0.414	327.11- 490.67	408.89	M5
7.947	7.947	0.000	253	1.00000	0.388	224.89- 337.33	281.11	M5
8.005	8.005	0.000	245	1.00000	0.376	217.78- 326.67	272.22	M5
Average of Peak Amounts =					0.40156			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00052.D
Date : 06-OCT-2023 20:44
Client ID:
Instrument: gc01.i
Sample Info: WG343657-6
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343657-6
Analytical Date: 10/06/23 20:44
Lab File ID: 1QJ00052.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: B

Compound	RRF/Amount	RF0.025	CCAL RRF0.025	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Toxaphene(1)	2226	2084	2084	0.001	-6.38546	20.000	Averaged	
Toxaphene(2)	1873	1778	1778	0.001	-5.07546	20.000	Averaged	
Toxaphene(3)	2488	2040	2040	0.001	-17.99325	20.000	Averaged	
Toxaphene(4)	2612	2250	2250	0.001	-13.87230	20.000	Averaged	
Toxaphene(5)	2742	2302	2302	0.001	-16.06097	20.000	Averaged	
Toxaphene(6)	4785	4104	4104	0.001	-14.23197	20.000	Averaged	
Toxaphene(7)	5460	4510	4510	0.001	-17.39448	20.000	Averaged	
Toxaphene(8)	3457	2770	2770	0.001	-19.88354	20.000	Averaged	
Toxaphene(9)	3264	2660	2660	0.001	-18.50116	20.000	Averaged	

*** = Compound out of QC criteria**

Data File: 1QJ00052.D
Report Date: 01-Nov-2023 12:34

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00052.D
Lab Smp Id: TOX 0.5
Inj Date : 06-OCT-2023 20:44
Operator : AD Inst ID: gc01.i
Smp Info : WG343657-6
Misc Info : WG343657,WG343657,WG342486,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29 Cal File: 1QI00079.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Tox.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

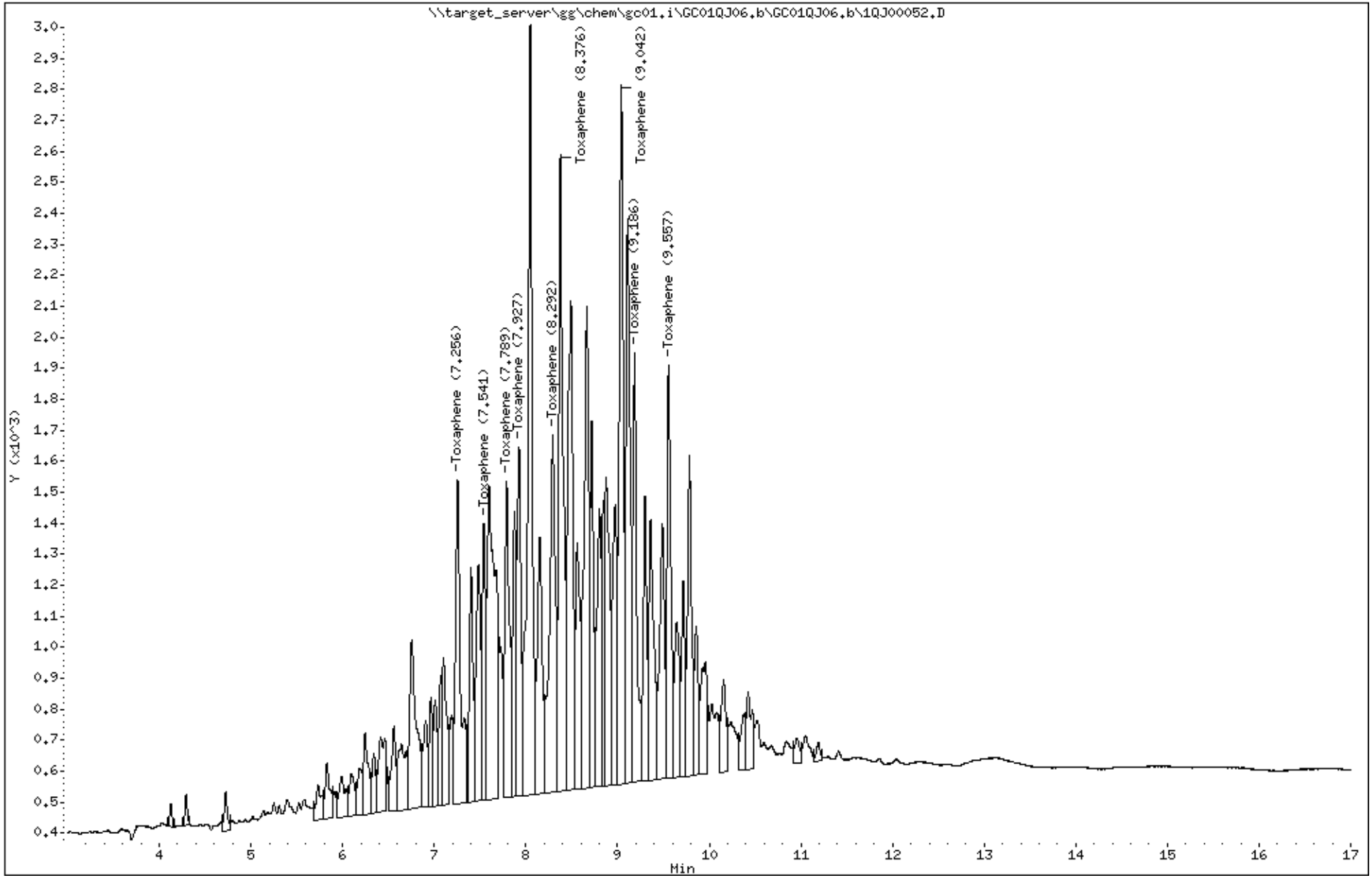
AD
2:10 pm, Nov 01, 2023

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
18 Toxaphene					CAS #: 8001-35-2			
7.255	7.255	0.000	1042	1.00000	0.468	80.00- 120.00	100.00(M)	M5
7.539	7.539	0.000	889	1.00000	0.475	68.25- 102.38	85.32	M5
7.789	7.789	0.000	1020	1.00000	0.410	78.31- 117.47	97.89	M5
7.927	7.927	0.000	1125	1.00000	0.431	86.37- 129.56	107.97	M5
8.292	8.292	0.000	1151	1.00000	0.420	88.37- 132.55	110.46	M5
8.375	8.375	0.000	2052	1.00000	0.429	157.54- 236.31	196.93	M5
9.042	9.042	0.000	2255	1.00000	0.413	173.13- 259.69	216.41	M5
9.185	9.185	0.000	1385	1.00000	0.400	106.33- 159.50	132.92	M5
9.557	9.557	0.000	1330	1.00000	0.407	102.11- 153.17	127.64	M5
Average of Peak Amounts =					0.42811			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00052.D
Date : 06-OCT-2023 20:44
Client ID:
Instrument: gc01.i
Sample Info: WG343657-6
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343657-7
Analytical Date: 10/06/23 21:04
Lab File ID: 1QJ00053.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: A

Compound	RRF/Amount	RF0.025	CCAL RRF0.025	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Technical Chlordane(1)	4276	3692	3692	0.001	-13.64887	20.000	Averaged	
Technical Chlordane(2)	5359	4684	4684	0.001	-12.58802	20.000	Averaged	
Technical Chlordane(3)	1303	1052	1052	0.001	-19.27356	20.000	Averaged	

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00053.D
Report Date: 01-Nov-2023 12:33

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00053.D
Lab Smp Id: TC 0.25
Inj Date : 06-OCT-2023 21:04
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-7
Misc Info : WG343657,WG343657,WG342487,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 18   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

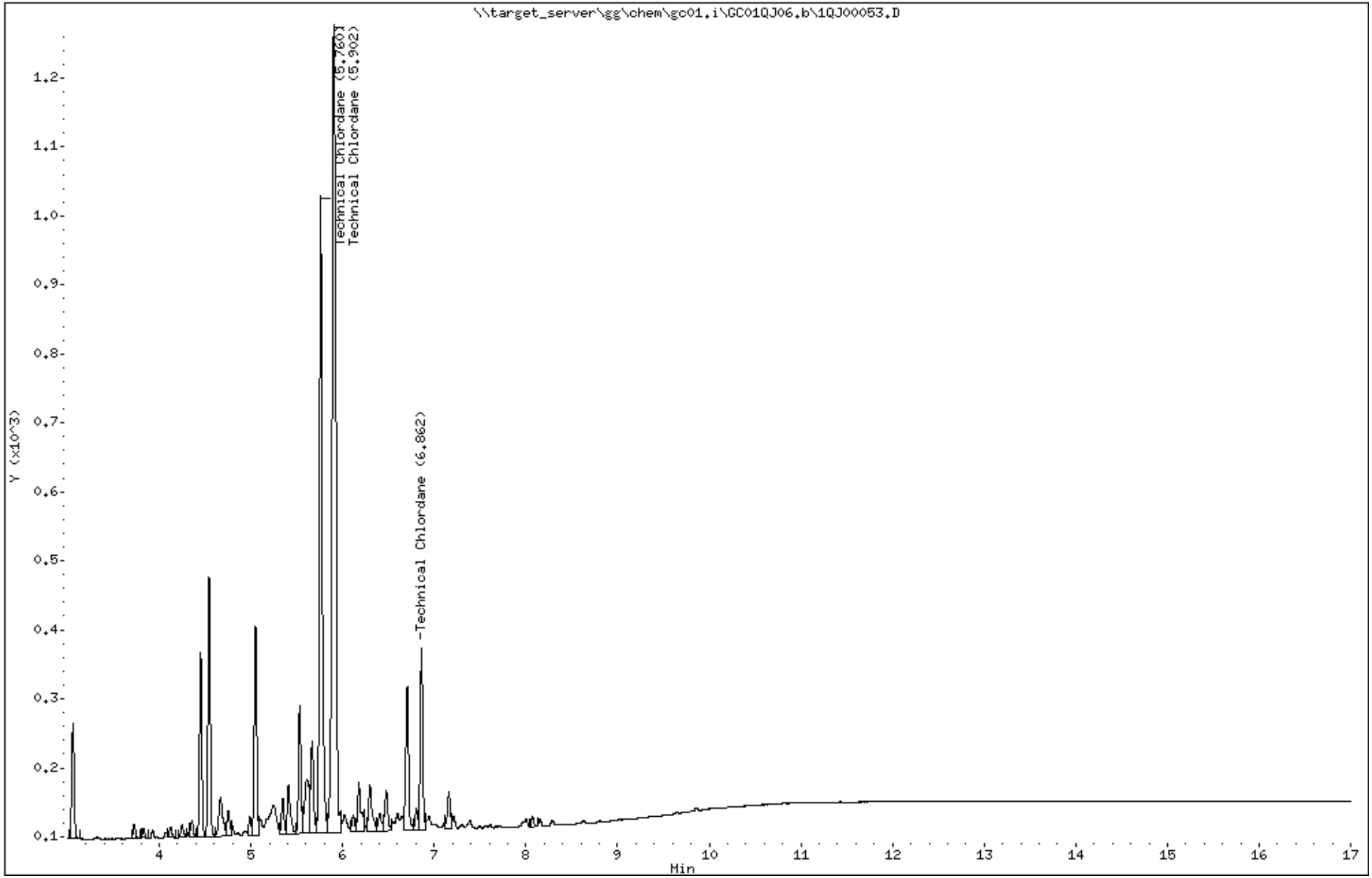
AD
2:10 pm, Nov 01, 2023

			AMOUNTS					
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
5.760	5.760	0.000	923	0.50000	0.216	80.00- 120.00	100.00(M)	M5
5.901	5.901	0.000	1171	0.50000	0.218	101.50- 152.24	126.87	M5
6.860	6.860	0.000	263	0.50000	0.202	22.80- 34.19	28.49	M5
		Average of Peak Amounts =			0.21200			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00053.D
Date : 06-OCT-2023 21:04
Client ID:
Instrument: gc01.i
Sample Info: WG343657-7
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343657-7
Analytical Date: 10/06/23 21:04
Lab File ID: 1QJ00053.D
Instrument ID: GC01
Initial Calibration Date(s): 09/11/23 20:49 09/12/23 14:29
Column ID: B

Compound	RRF/Amount	RF0.025	CCAL RRF0.025	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
Technical Chlordane(1)	30196	26776	26776	0.001	-11.32728	20.000	Averaged	
Technical Chlordane(2)	29974	25864	25864	0.001	-13.71265	20.000	Averaged	
Technical Chlordane(3)	8049	6496	6496	0.001	-19.29165	20.000	Averaged	

*** = Compound out of QC criteria**

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http://katahdinlab.com
sales@katahdinlab.com

Data File: 1QJ00053.D
Report Date: 01-Nov-2023 12:34

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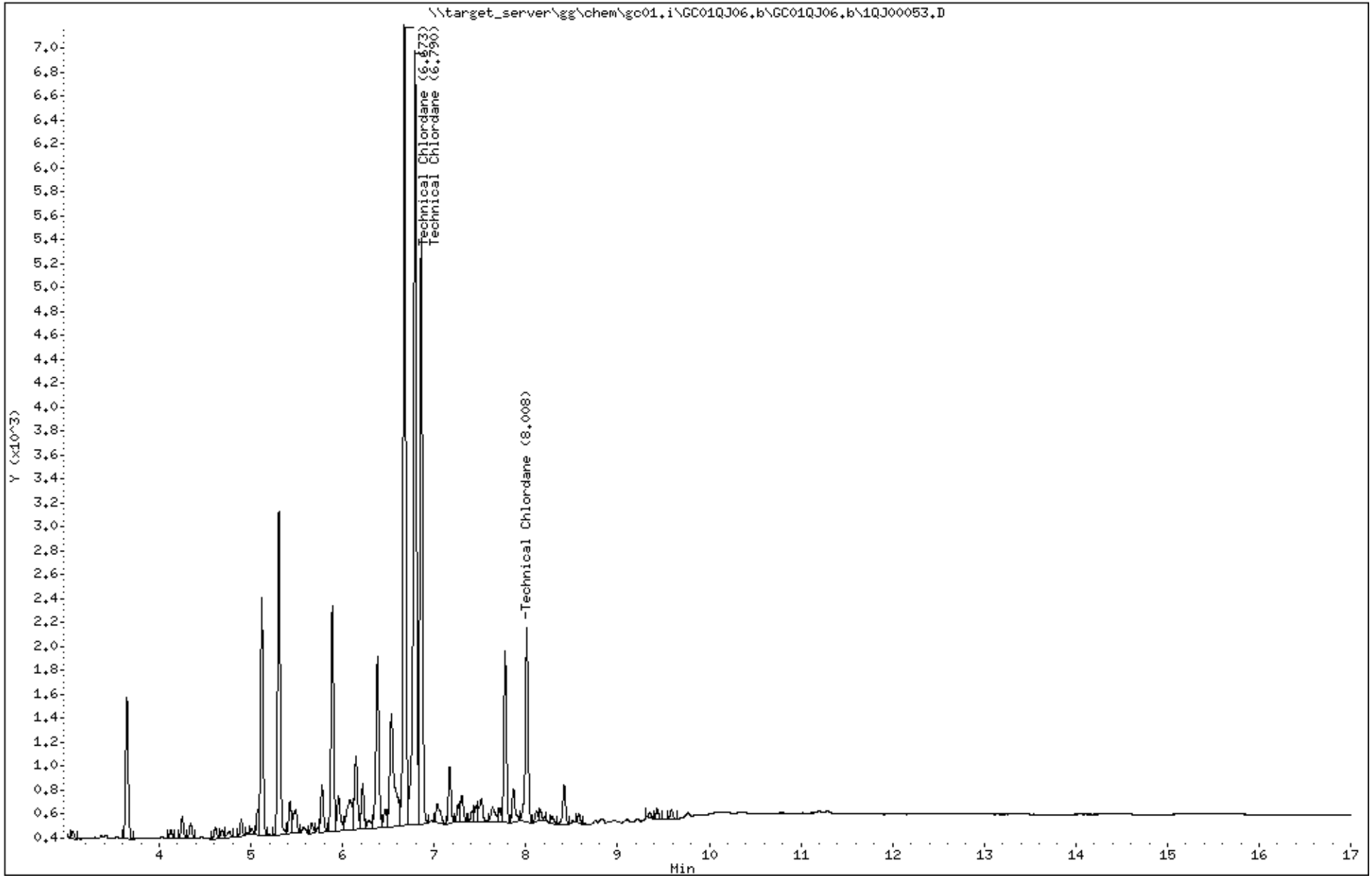
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Lab Smp Id: TC 0.25
Inj Date : 06-OCT-2023 21:04
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-7
Misc Info : WG343657,WG343657,WG342487,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29   Cal File: 1QI00079.D
Als bottle: 18   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: TC.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

			AMOUNTS					
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
14 Technical Chlordane					CAS #: 12789-03-6			
6.673	6.673	0.000	6694	0.50000	0.222	80.00- 120.00	100.00	
6.790	6.790	0.000	6466	0.50000	0.216	77.28- 115.91	96.59	
8.008	8.008	0.000	1624	0.50000	0.202	19.41- 29.11	24.26	
		Average of Peak Amounts =			0.21333			

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00053.D
Date : 06-OCT-2023 21:04
Client ID:
Instrument: gc01.i
Sample Info: WG343657-7
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Katahdin
ANALYTICAL SERVICES

Form 7D

Pesticide Breakdown Verification Summary

Lab ID: WG342485-1
Client ID: Breakdown Evaluation
Init. Calib. Date(s): 11-SEP-23 -12-SEP-23
Lab File ID: 1QI00048.D

Analysis Date: 11-SEP-23
Report Date: 01-NOV-23
SDG: SQ5108
Column ID: A

Lab Sample ID	Filename	% DDT Breakdown	% Endrin Breakdown
WG342485-1	1QI00048.D	.812	1.58

QC Limits:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

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Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00048.D
Report Date: 20-Sep-2023 12:02

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Data file : \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00048.D
Lab Smp Id: EVAL
Inj Date : 11-SEP-2023 20:29
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-1
Misc Info : WG342485,WG342485,WG342485-2,SQ4875-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m
Meth Date : 12-Sep-2023 16:30 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 20:49   Cal File: 1QI00049.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: eval.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

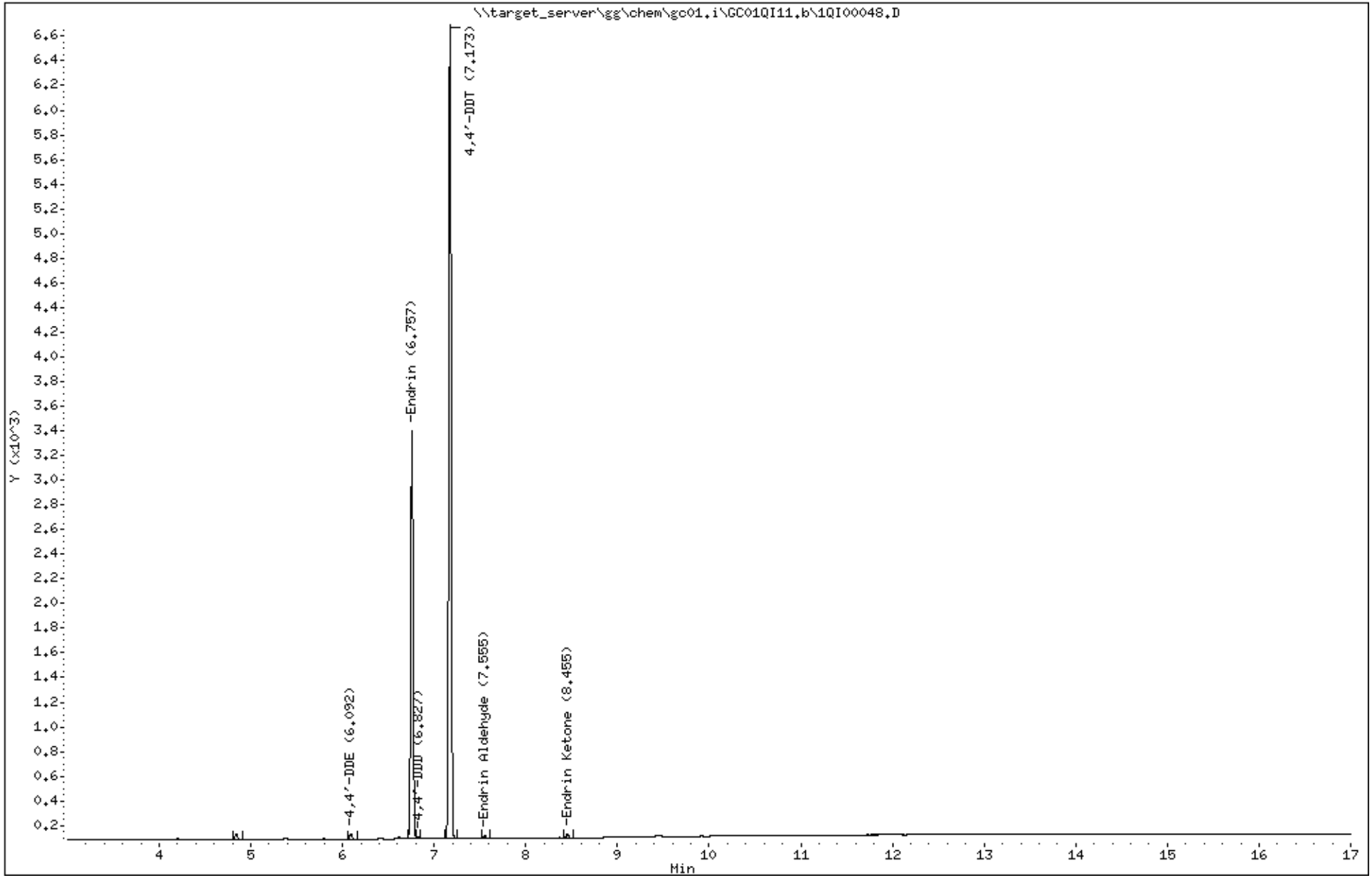
AD
2:10 pm, Nov 01, 2023

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
19 4,4'-DDE	6.091	6.089	0.002	42	0.00108	0.0108	
23 Endrin	6.756	6.757	-0.001	3306	0.09473	0.947	
24 4,4'-DDD	6.826	6.826	0.000	12	4e-004	0.00387(M)	M6
27 4,4'-DDT	7.173	7.172	0.001	6598	0.19885	1.99	
28 Endrin Aldehyde	7.554	7.551	0.003	21	1e-003	0.00957	
33 Endrin Ketone	8.454	8.452	0.002	32	0.00117	0.0117	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\1QI00048.D
Date : 11-SEP-2023 20:29
Client ID:
Instrument: gc01.i
Sample Info: WG342485-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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ANALYTICAL SERVICES

Form 7D

Pesticide Breakdown Verification Summary

Lab ID: WG342485-1
Client ID: Breakdown Evaluation
Init. Calib. Date(s): 11-SEP-23 -12-SEP-23
Lab File ID: 1QI00048.D

Analysis Date: 11-SEP-23
Report Date: 01-NOV-23
SDG: SQ5108
Column ID: B

Lab Sample ID	Filename	% DDT Breakdown	% Endrin Breakdown
WG342485-1	1QI00048.D	1.24	1.73

QC Limits:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

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Data File: 1QI00048.D
Report Date: 20-Sep-2023 12:03

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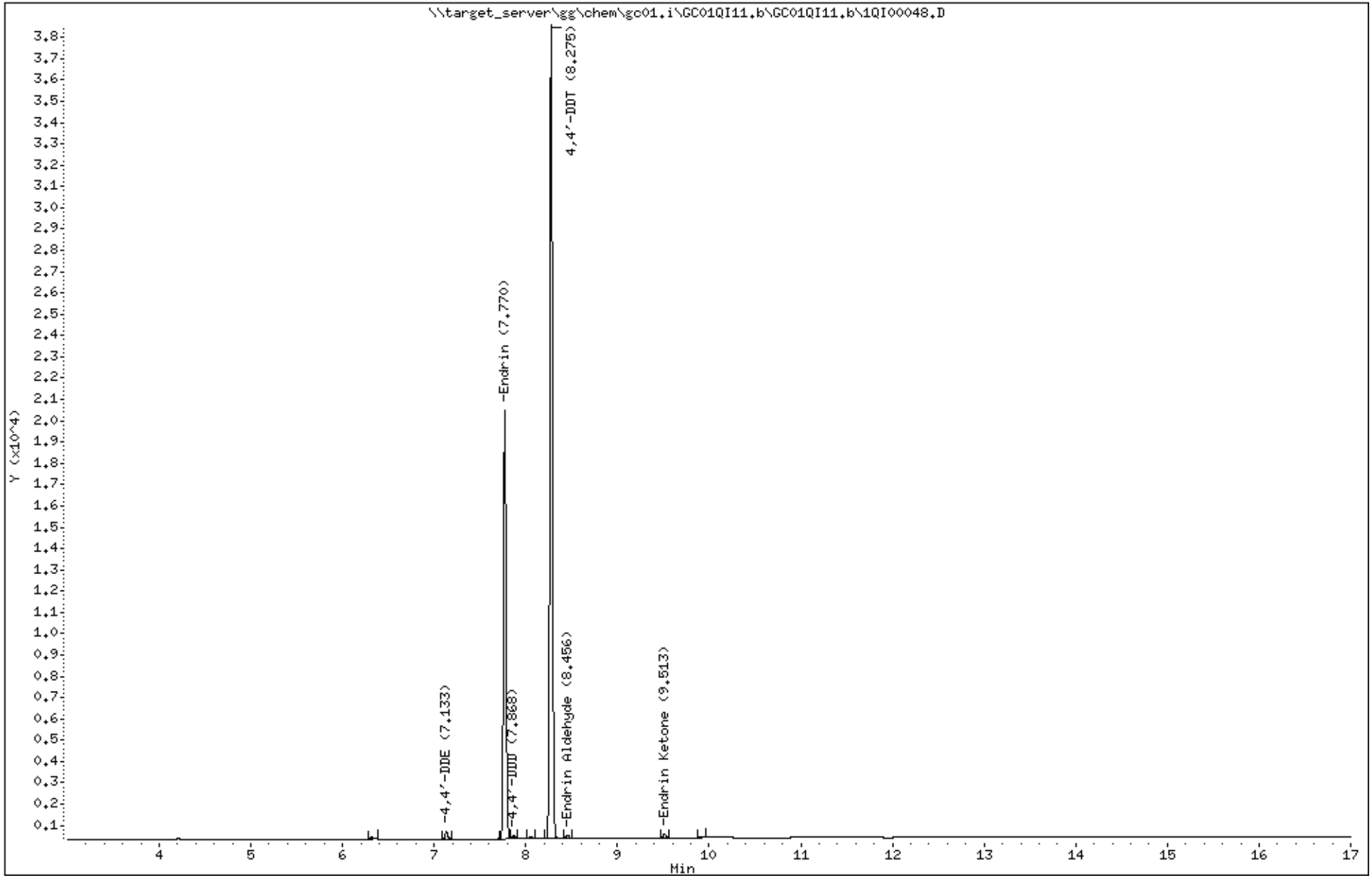
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Lab Smp Id: EVAL
Inj Date : 11-SEP-2023 20:29
Operator : AD   Inst ID: gc01.i
Smp Info : WG342485-1
Misc Info : WG342485,WG342485,WG342485-2,SQ4875-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QI11.b\PEST263.m\PEST263.m
Meth Date : 12-Sep-2023 16:38 adenbow   Quant Type: ESTD
Cal Date : 11-SEP-2023 20:49   Cal File: 1QI00049.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: eval.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
19 4,4'-DDE	7.133	7.132	0.001	350	0.00136	0.0136	
23 Endrin	7.769	7.770	-0.001	20122	0.09233	0.923	
24 4,4'-DDD	7.868	7.867	0.001	131	6e-004	0.00636	
27 4,4'-DDT	8.274	8.273	0.001	38192	0.18053	1.80	
28 Endrin Aldehyde	8.456	8.455	0.001	139	0.00103	0.0103	
33 Endrin Ketone	9.513	9.512	0.001	216	0.00133	0.0133	

Data File: \\target_server\gg\chem\gc01.i\GC01QI11.b\GC01QI11.b\1QI00048.D
Date : 11-SEP-2023 20:29
Client ID:
Instrument: gc01.i
Sample Info: WG342485-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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ANALYTICAL SERVICES

Form 7D

Pesticide Breakdown Verification Summary

Lab ID: WG343657-1
Client ID: Breakdown Evaluation
Init. Calib. Date(s): 11-SEP-23 -12-SEP-23
Lab File ID: 1QJ00033.D

Analysis Date: 06-OCT-23
Report Date: 01-NOV-23
SDG: SQ5108
Column ID: A

Lab Sample ID	Filename	% DDT Breakdown	% Endrin Breakdown
WG343657-1	1QJ00033.D	1.4	6.25

QC Limits:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

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Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00033.D
Report Date: 01-Nov-2023 12:33

Katahdin Analytical Services

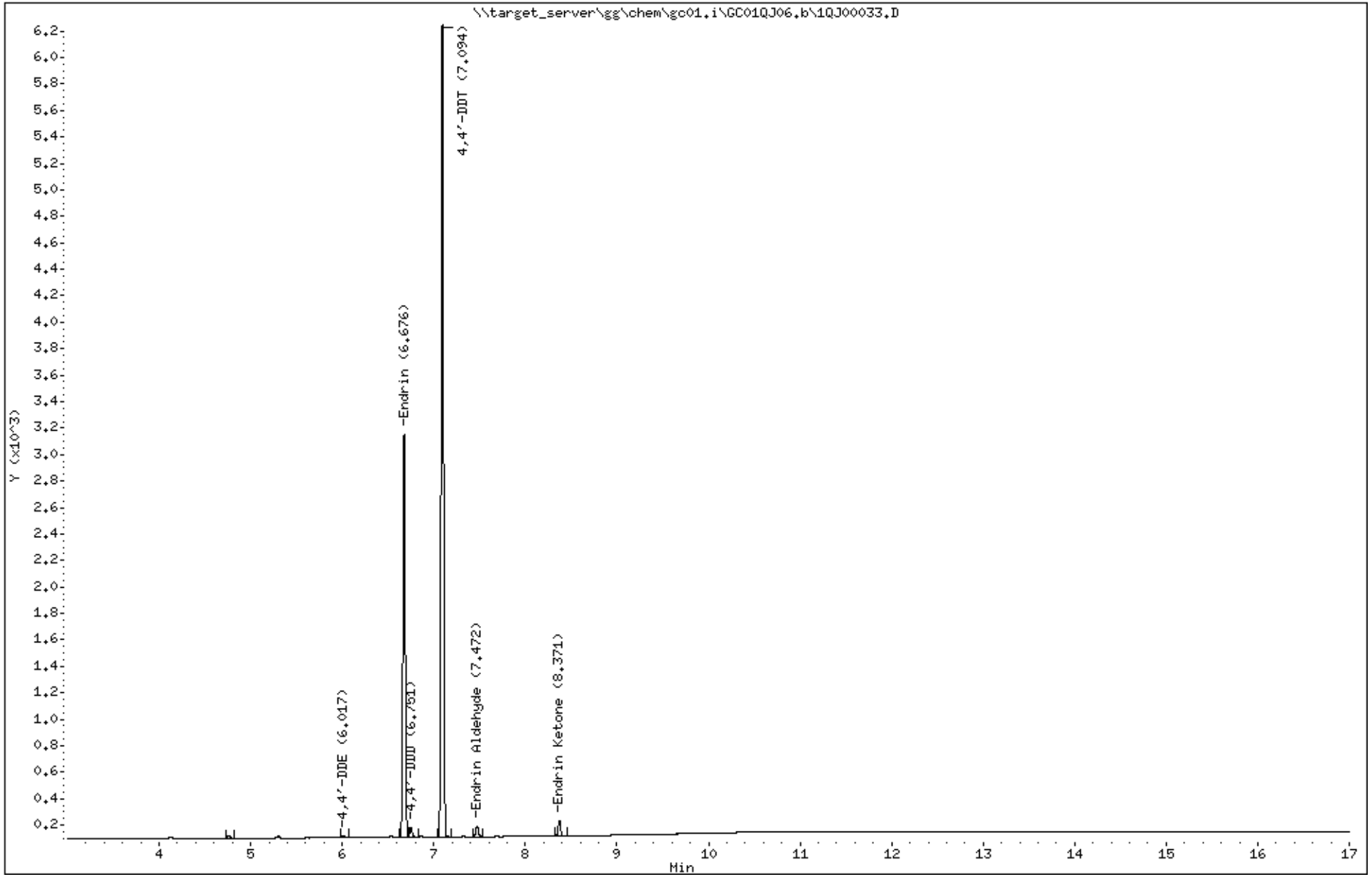
Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00033.D
Lab Smp Id: EVAL
Inj Date : 06-OCT-2023 12:12
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-1
Misc Info : WG343657,WG343657,WG342485-2,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09   Cal File: 1QI00078.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: eval.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
19 4,4'-DDE	6.017	6.006	0.011	13	3e-004	0.00316	
23 Endrin	6.675	6.668	0.007	3044	0.08285	0.828	
24 4,4'-DDD	6.750	6.741	0.009	74	0.00225	0.0225	
27 4,4'-DDT	7.094	7.088	0.006	6137	0.17445	1.74	
28 Endrin Aldehyde	7.472	7.465	0.007	83	0.00346	0.0346	
33 Endrin Ketone	8.370	8.365	0.005	120	0.00398	0.0398	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00033.D
Date : 06-OCT-2023 12:12
Client ID:
Instrument: gc01.i
Sample Info: WG343657-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



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Katahdin
ANALYTICAL SERVICES

Form 7D

Pesticide Breakdown Verification Summary

Lab ID: WG343657-1
Client ID: Breakdown Evaluation
Init. Calib. Date(s): 11-SEP-23 -12-SEP-23
Lab File ID: 1QJ00033.D

Analysis Date: 06-OCT-23
Report Date: 01-NOV-23
SDG: SQ5108
Column ID: B

Lab Sample ID	Filename	% DDT Breakdown	% Endrin Breakdown
WG343657-1	1QJ00033.D	1.84	6.39

QC Limits:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

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Data File: 1QJ00033.D
Report Date: 01-Nov-2023 12:33

Katahdin Analytical Services

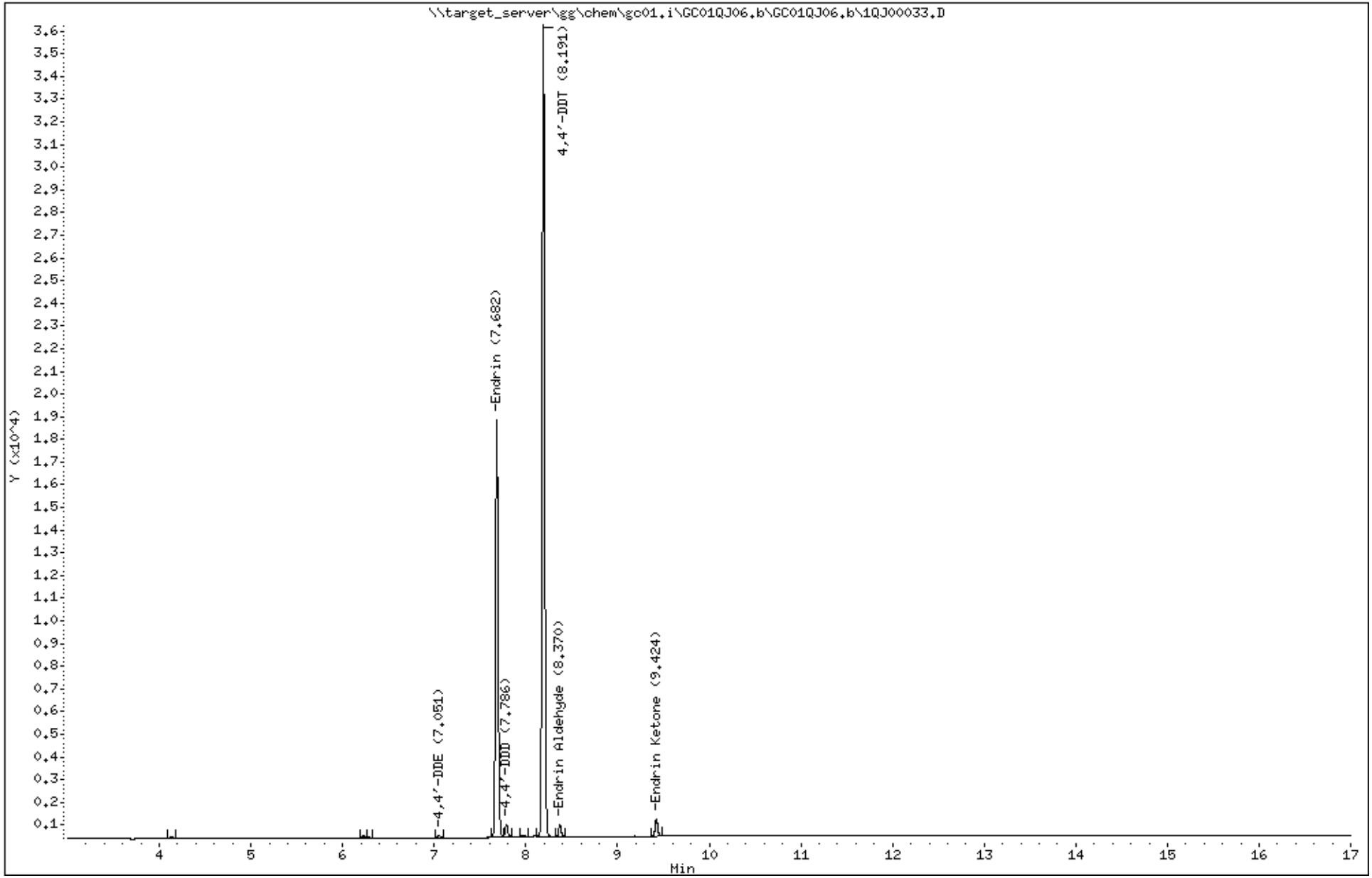
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Lab Smp Id: EVAL
Inj Date : 06-OCT-2023 12:12
Operator : AD   Inst ID: gc01.i
Smp Info : WG343657-1
Misc Info : WG343657,WG343657,WG342485-2,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29   Cal File: 1QI00079.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: eval.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
19 4,4'-DDE	7.050	7.044	0.006	113	4e-004	0.00413	
23 Endrin	7.682	7.678	0.004	18412	0.07921	0.792	
24 4,4'-DDD	7.785	7.779	0.006	556	0.00253	0.0253	
27 4,4'-DDT	8.190	8.186	0.004	35766	0.15819	1.58	
28 Endrin Aldehyde	8.370	8.363	0.007	507	0.00343	0.0343	
33 Endrin Ketone	9.423	9.418	0.005	750	0.00417	0.0417	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00033.D
Date : 06-OCT-2023 12:12
Client ID:
Instrument: gc01.i
Sample Info: WG343657-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



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Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5108
Lab ID: WG343476-1
Client ID: Method Blank
Matrix: AQ
Lab File ID: 1QJ00037.D

Sample Date: N/A
Extract Date: 04-OCT-23
Extracted By: AD
Extraction Method: SW846 3510C
Lab Prep Batch: WG343476

Report Date: 01-NOV-23
Analysis Date: 06-OCT-23
Analyst: AD
Analysis Method: SW846 8081B
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
gamma-BHC	U	0.025	ug/L	1	.05	0.050	0.012	0.025
Heptachlor	U	0.025	ug/L	1	.05	0.050	0.012	0.025
Heptachlor Epoxide	U	0.025	ug/L	1	.05	0.050	0.012	0.025
Endrin	U	0.050	ug/L	1	.1	0.10	0.025	0.050
Methoxychlor	U	0.25	ug/L	1	.5	0.50	0.12	0.25
Technical Chlordane	U	0.25	ug/L	1	.5	0.50	0.12	0.25
Toxaphene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Tetrachloro-M-Xylene		71.9	%					
Decachlorobiphenyl		56.6	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
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Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00037.D
Report Date: 01-Nov-2023 12:33

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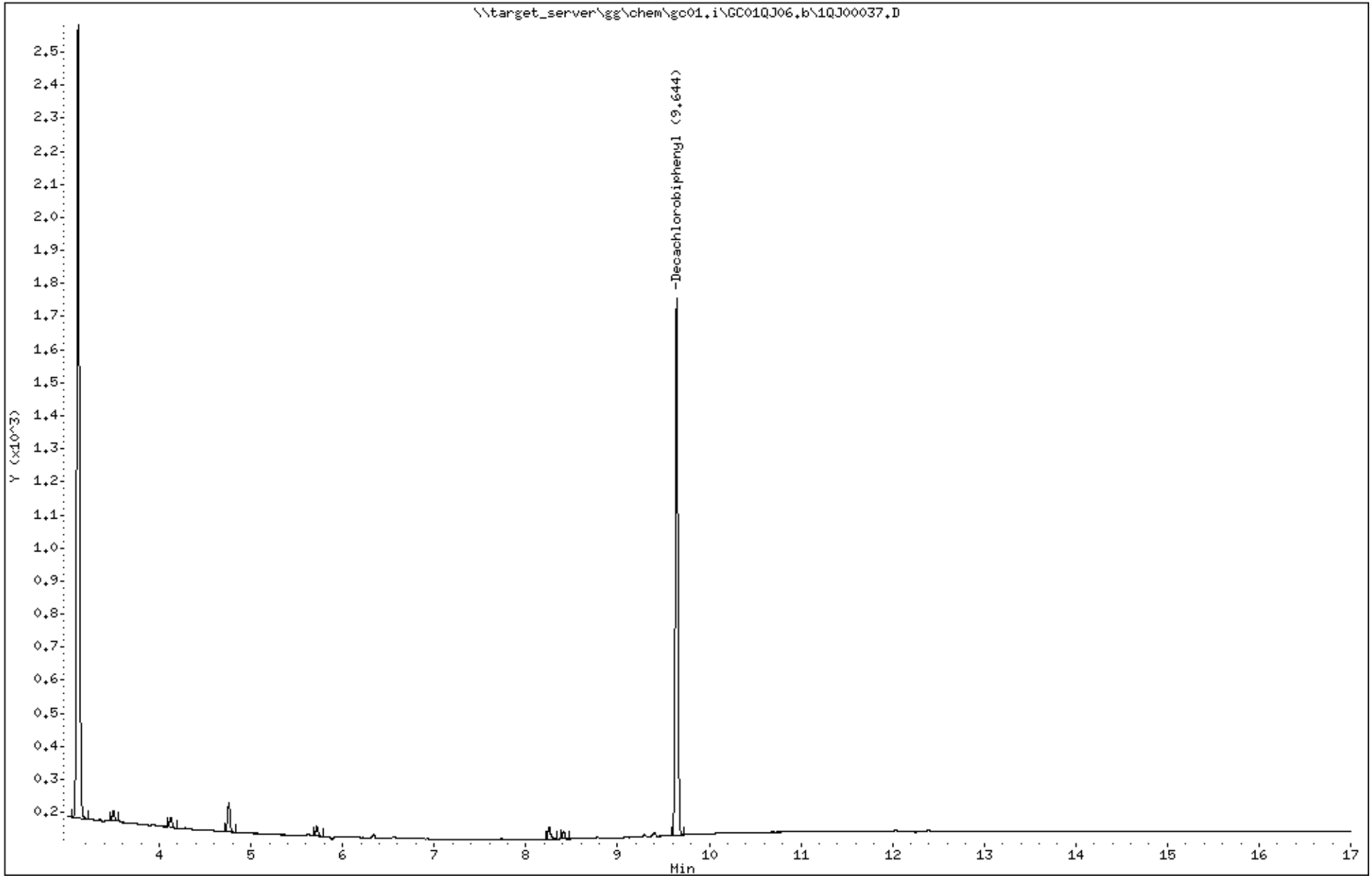
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Operator : AD Inst ID: gc01.i
Smp Info : WG343476-1
Misc Info : WG343657,WG343476,WG342485-2,SQ5108-1
Comment :
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Meth Date : 26-Oct-2023 14:48 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09 Cal File: 1QI00078.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_8081.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/L)	REVIEW CODE
$ 4 Tetrachloro-m-Xylene	3.114	3.111	0.003	2400	0.07195	0.719	
$ 34 Decachlorobiphenyl	9.644	9.638	0.006	1625	0.05569	0.557	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00037.D
Date : 06-OCT-2023 15:51
Client ID: WG343476-Blank
Instrument: gc01.i
Sample Info: WG343476-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Katahdin Analytical Services SQ5108 Page 408 of 640

Data File: 1QJ00037.D
Report Date: 01-Nov-2023 12:34

Katahdin Analytical Services

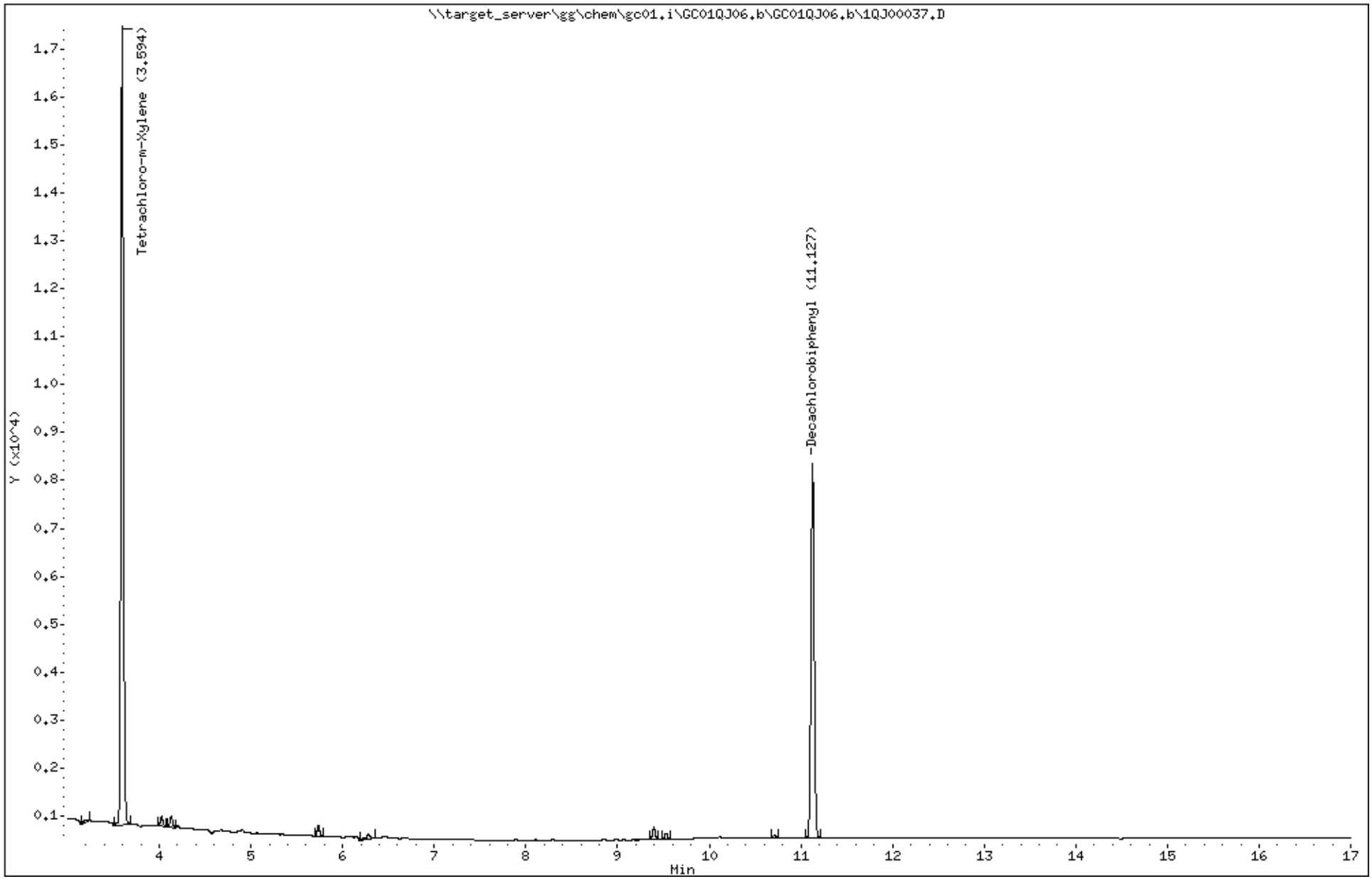
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Lab Smp Id: WG343476-1 Client Smp ID: WG343476-Blank
Inj Date : 06-OCT-2023 15:51
Operator : AD Inst ID: gc01.i
Smp Info : WG343476-1
Misc Info : WG343657,WG343476,WG342485-2,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29 Cal File: 1QI00079.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_8081.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/L)	REVIEW CODE
$ 4 Tetrachloro-m-Xylene	3.593	3.591	0.002	16683	0.06730	0.673	
$ 34 Decachlorobiphenyl	11.127	11.119	0.008	7823	0.05661	0.566	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00037.D
Date : 06-OCT-2023 15:51
Client ID: WG343476-Blank
Instrument: gc01.i
Sample Info: WG343476-1
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Katahdin Analytical Services SQ5108 Page 410 of 640

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ANALYTICAL SERVICES

LCS/LCSD Recovery Report

LCS ID: WG343476-2
LCSD ID: WG343476-3
SDG: SQ5108
LCS File ID: 1QJ00038.D

Extract Date: 04-OCT-23
Extracted By: AD
Extraction Method: SW846 3510C
Lab Prep Batch: WG343476
LCSD File ID: 1QJ00039.D

Analysis Date: 06-OCT-23
Analyst: AD
Analysis Method: SW846 8081B
Matrix: AQ
Report Date: 01-NOV-23

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
gamma-BHC	0.500	0.382	76.4	0.412	82.4	ug/L	8	30	59-134
Heptachlor	0.500	0.385	77.0	0.409	81.8	ug/L	6	30	54-130
Heptachlor Epoxide	0.500	0.373	74.6	0.392	78.4	ug/L	5	30	61-133
Endrin	0.500	0.364	72.8	0.380	76.0	ug/L	4	30	60-138
Methoxychlor	0.500	0.337	67.4	0.352	70.4	ug/L	4	30	54-145
Tetrachloro-M-Xylene			74.2		78.7				44-124
Decachlorobiphenyl			69.6		63.0				41-131

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Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00038.D
Report Date: 01-Nov-2023 12:33

Katahdin Analytical Services

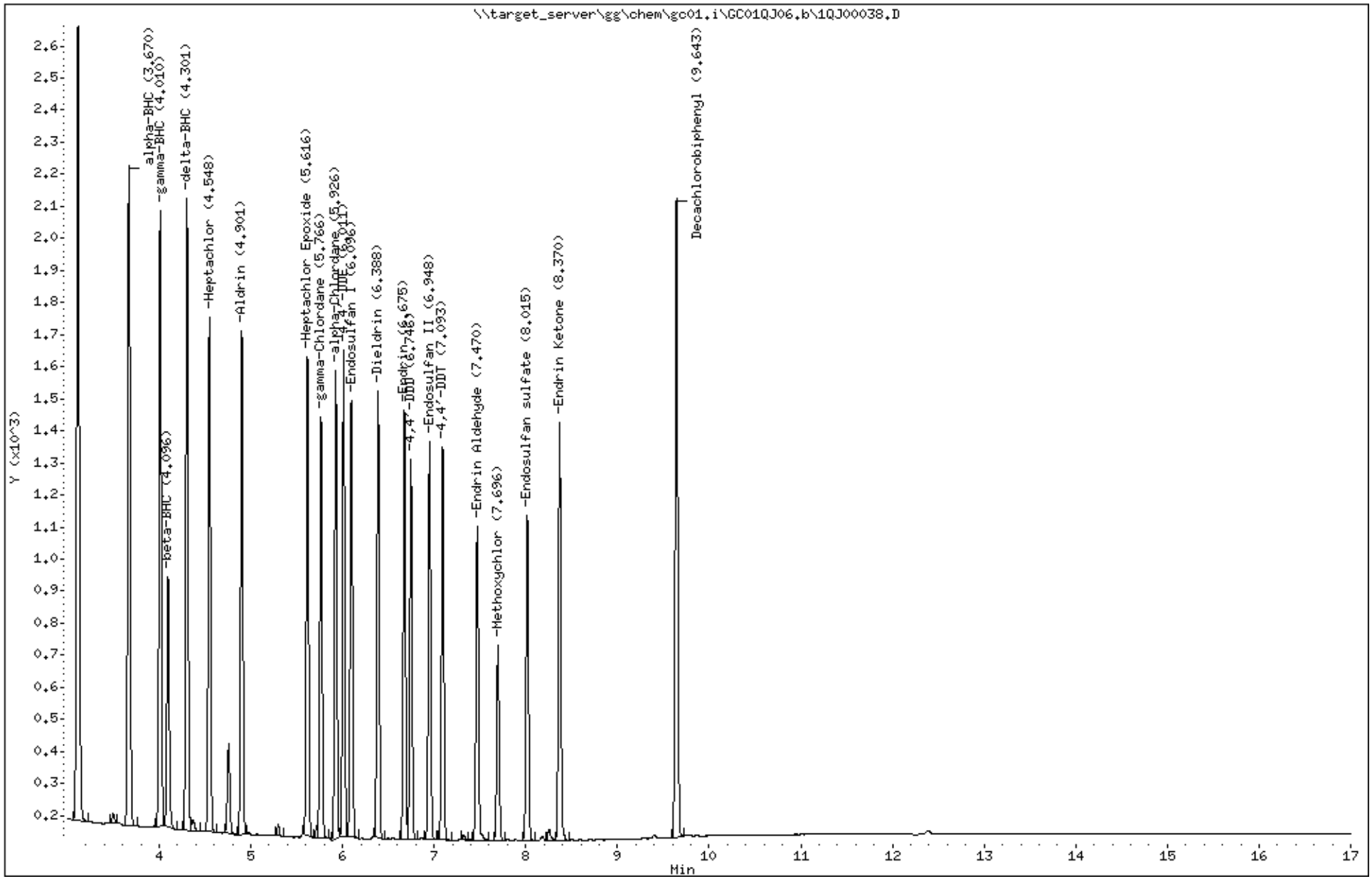
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Inj Date : 06-OCT-2023 16:11
Operator : AD Inst ID: gc01.i
Smp Info : WG343476-2
Misc Info : WG343657,WG343476,WG342485-2,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09 Cal File: 1QI00078.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_LCS.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 4	Tetrachloro-m-Xylene	3.114	3.111	0.003	2476	0.07423	0.742	
5	alpha-BHC	3.669	3.666	0.003	2058	0.03812	0.381	
6	gamma-BHC	4.009	4.006	0.003	1920	0.03822	0.382	
7	beta-BHC	4.096	4.091	0.005	780	0.03598	0.360	
8	delta-BHC	4.301	4.298	0.003	1972	0.04064	0.406	
9	Heptachlor	4.548	4.543	0.005	1605	0.03847	0.385	
10	Aldrin	4.901	4.896	0.005	1569	0.03565	0.356	
13	Heptachlor Epoxide	5.616	5.611	0.005	1494	0.03734	0.373	
15	gamma-Chlordane	5.766	5.760	0.006	1312	0.03245	0.324	
17	alpha-Chlordane	5.926	5.921	0.005	1461	0.03590	0.359	
20	Endosulfan I	6.096	6.091	0.005	1363	0.03805	0.380	
19	4,4'-DDE	6.011	6.006	0.005	1517	0.03689	0.369	
21	Dieldrin	6.388	6.383	0.005	1395	0.03546	0.354	
23	Endrin	6.674	6.668	0.006	1336	0.03636	0.364	
24	4,4'-DDD	6.746	6.741	0.005	1182	0.03591	0.359	
26	Endosulfan II	6.948	6.945	0.003	1240	0.03696	0.370	
28	Endrin Aldehyde	7.469	7.465	0.004	978	0.04079	0.408	
27	4,4'-DDT	7.093	7.088	0.005	1225	0.03482	0.348	
32	Endosulfan sulfate	8.014	8.010	0.004	1014	0.04578	0.458	
29	Methoxychlor	7.696	7.691	0.005	607	0.03323	0.332(a)	
33	Endrin Ketone	8.369	8.365	0.004	1304	0.04330	0.433	
$ 34	Decachlorobiphenyl	9.643	9.638	0.005	1993	0.06830	0.683	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00038.D
Date : 06-OCT-2023 16:11
Client ID: WG343476-LCS
Instrument: gc01.i
Sample Info: WG343476-2
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QJ00038.D
Report Date: 01-Nov-2023 12:34

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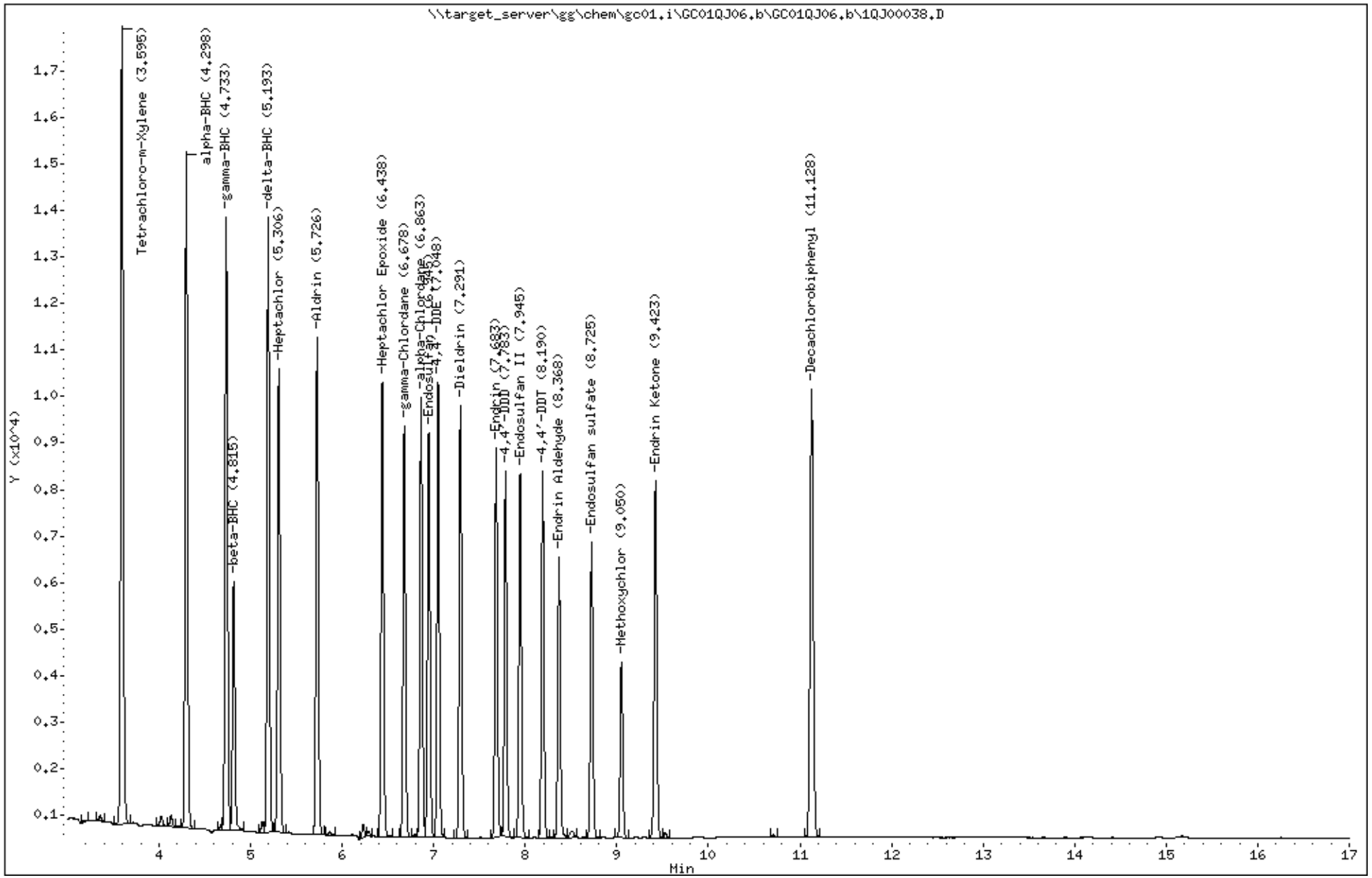
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Inj Date : 06-OCT-2023 16:11
Operator : AD Inst ID: gc01.i
Smp Info : WG343476-2
Misc Info : WG343657,WG343476,WG342485-2,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29 Cal File: 1QI00079.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_LCS.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 4	Tetrachloro-m-Xylene	3.594	3.591	0.003	17141	0.06915	0.692	
5	alpha-BHC	4.297	4.293	0.004	14540	0.03634	0.363	
6	gamma-BHC	4.732	4.728	0.004	13164	0.03682	0.368	
7	beta-BHC	4.814	4.809	0.005	5356	0.03531	0.353	
8	delta-BHC	5.192	5.188	0.004	13201	0.03948	0.395	
9	Heptachlor	5.306	5.303	0.003	9956	0.03656	0.366	
10	Aldrin	5.726	5.723	0.003	10673	0.03496	0.350	
13	Heptachlor Epoxide	6.437	6.433	0.004	9771	0.03644	0.364	
15	gamma-Chlordane	6.677	6.673	0.004	8826	0.03210	0.321	
17	alpha-Chlordane	6.862	6.858	0.004	9463	0.03584	0.358	
20	Endosulfan I	6.944	6.941	0.003	8698	0.03658	0.366	
19	4,4'-DDE	7.047	7.044	0.003	9765	0.03570	0.357	
21	Dieldrin	7.291	7.288	0.003	9300	0.03476	0.348	
23	Endrin	7.682	7.678	0.004	8355	0.03594	0.359	
24	4,4'-DDD	7.782	7.779	0.003	7868	0.03587	0.359	
26	Endosulfan II	7.944	7.939	0.005	7816	0.03624	0.362	
28	Endrin Aldehyde	8.367	8.363	0.004	6018	0.04067	0.407	
27	4,4'-DDT	8.189	8.186	0.003	7876	0.03484	0.348	
32	Endosulfan sulfate	8.724	8.719	0.005	6366	0.04544	0.454	
29	Methoxychlor	9.049	9.044	0.005	3775	0.03369	0.337(a)	
33	Endrin Ketone	9.422	9.418	0.004	7683	0.04274	0.427	
$ 34	Decachlorobiphenyl	11.127	11.119	0.008	9617	0.06959	0.696	

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Client ID: WG343476-LCS
Instrument: gc01.i
Sample Info: WG343476-2
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Katahdin Analytical Services SQ5108 Page 415 of 640

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00039.D
Report Date: 01-Nov-2023 12:33

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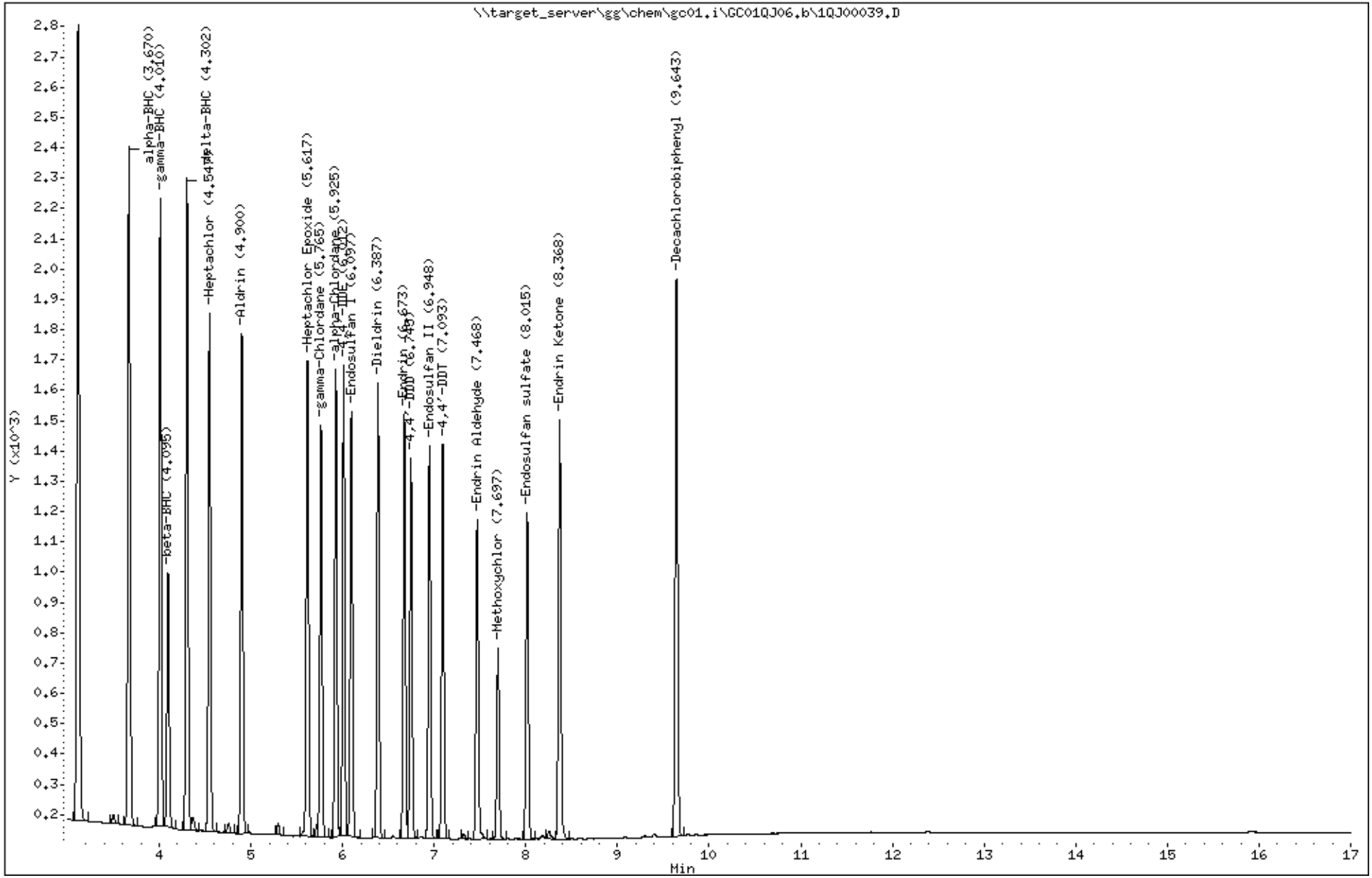
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Misc Info : WG343657,WG343476,WG342485-2,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09 Cal File: 1QI00078.D
Als bottle: 5 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_LCS.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 4 Tetrachloro-m-Xylene	3.113	3.111	0.002	2626	0.07872	0.787	
5 alpha-BHC	3.670	3.666	0.004	2239	0.04148	0.415	
6 gamma-BHC	4.010	4.006	0.004	2072	0.04125	0.412	
7 beta-BHC	4.095	4.091	0.004	838	0.03865	0.386	
8 delta-BHC	4.301	4.298	0.003	2155	0.04442	0.444	
9 Heptachlor	4.546	4.543	0.003	1708	0.04094	0.409	
10 Aldrin	4.900	4.896	0.004	1650	0.03749	0.375	
13 Heptachlor Epoxide	5.616	5.611	0.005	1569	0.03921	0.392	
15 gamma-Chlordane	5.765	5.760	0.005	1358	0.03358	0.336	
17 alpha-Chlordane	5.925	5.921	0.004	1543	0.03791	0.379	
20 Endosulfan I	6.096	6.091	0.005	1398	0.03903	0.390	
19 4,4'-DDE	6.011	6.006	0.005	1551	0.03772	0.377	
21 Dieldrin	6.386	6.383	0.003	1500	0.03813	0.381	
23 Endrin	6.673	6.668	0.005	1396	0.03800	0.380	
24 4,4'-DDD	6.745	6.741	0.004	1255	0.03813	0.381	
26 Endosulfan II	6.948	6.945	0.003	1298	0.03869	0.387	
28 Endrin Aldehyde	7.468	7.465	0.003	1053	0.04392	0.439	
27 4,4'-DDT	7.093	7.088	0.005	1298	0.03690	0.369	
32 Endosulfan sulfate	8.015	8.010	0.005	1076	0.04858	0.486	
29 Methoxychlor	7.696	7.691	0.005	629	0.03443	0.344(a)	
33 Endrin Ketone	8.368	8.365	0.003	1383	0.04592	0.459	
$ 34 Decachlorobiphenyl	9.643	9.638	0.005	1838	0.06299	0.630	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00039.D
Date : 06-OCT-2023 16:30
Client ID: WG343476-LCSD
Instrument: gc01.i
Sample Info: WG343476-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Data File: 1QJ00039.D
Report Date: 01-Nov-2023 12:34

Katahdin Analytical Services

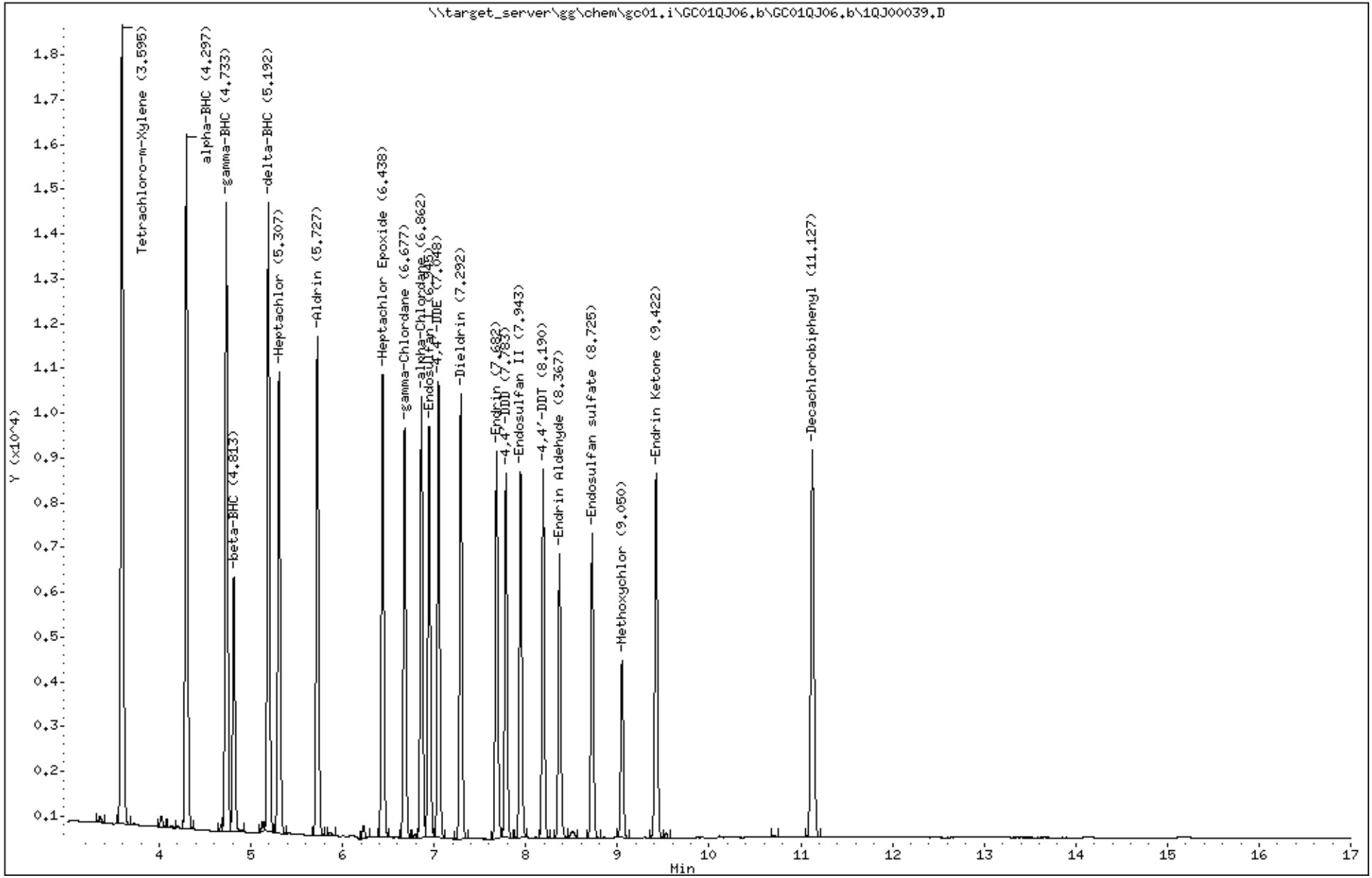
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Smp Info : WG343476-3
Misc Info : WG343657,WG343476,WG342485-2,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29 Cal File: 1QI00079.D
Als bottle: 5 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_LCS.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 4	Tetrachloro-m-Xylene	3.594	3.591	0.003	17860	0.07205	0.720	
5	alpha-BHC	4.296	4.293	0.003	15535	0.03883	0.388	
6	gamma-BHC	4.733	4.728	0.005	14061	0.03933	0.393	
7	beta-BHC	4.813	4.809	0.004	5694	0.03754	0.375	
8	delta-BHC	5.191	5.188	0.003	14059	0.04204	0.420	
9	Heptachlor	5.306	5.303	0.003	10305	0.03785	0.378	
10	Aldrin	5.726	5.723	0.003	11160	0.03656	0.366	
13	Heptachlor Epoxide	6.438	6.433	0.005	10351	0.03861	0.386	
15	gamma-Chlordane	6.676	6.673	0.003	9153	0.03329	0.333	
17	alpha-Chlordane	6.861	6.858	0.003	9844	0.03729	0.373	
20	Endosulfan I	6.944	6.941	0.003	9190	0.03865	0.386	
19	4,4'-DDE	7.048	7.044	0.004	10197	0.03728	0.373	
21	Dieldrin	7.291	7.288	0.003	9933	0.03713	0.371	
23	Endrin	7.681	7.678	0.003	8640	0.03717	0.372	
24	4,4'-DDD	7.783	7.779	0.004	8145	0.03713	0.371	
26	Endosulfan II	7.943	7.939	0.004	8175	0.03791	0.379	
28	Endrin Aldehyde	8.366	8.363	0.003	6358	0.04297	0.430	
27	4,4'-DDT	8.189	8.186	0.003	8256	0.03652	0.365	
32	Endosulfan sulfate	8.724	8.719	0.005	6805	0.04857	0.486	
29	Methoxychlor	9.049	9.044	0.005	3948	0.03523	0.352(a)	
33	Endrin Ketone	9.421	9.418	0.003	8171	0.04545	0.454	
$ 34	Decachlorobiphenyl	11.126	11.119	0.007	8645	0.06256	0.626	

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00039.D
Date : 06-OCT-2023 16:30
Client ID: WG343476-LCSD
Instrument: gc01.i
Sample Info: WG343476-3
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Katahdin
ANALYTICAL SERVICES

LCS Recovery Report

Lab ID: WG343476-4
Client ID: LCS1
SDG: SQ5108
LCS File ID: 1QJ00040.D
Report Date: 01-NOV-23

Extract Date: 04-OCT-23
Extracted By: AD
Extraction Method: SW846 3510C
Lab Prep Batch: WG343476

Analysis Date: 06-OCT-23
Analyst: AD
Analysis Method: SW846 8081B
Matrix: AQ

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Toxaphene	65.3	10.0	6.53	ug/L	33-134
Tetrachloro-M-Xylene	67.8				44-124
Decachlorobiphenyl	57.5				41-131

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00040.D
Report Date: 01-Nov-2023 12:33

Katahdin Analytical Services

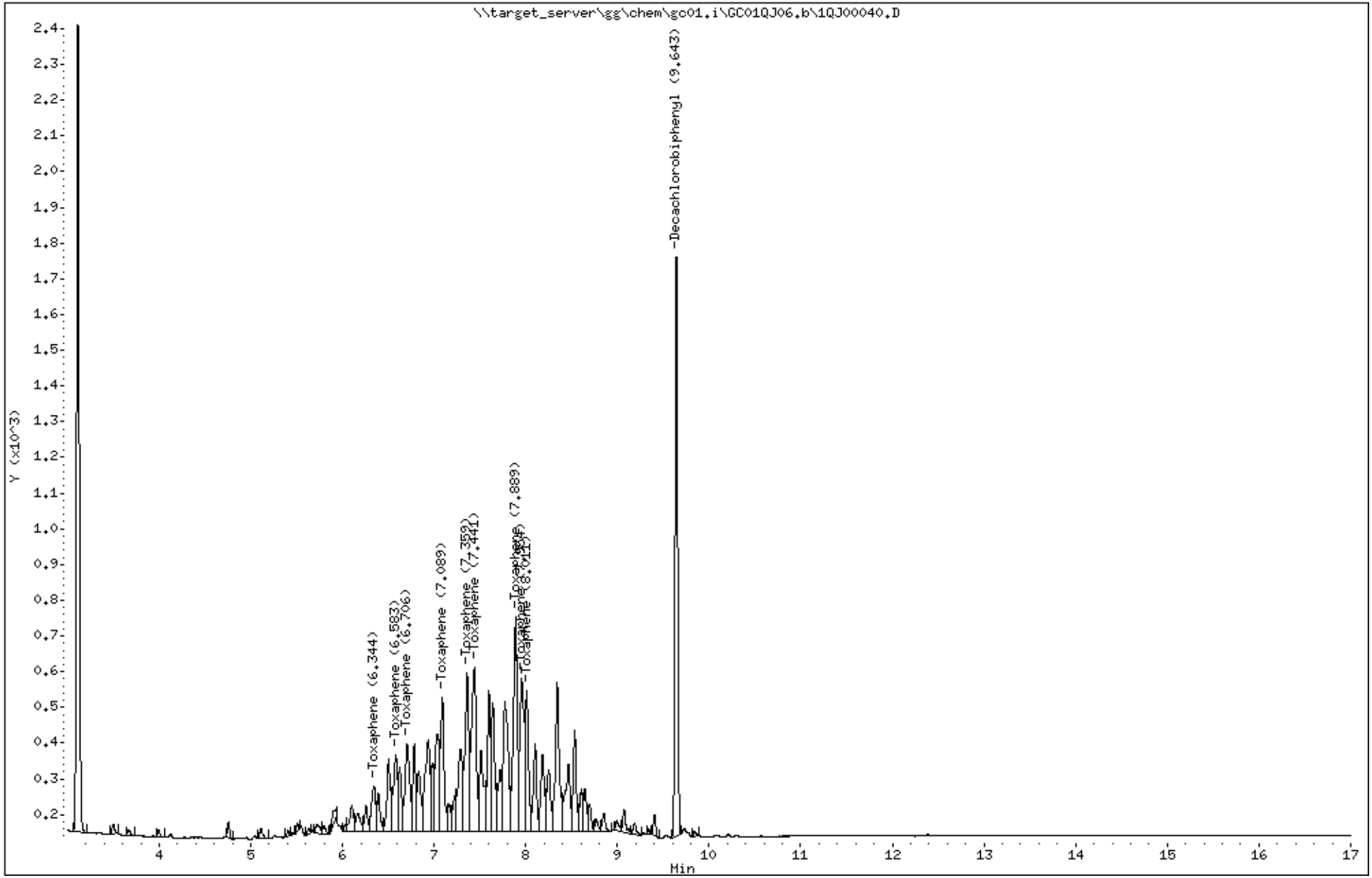
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Lab Smp Id: WG343476-4 Client Smp ID: WG343476-LCS1
Inj Date : 06-OCT-2023 16:50
Operator : AD Inst ID: gc01.i
Smp Info : WG343476-4
Misc Info : WG343657,WG343476,WG342486,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09 Cal File: 1QI00078.D
Als bottle: 6 QC Sample: LCS1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_toxLCS.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 4 Tetrachloro-m-Xylene					CAS #: 877-09-8			
3.112	3.111	0.001	2260	0.06775	0.678			
18 Toxaphene					CAS #: 8001-35-2			
6.344	6.387	-0.043	126	0.56456	5.64	80.00- 120.00	100.00	
6.582	6.619	-0.037	215	0.57150	5.72	117.33- 176.00	170.63	
6.706	6.699	0.007	242	0.63401	6.34	152.89- 229.33	192.06	
7.089	7.085	0.004	373	0.63619	6.36	222.22- 333.33	296.03	
7.359	7.355	0.004	442	0.62374	6.24	256.89- 385.33	350.79	
7.441	7.437	0.004	460	0.63421	6.34	256.00- 384.00	365.08	
7.889	7.884	0.005	598	0.67282	6.73	327.11- 490.67	474.60	
7.954	7.947	0.007	429	0.65709	6.57	224.89- 337.33	340.48	
8.011	8.005	0.006	393	0.60245	6.02	217.78- 326.67	311.90	
Average of Peak Concentrations =					6.22			
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3			
9.642	9.638	0.004	1622	0.05559	0.556			

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00040.D
Date : 06-OCT-2023 16:50
Client ID: WG343476-LCS1
Instrument: gc01.i
Sample Info: WG343476-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Katahdin Analytical Services SQ5108 Page 422 of 640

Data File: 1QJ00040.D
Report Date: 01-Nov-2023 12:34

Katahdin Analytical Services

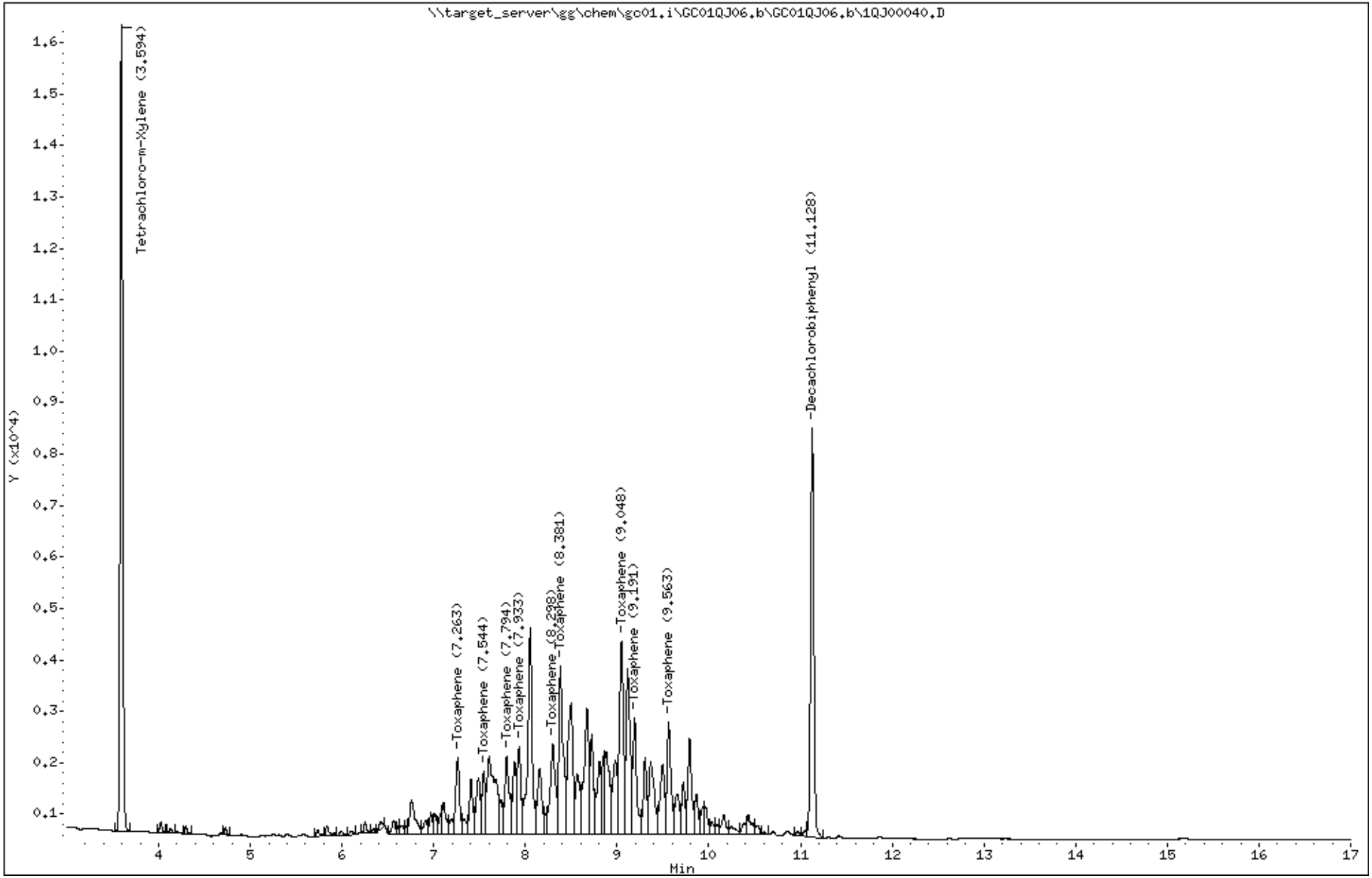
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Lab Smp Id: WG343476-4 Client Smp ID: WG343476-LCS1
Inj Date : 06-OCT-2023 16:50
Operator : AD Inst ID: gc01.i
Smp Info : WG343476-4
Misc Info : WG343657,WG343476,WG342486,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29 Cal File: 1QI00079.D
Als bottle: 6 QC Sample: LCS1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_toxLCS.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 4 Tetrachloro-m-Xylene					CAS #: 877-09-8			
3.594	3.591	0.003	15668	0.06321	0.632			
18 Toxaphene					CAS #: 8001-35-2			
7.262	7.255	0.007	1480	0.66482	6.65	80.00- 120.00	100.00	
7.544	7.539	0.005	1205	0.64333	6.43	68.25- 102.38	81.42	
7.794	7.789	0.005	1500	0.60299	6.03	78.31- 117.47	101.35	
7.932	7.927	0.005	1684	0.64462	6.45	86.37- 129.56	113.78	
8.297	8.292	0.005	1747	0.63702	6.37	88.37- 132.55	118.04	
8.380	8.375	0.005	3278	0.68506	6.85	157.54- 236.31	221.49	
9.047	9.042	0.005	3741	0.68520	6.85	173.13- 259.69	252.77	
9.190	9.185	0.005	2249	0.65048	6.50	106.33- 159.50	151.96	
9.562	9.557	0.005	2179	0.66762	6.68	102.11- 153.17	147.23	
		Average of Peak Concentrations =			6.53			
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3			
11.127	11.119	0.008	7945	0.05749	0.575			

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00040.D
Date : 06-OCT-2023 16:50
Client ID: WG343476-LCS1
Instrument: gc01.i
Sample Info: WG343476-4
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Katahdin Analytical Services SQ5108 Page 424 of 640

Katahdin
ANALYTICAL SERVICES

LCS Recovery Report

Lab ID: WG343476-5
Client ID: LCS2
SDG: SQ5108
LCS File ID: 1QJ00041.D
Report Date: 01-NOV-23

Extract Date: 04-OCT-23
Extracted By: AD
Extraction Method: SW846 3510C
Lab Prep Batch: WG343476

Analysis Date: 06-OCT-23
Analyst: AD
Analysis Method: SW846 8081B
Matrix: AQ

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Technical Chlordane	66.4	10.0	6.64	ug/L	62-140
Tetrachloro-M-Xylene	69.4				44-124
Decachlorobiphenyl	64.8				41-131

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00041.D
Report Date: 01-Nov-2023 12:33

Katahdin Analytical Services

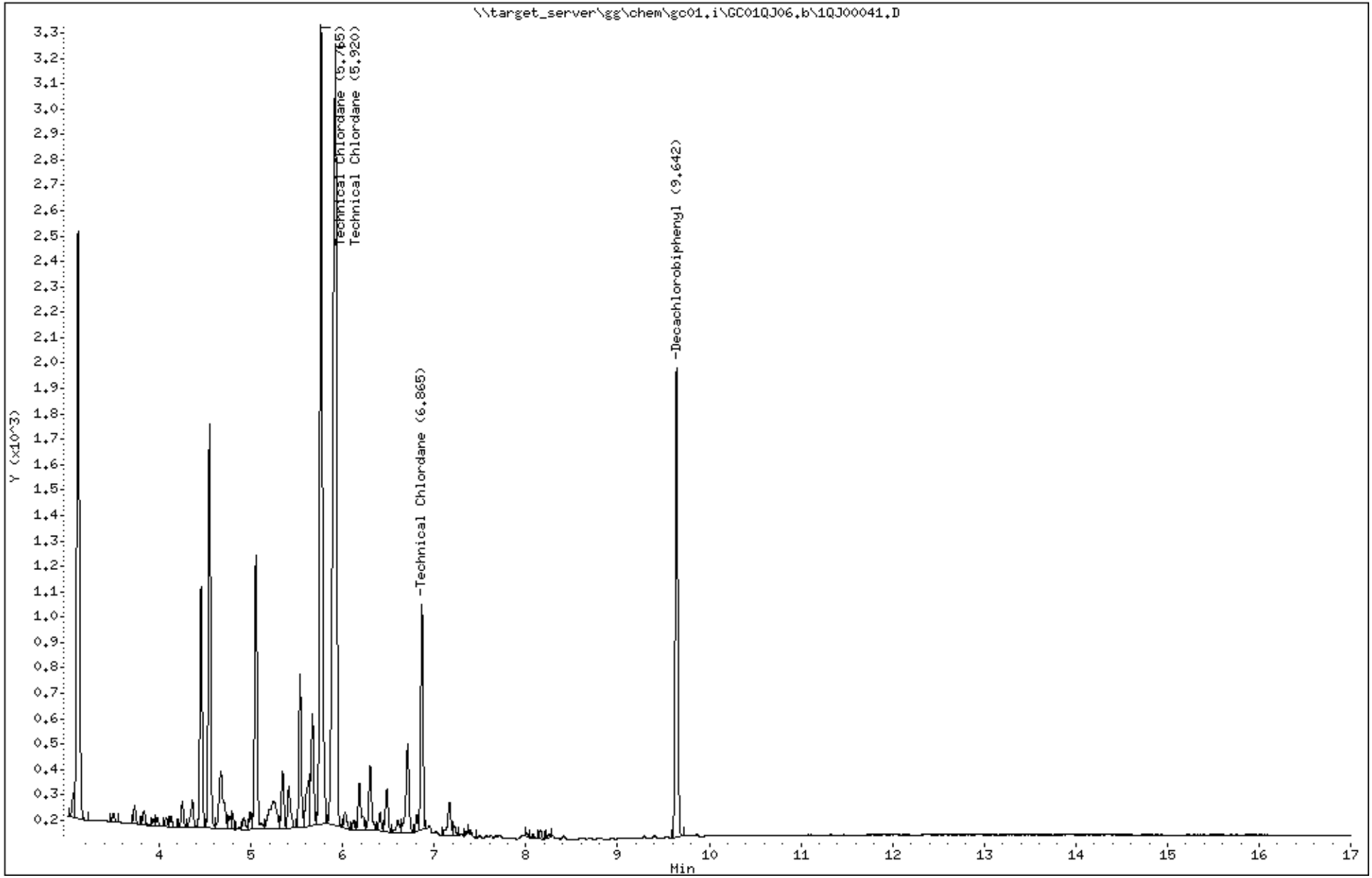
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Lab Smp Id: WG343476-5 Client Smp ID: WG343476-LCS2
Inj Date : 06-OCT-2023 17:09
Operator : AD Inst ID: gc01.i
Smp Info : WG343476-5
Misc Info : WG343657,WG343476,WG342487,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m
Meth Date : 26-Oct-2023 14:48 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:09 Cal File: 1QI00078.D
Als bottle: 7 QC Sample: LCS2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_tcLCS.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 4 Tetrachloro-m-Xylene					CAS #: 877-09-8			
3.113	3.111	0.002	2315	0.06940	0.694			
14 Technical Chlordane					CAS #: 12789-03-6			
5.765	5.760	0.005	3146	0.73581	7.36	80.00- 120.00	100.00	
5.920	5.901	0.019	3075	0.57385	5.74	101.50- 152.24	97.74	
6.865	6.860	0.005	889	0.68218	6.82	22.80- 34.19	28.26	
		Average of Peak Concentrations =			6.64			
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3			
9.641	9.638	0.003	1845	0.06323	0.632			

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\1QJ00041.D
Date : 06-OCT-2023 17:09
Client ID: WG343476-LCS2
Instrument: gc01.i
Sample Info: WG343476-5
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-1
Column diameter: 0.53



Katahdin Analytical Services SQ5108 Page 427 of 640

Data File: 1QJ00041.D
Report Date: 01-Nov-2023 12:34

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00041.D
Lab Smp Id: WG343476-5 Client Smp ID: WG343476-LCS2
Inj Date : 06-OCT-2023 17:09
Operator : AD Inst ID: gc01.i
Smp Info : WG343476-5
Misc Info : WG343657,WG343476,WG342487,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gc01.i\GC01QJ06.b\PEST263.m\PEST263.m
Meth Date : 26-Oct-2023 14:49 adenbow Quant Type: ESTD
Cal Date : 12-SEP-2023 14:29 Cal File: 1QI00079.D
Als bottle: 7 QC Sample: LCS2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: DoD5_tcLCS.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

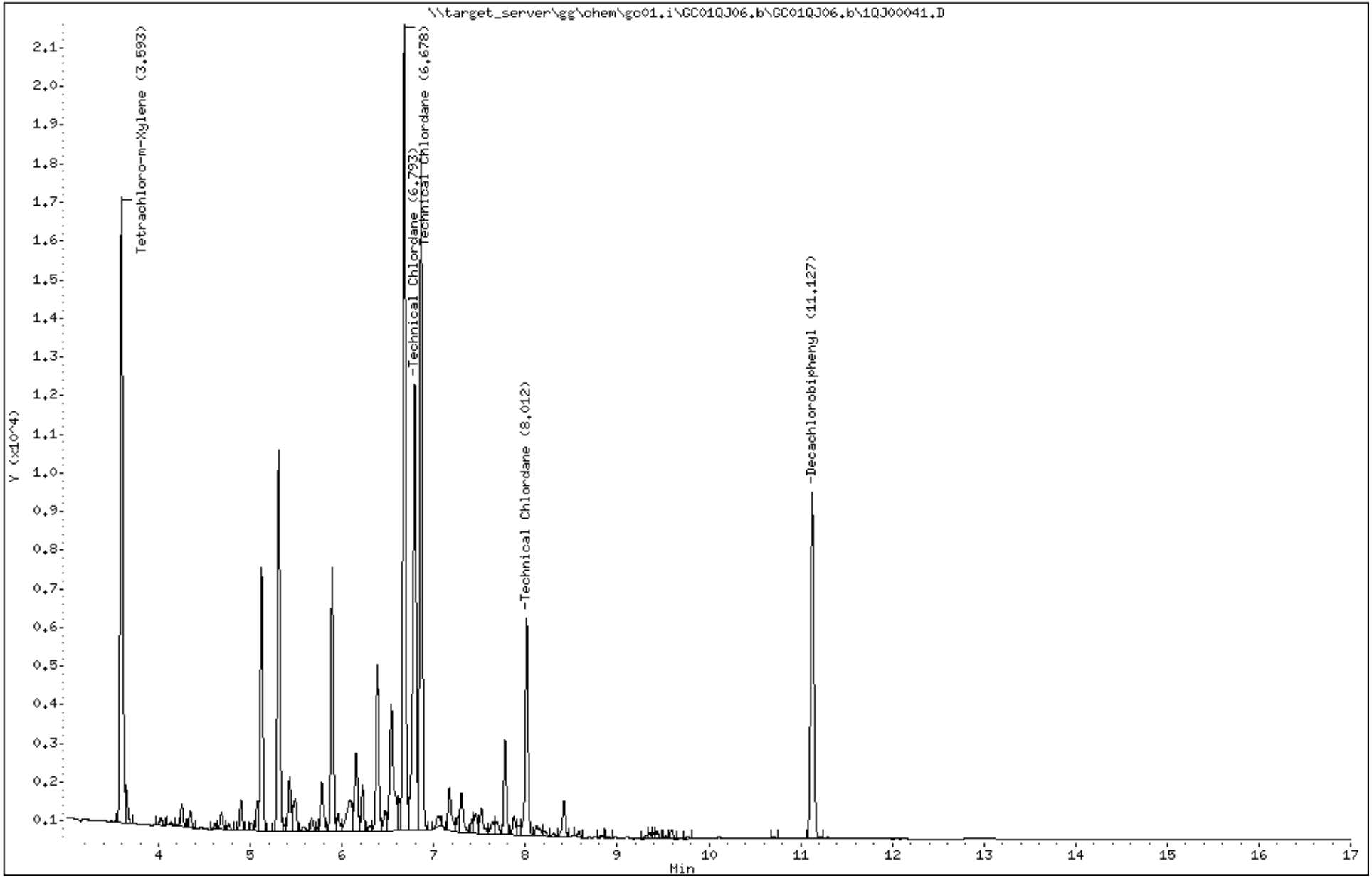
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 4 Tetrachloro-m-Xylene					CAS #: 877-09-8			
3.593	3.591	0.002	16180	0.06527	0.653			
14 Technical Chlordane					CAS #: 12789-03-6			
6.678	6.673	0.005	20852	0.69055	6.90	80.00- 120.00	100.00(R)	
6.793	6.790	0.003	11559	0.38563	3.86	77.28- 115.91	55.43	
8.011	8.008	0.003	5628	0.69924	6.99	19.41- 29.11	26.99	
Average of Peak Concentrations =					5.92			
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3			
11.126	11.119	0.007	8952	0.06478	0.648			

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gg\chem\gc01.i\GC01QJ06.b\GC01QJ06.b\1QJ00041.D
Date : 06-OCT-2023 17:09
Client ID: WG343476-LCS2
Instrument: gc01.i
Sample Info: WG343476-5
Purge Volume: 1.0
Operator: AD
Column phase: ZB-Multiresidue-2
Column diameter: 0.53



Katahdin Analytical Services SQ5108 Page 429 of 640

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES, LLC. Non-Volatile TCLP/SPLP Extraction Log

I. EXTRACTION CONDITIONS

Extraction Method:	SW846 1311 (TCLP) ☐ SW846 1312 (SPLP) ☐		Balance ID: BAL-09	Rotary Extractor ID:		
			pH Probe ID:	pH Meter ID: Fisher AB315 S/N A11928		
Solid pH Determination:	Date:	Analyst:	Room Thermometer ID:	(Room Temp Criteria. 23(±2)°C)		
Rotary Extraction Started:	Date:	Time:	Analyst:	RoomTemp(°C):	Start:	End:
Rotary Extraction Completed:	Date:	Time:	Analyst:	Room Temp (°C):	Min.	Max.
Extraction Filtered:	Date:	Time:	Analyst:	Filter Lot #:		
Elapsed Extraction Time (HH:MM):		5% HNO_3 ID (used to wash filters):		HNO_3 Lot # (used to preserve extracts):		
Fluid 1 pH (Day of use):		Fluid 1 Expiration Date:		Rotary Extractor Rotation Rate Checked?		
Fluid 2 pH (Day of use):		Fluid 2 Expiration Date:		Criteria. 30 ± 2 RPM		

II. EXTRACTION SETUP TCLP Fluid pH: #1 - 4.93 ± 0.05 #2 - 2.88 ± 0.05 SPLP Fluid pH: #1 - 4.20 ± 0.05 #2 - 5.00 ± 0.05

Katahdin Sample No. (include bottle ID)	Matrix	Check One: 100% Wet Solids- waste will yield no liquid upon filtration	Check One: < 100% Wet Solids (Perform Solids Determination below)	SPLP FLUID # (1 for east and 2 for west of Mississippi River)	TCLP pH Determination and Fluid Selection (date & init. above): Initial pH of solid phase. (if <5, use Fluid #1; if >5 add 3.5 mL of 1 N HCl)	TCLP pH Determination and Fluid Selection (date & init. above): pH after 1 N HCL addition (if <5, use Fluid #1; if >5, use Fluid #2	Extraction Setup: Volume of Extraction Fluid (mL)	Extraction Setup: Fluid # used	Extraction Setup: Associated Extraction Blank ID:	Extraction Setup: Weight of Waste (g)	pH of extract after extraction:	Extract to be analyzed for: Metals (M), SVOA (S), PEST (P), Herb (H), Cyanide (C)	Extraction Bottle ID (if applicable)
											CD 9-27-23		

QAAA232 - 000832

III. SOLIDS DETERMINATION

Date AQ Filtered: 9-27-23

Katahdin Sample No. (include bottle ID)	AQ or SL	Time Filt'd	A: Weight of filter (g)	B: Weight of filtrate vessel (g)	C: Weight of weigh boat + waste (g)	D: Weight of weigh boat + residue (g)	E: Weight of waste (C-D) (g)	F: Weight of filtrate vessel + filtrate (g)	G: Weight of liquid phase (F-B) (g)	H: Percent wet solids [(E-G)/E x 100%]	I: Weight of filter + dry solids (g)	J: Weight of dry solids (I-A) (g)	K: Percent dry solids (J/E x 100%)
SQ5108-IJ	AQ	1330	1.20	15.46	120.62	14.73	105.89	118.36	103.90	2.82	1.23	0.03	0.02%
CD 9-27													

IV. PHASE SEPARATION

Katahdin Sample No. (include bottle ID)	Matrix	Percent dry solids [1]: <0.5%	Percent dry solids [1]: >0.5%	L: Weight of filtrate vessel (g)	M: Weight of weigh boat + waste (g)	N: Weight of weigh boat + residue (g)	O: Weight of waste (M-N) (g)	P: Weight of filtrate vessel + filtrate (g)	Q: Weight of liquid phase (P-L) (g)	R: Volume of liquid phase (mL) [2]	S: Weight of wet solids (O - Q) (g)
										CD 9-27-23	

1) If dry solids is <0.5%, filter sufficient volume of waste to support all required analyses. If dry solids >0.5% and wet solids <100%, perform phase separation (steps L – S above).

2) If miscible, proportionately combine pre-extraction filtrate with rotary extract. If not miscible, analyze aliquots separately and mathematically combine results.

V. COMMENTS:

CD 9-27-23

Reviewed By_____ Date_____

SH 10/4/23 ~~PCB~~ pest DOD SEP

KATAHDIN ANALYTICAL SERVICES, LLC.
ORGANIC EXTRACTIONS LOG - AQUEOUS PESTICIDE/PCB

Extraction Method: (check one)	SW846 3510 (SEP)		SW846 3520 (CLLE)	Other:
Analytical Method:(check one)	SW846 8081	SW846 8082	EPA 608 (Mark meniscus with marker to determine IV)	Other:
Surrogate ID: GC2506	Spike ID: GC2479 pest		Spike ID: GC2496 TOX	GC2457 T.C.
Methylene Chloride Lot #: EH2060-US	Hexane Lot #: 224540		Acetone Lot #: —	
$NaSO_4$ Lot # RE1012	Filter Paper Lot #: CX0168		Boiling Stones ID: —	H_2SO_4 or NaOH Lot #: —
Vial Lot #: CX0161	pH Paper Lot # 4303005		Sample pH between 5 and 9? yes	Note in comment section samples requiring pH adjustment.
Nitrogen Bath Temperature: 40 C	KI Starch Paper ID: 030162023		TRC Present? no	If positive, note in comment section and contact the PM, the client may need to resample.
Prep Start Time: 11:15	Prep End Time: 11:45		CLLE Start Time: —	CLLE End Date & Time: —

Date Extracted	Ext. Init.	Sample ID	Initial Vol. (mL)	Surr. Vol.	Spike Vol.	Fraction: Pest	Fraction: PCB	Final Vol. mL	Date Conc.	Tray Location	Initials	Clean-Up: GPC	Clean-Up: Flor.	Clean-Up: Acid Wash	Clean-Up: Other	RL 24222 Comments
10/4/23	SH SR	WG343476-1	1000	1.0	N/A	\		10.00	10/5/23	F4	SR					MB
↓	↓	-2	↓	↓	1.0	\		↓	↓	F5	↓					LCS
		-3			↓	\				F6						LCSD
		-4				\				F7						TOX
↓	↓	-5	↓	↓	↓	\		↓	↓	F8	↓					TC

10/5/23

EX-002 – Revision 4 – 04/16/19

QAEX491_000479 0000178

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction: Pest	Fraction: PCB	Final Vol. mL	Date Conc.	Tray Location	Initials	Clean-Up: GPC	Clean-Up: Flor.	Clean-Up: Acid Wash	Clean-Up: Other	Comments
10/4/23	SH SR	SQ5108-1	200	1.0	N/A	\		10.00	10/5/23	F9	SR					RE TCLP
↓	↓	SQ5109-1	200	↓	↓	\		↓	↓	F10	↓					↓

10/5/23

Katahdin Analytical Services

GC Laboratory Instrument Runlog
Instrument: GC01
Amount Injected: 2 uL
Column Numbers: 586, 587
Method: SW846 8011 / (8081) / 8082 / 8151
(circle) EPA 504.1 / 556

Hexane Lot #	224540
Standard	Standard ID
INDAB 1.0, 0.05, 0.025	P0940, 941, 942
TOX 10, 1.0, 0.5	P0943, 944, 945
TC 10, 0.5, 0.25	P0946, 947, 948
EVAL	P0939

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
9/11/23	AD	IQ100048	EVAL	Y	WG342485 -1	PEST263	P0939
		49	INDAB 0.05	Y	-2		P0941
		50	INDAB 0.005	Y	-3		1:10 P0941
		51	INDAB 0.01	Y	-4		1:5 P0941
		52	INDAB 0.025	Y	-5		P0942
		53	INDAB 0.1	Y	-6		1:10 of P0940
		54	INDAB 0.25	Y	-7		1:4 of P0940
		55	INDAB IND 0.05	Y	-8		1:10 GC2479
		56	TOX 1.0	Y	WG342486 -1		P0944
		57	TOX 0.1	Y	-2		1:10 P0944
		58	TOX 0.25	Y	-3		1:4 P0944
		59	TOX 0.5	Y	-4		P0945
		60	TOX 2.5	Y	-5		1:4 P0943
		61	TOX 10	Y	-6		P0943
		62	TOX IND 10	Y	-7		1:10 GC2496
		63-70	TC ICAL	N			unusable data
9/12/23	AD	71-73	PRIME	N	WG342487		
		74	TC 0.5	Y	-1		P0947
		75	TC 0.05	Y	-2		1:10 P0947
		76	TC 0.1	Y	-3		1:5 P0947
		77	TC 0.25	Y	-4		P0948
		78	TC 1.0	Y	-5		1:10 P0946
		79	TC 2.5	Y	-6		1:4 P0946
		80	TC IND 0.5	Y	-7		1:10 GC2457

AD 9/20/23

Katahdin Analytical Services

GC Laboratory Instrument Runlog
Instrument: GC01
Amount Injected: 2 uL
Column Numbers: 586,587
Method: SW846 8011 / 8081 / 8082 / 8151
(circle) EPA 504.1 / 556

Hexane Lot #	230897
Standard	Standard ID
INDAB 0.05, 0.025	P0941, 942
TOX 1.0, 0.5	P0944, 945
TC 0.5, 0.25	P0947, 948
EVAL	P0939

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
10/3/23	AD	10100029	TOX 0.5	Y	WG343429-6	PEST263	
↓	↓	↓ 30	TC 0.25	Y	↓ -7	↓	
10/6/23	AD	10100031-32	PRIME	N	WG343057	PEST263	
↓	↓	33	EVAL	Y	-1	↓	<15%
		34	INDAB 0.05	Y	-2		
		35	TOX 1.0	Y	-3		
		36	TC 0.5	Y	-4		
		37	WG343476-1	Y			Blank
		38	-2	Y			LCS
		39	-3	Y			LCSD
		40	-4	Y			TOX LCS
		41	↓ -5	Y			TC LCS TC & B
		42	SQ5108-IRE	Y			
		43	SQ5109-IRF	Y			
		44	WG342881-1	Y			Blank
		45	↓ -2	Y			LCS alpha-Chlordane & B
		46	↓ -3	Y			LCSD
		47	SQ4870-1DL	Y			1:10DL 50:450
		48	SQ5016-1DL	Y			↓ ↓
		49-50	HEXANE	N			RINSE
		51	INDAB 0.025	Y	-5		Endrin, ODT, methoxychlor & A, B matrix interference
		52	TOX 0.5	Y	-6		
↓	↓	↓ 53	TC 0.25	Y	↓ -7	↓	

TCLP HERBICIDE DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **SDG:** SQ5108 **Matrix:** AQ

Client Sample ID	Lab Sample ID	Col. ID	DCPA	#
DOW-AQWC-01	SQ5108-1	A	109.	
DOW-AQWC-01	SQ5108-1	B	102.	
Method Blank	WG343382-1	A	119.	
Method Blank	WG343382-1	B	107.	
Laboratory Control S	WG343382-2	A	115.	
Laboratory Control S	WG343382-2	B	106.	
Laboratory Control S	WG343382-3	A	117.	
Laboratory Control S	WG343382-3	B	111.	

Abbr.	Surrogate Compound	QC Limits
DCPA	2,4-Dichlorophenylacetic Acid	32-138

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Lab File ID : 8QJ00284.D
Instrument ID : GC08
Matrix : AQ

SDG : SQ5108
Lab Sample ID : WG343382-1
Date Extracted : 02-OCT-23
Extraction Method : SW846 3510C

Column A
Date Analyzed : 11-OCT-23
Time Analyzed : 15:48

Column B
Date Analyzed : 11-OCT-23
Time Analyzed : 15:48

This Method Blank applies to the following samples and QC samples:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG343382-2	8QJ00285.I	10/11/23	16:13
Laboratory Control S	WG343382-3	8QJ00286.I	10/11/23	16:38
DOW-AQWC-01	SQ5108-1	8QJ00288.I	10/11/23	17:28

Form 8
Analytical Sequence

Lab Name: Katahdin Analytical Services **SDG:** SQ5108

Instrument ID: GC08 **Column ID:** A

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	DCPA	
Initial Calibration	WG339228-1	07/10/23	11:53	11.72	
Initial Calibration	WG339228-2	07/10/23	12:17	11.73	
Initial Calibration	WG339228-3	07/10/23	12:42	11.73	
Initial Calibration	WG339228-4	07/10/23	13:07	11.74	
Initial Calibration	WG339228-5	07/10/23	13:32	11.74	
Initial Calibration	WG339228-6	07/10/23	13:57	11.72	
Independent Source	WG339228-7	07/10/23	14:22		
Continuing Calibrati	WG343780-1	10/11/23	13:58	11.53	
Method Blank	WG343382-1	10/11/23	15:48	11.52	
Laboratory Control S	WG343382-2	10/11/23	16:13	11.51	
Laboratory Control S	WG343382-3	10/11/23	16:38	11.52	
DOW-AQWC-01	SQ5108-1	10/11/23	17:28	11.57	
Continuing Calibrati	WG343780-2	10/11/23	22:05		

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Form 8
Analytical Sequence

Lab Name: Katahdin Analytical Services **SDG:** SQ5108

Instrument ID: GC08 **Column ID:** B

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	DCPA	
Initial Calibration	WG339228-1	07/10/23	11:53	12.54	
Initial Calibration	WG339228-2	07/10/23	12:17	12.54	
Initial Calibration	WG339228-3	07/10/23	12:42	12.54	
Initial Calibration	WG339228-4	07/10/23	13:07	12.55	
Initial Calibration	WG339228-5	07/10/23	13:32	12.55	
Initial Calibration	WG339228-6	07/10/23	13:57	12.54	
Independent Source	WG339228-7	07/10/23	14:22		
Continuing Calibrati	WG343780-1	10/11/23	13:58	12.30	
Method Blank	WG343382-1	10/11/23	15:48	12.29	
Laboratory Control S	WG343382-2	10/11/23	16:13	12.31	
Laboratory Control S	WG343382-3	10/11/23	16:38	12.32	
DOW-AQWC-01	SQ5108-1	10/11/23	17:28	12.37	
Continuing Calibrati	WG343780-2	10/11/23	22:05		

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Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL, "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery or percent RPD (relative percent difference) was outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

And/or

J Used for Dual Column analytes when there is a greater than 40% difference for detected concentrations between the two GC/HPLC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

I Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration (ICAL).

D Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration Verification (ICV).

C Indicates that the flagged compound did not meet DoD criteria in the corresponding opening Calibration Verification (CV).

V Indicates that the flagged compound did not meet DoD criteria in the corresponding closing Calibration Verification (CV).

L/LL Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M/MM Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike (MS) and/or Matrix Spike Duplicate MSD) prepared and/or analyzed concurrently with the native sample.

H Indicates the flagged compound was detected on the primary column but was not detected on the confirmation column therefore the compound is not reported as a positive detection. (SW846 8330A/B only)

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5108
Lab ID: SQ5108-1
Client ID: DOW-AQWC-01
Matrix: AQ
Lab File ID: 8QJ00288.D

Sample Date: 21-SEP-23
Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: 3510C/1311
Lab Prep Batch: WG343382

Report Date: 19-OCT-23
Analysis Date: 11-OCT-23
Analyst: SR
Analysis Method: SW846 8151A
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
2,4-D	U	7.5	ug/L	1	3	15.	3.8	7.5
Silvex	U	7.5	ug/L	1	3	15.	3.8	7.5
2,4-Dichlorophenylacetic Acid		109.	%					

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Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00288.D
Report Date: 19-Oct-2023 10:15

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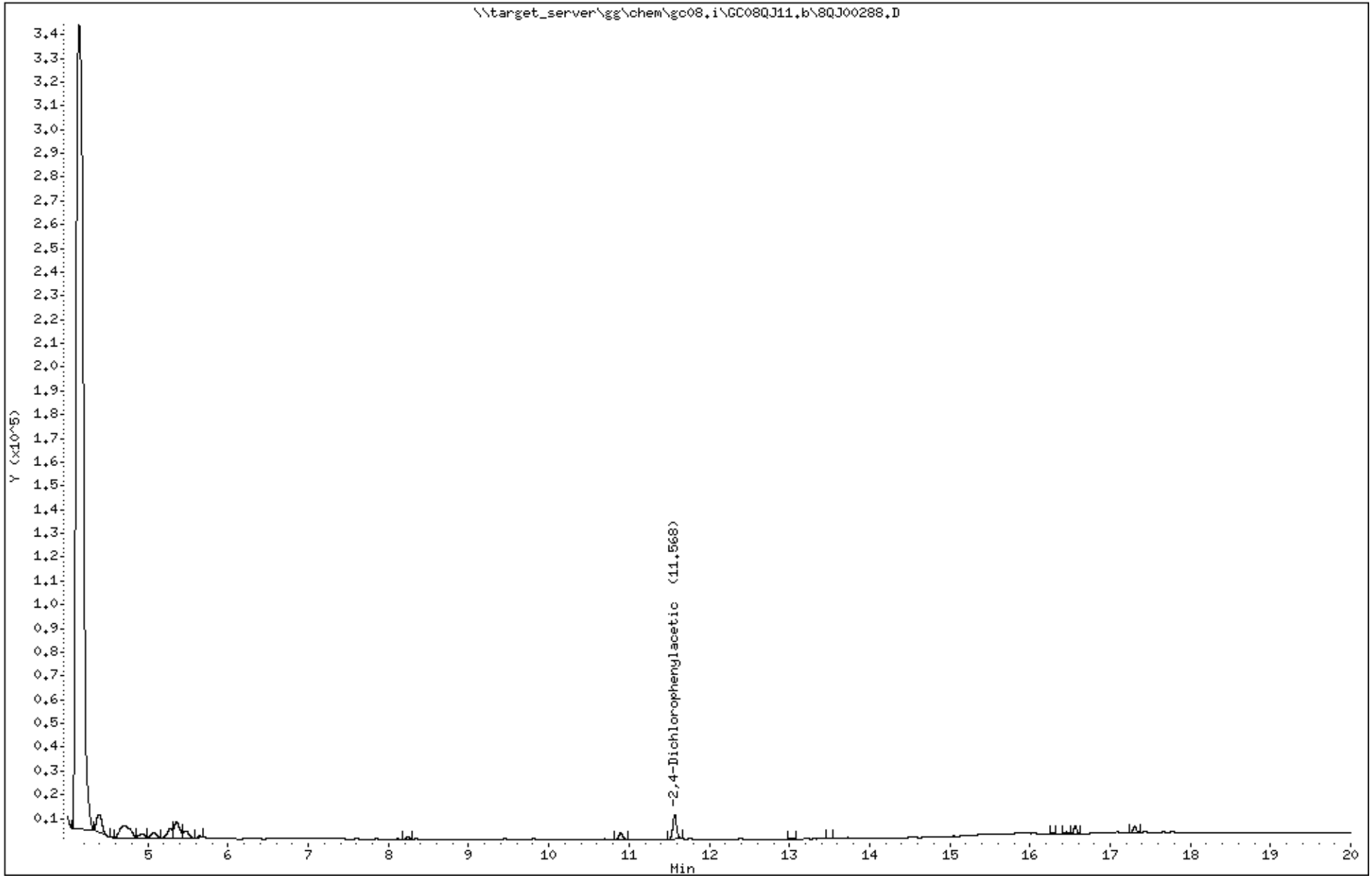
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Lab Smp Id: SQ5108-1 Client Smp ID: DOW-AQWC-01
Inj Date : 11-OCT-2023 17:28
Operator : SR Inst ID: gc08.i
Smp Info : SQ5108-1
Misc Info : WG343780,WG343382,WG339228-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m
Meth Date : 12-Oct-2023 16:51 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	0.20000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng/uL)	(ug/L)	REVIEW CODE
$ 2 2,4-Dichlorophenylacetic Acid	11.568	11.543	0.025	10234	0.58368	27.3	

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00288.D
Date : 11-OCT-2023 17:28
Client ID: DOW-AQWC-01
Instrument: gc08.i
Sample Info: SQ5108-1
Purge Volume: 0.2
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



Data File: 8QJ00288.D
Report Date: 19-Oct-2023 10:15

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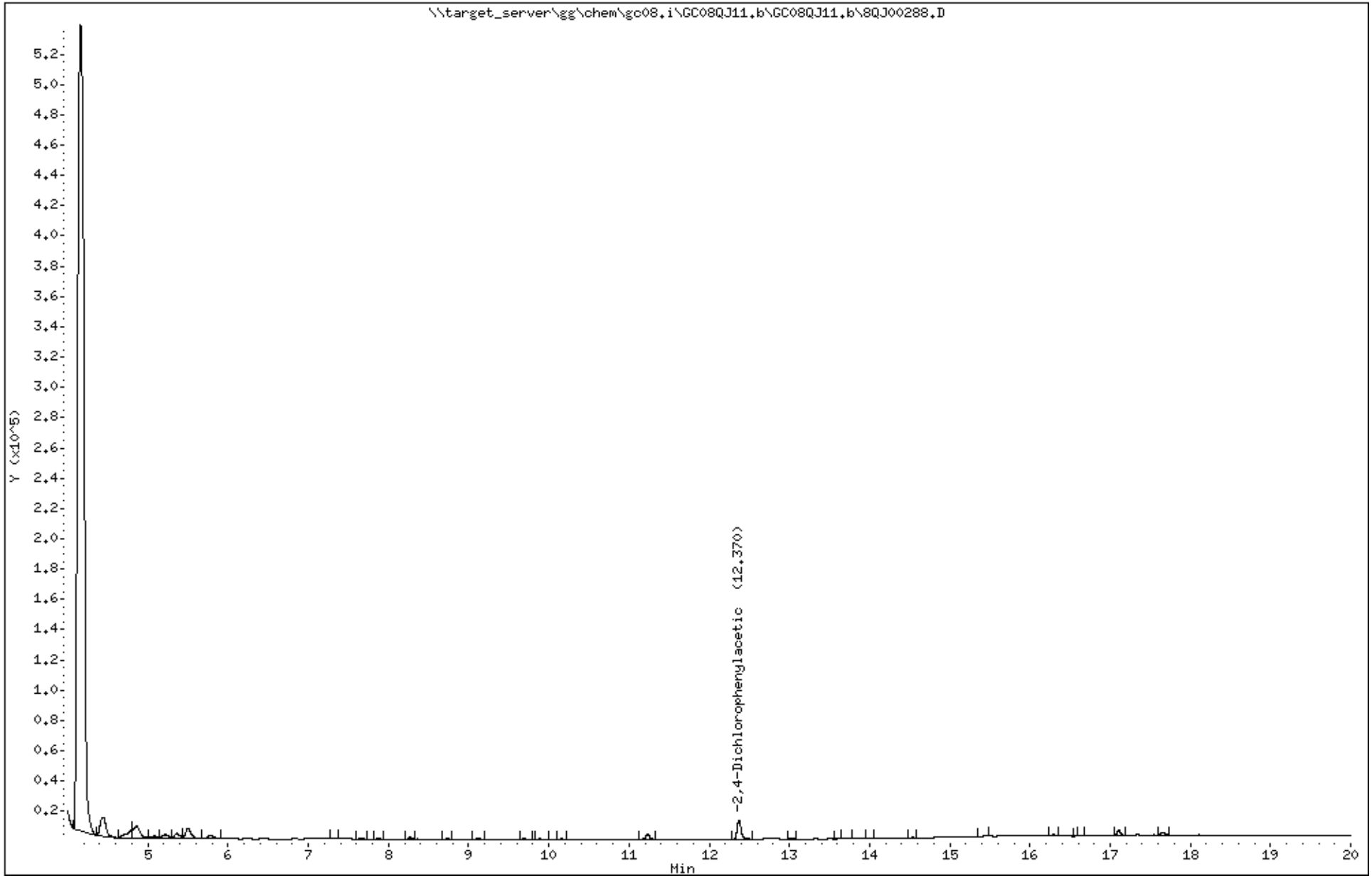
Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00288.D
Lab Smp Id: SQ5108-1 Client Smp ID: DOW-AQWC-01
Inj Date : 11-OCT-2023 17:28
Operator : SR Inst ID: gc08.i
Smp Info : SQ5108-1
Misc Info : WG343780,WG343382,WG339228-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m\HERB150.m
Meth Date : 12-Oct-2023 16:52 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	0.20000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 2 2,4-Dichlorophenylacetic Acid	12.370	12.347	0.023	12814	0.54216	25.4	

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00288.D
Date : 11-OCT-2023 17:28
Client ID: DOW-AQWC-01
Instrument: gc08.i
Sample Info: SQ5108-1
Purge Volume: 0.2
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5108

Instrument ID: GC08 **Column ID:** A

Lab File IDs : 8QG00066.D8QG00065.D8QG00061.D 8QG00064.D8QG00063.D8QG00062.D **Calibration Date(s):** 10-JUL-23 11:53 10-JUL-23 13:57

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	0.100000(	0.250000(	0.500000(	0.750000(	1.0000	2.0000	Type	b	m1	m2	Result	Limit	
2,4-D	24920	25988	27438	27289	28108	29705	AVG		27241		6.10268	20	O
Silvex	137340	147560	147550	148360	147252	140887	AVG		144825		3.16159	20	O
2,4-Dichlorophenylacetic Ac	16950	17058	17562	17481	17619	18532	AVG		17534		3.19947	20	

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SQ5108

Instrument ID: GC08 **Column ID:** B

Lab File IDs : 8QG00066.D8QG00065.D8QG00061.D 8QG00064.D8QG00063.D8QG00062.D **Calibration Date(s):** 10-JUL-23 11:53 10-JUL-23 13:57

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				%RSD or R^2		
	0.100000(	0.250000(	0.500000(	0.750000(	1.0000	2.0000	Type	b	m1	m2	Result	Limit	
2,4-D	26850	31168	35274	36765	38828	41505	AVG		35065		15.1572(	20	O
Silvex	153930	180076	194300	190557	191527	186332	AVG		182787		8.19516	20	O
2,4-Dichlorophenylacetic Ac	21505	22742	23704	24069	24249	25541	AVG		23635		5.84339	20	

Legend: O = Acceptable; W = Failed %RSD Value; X = Failed R^2 Value; Y = Failed Minimum RF

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Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00067.D
Report Date: 11-Jul-2023 09:30

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa01696
Sample Matrix: LIQUID Fraction: Herbicides
Lab Smp Id: HERB IND 0.5
Level: MED Operator: SR
Data Type: GC DATA SampleType: INDSOURCE
SpikeList File: IND.spk Quant Type: ESTD
Sublist File: IND.sub
Method File: \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m
Misc Info: WG339228,WG339228,WG339228-1,SQ2027-1

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dalapon	0.455	0.392	86.13	80-120
3 Dicamba	0.495	0.500	100.98	80-120
4 MCPP	46.9	46.7	99.59	80-120
5 MCPA	46.7	45.3	96.92	80-120
6 Dichloroprop	0.472	0.425	90.08	80-120
7 2,4-D	0.470	0.428	91.08	80-120
8 Pentachlorophenol	0.475	0.449	94.52	80-120
9 Silvex	0.475	0.493	103.88	80-120
10 2,4,5-T	0.474	0.493	104.04	80-120
11 2,4-DB	0.473	0.550	116.20	80-120
12 Dinoseb	0.472	0.491	104.00	80-120

Data File: 8QG00067.D
Report Date: 11-Jul-2023 09:30

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa01696
Sample Matrix: LIQUID Fraction: Herbicides
Lab Smp Id: HERB IND 0.5
Level: MED Operator: SR
Data Type: GC DATA SampleType: INDSOURCE
SpikeList File: IND.spk Quant Type: ESTD
Sublist File: IND.sub
Method File: \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m\HERB150.m
Misc Info: WG339228,WG339228,WG339228-1,SQ2027-1

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dalapon	0.455	0.439	96.48	80-120
3 Dicamba	0.495	0.507	102.35	80-120
4 MCPP	46.9	47.3	100.80	80-120
5 MCPA	46.7	45.6	97.57	80-120
6 Dichloroprop	0.472	0.422	89.45	80-120
7 2,4-D	0.470	0.408	86.89	80-120
8 Pentachlorophenol	0.475	0.506	106.62	80-120
9 Silvex	0.475	0.498	104.88	80-120
10 2,4,5-T	0.474	0.506	106.71	80-120
11 2,4-DB	0.473	0.458	96.82	80-120
12 Dinoseb	0.472	0.497	105.31	80-120

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00061.D
Report Date: 11-Jul-2023 09:27

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00061.D
Lab Smp Id: HERB 0.5
Inj Date : 10-JUL-2023 11:53
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-1
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m
Meth Date : 10-Jul-2023 14:32 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 11:53   Cal File: 8QG00061.D
Als bottle: 2   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

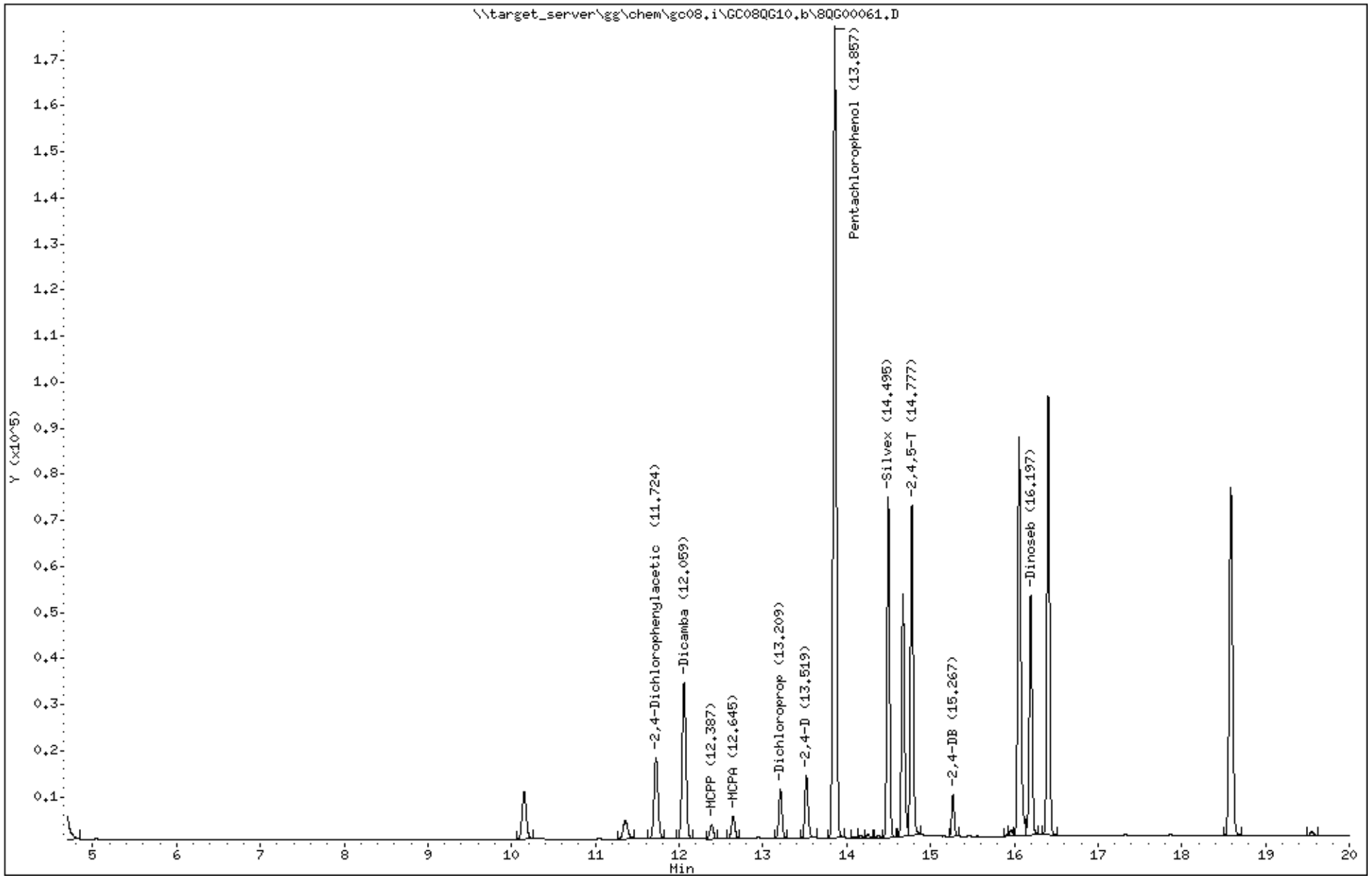
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.670	4.670	0.000	37094	0.50000	0.500(a)	
$ 2	2,4-Dichlorophenylacetic Acid	11.723	11.724	-0.001	17562	1.00000	1.00	
3	Dicamba	12.058	12.059	-0.001	33869	0.50000	0.500(a)	
4	MCPP	12.387	12.387	0.000	3044	50.0000	50.0(a)	
5	MCPA	12.645	12.645	0.000	4848	50.0000	50.0(a)	
6	Dichloroprop	13.208	13.209	-0.001	10670	0.50000	0.500(a)	
7	2,4-D	13.518	13.519	-0.001	13719	0.50000	0.500(a)	
8	Pentachlorophenol	13.857	13.857	0.000	472876	0.50000	0.500(a)	
9	Silvex	14.495	14.495	0.000	73775	0.50000	0.500(a)	
10	2,4,5-T	14.777	14.777	0.000	163557	0.50000	0.500(a)	
11	2,4-DB	15.267	15.267	0.000	9006	0.50000	0.500(a)	
12	Dinoseb	16.197	16.197	0.000	51910	0.50000	0.500(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00061.D
Date : 10-JUL-2023 11:53
Client ID:
Instrument: gc08.i
Sample Info: WG339228-1
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



Data File: 8QG00061.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00061.D
Lab Smp Id: HERB 0.5
Inj Date : 10-JUL-2023 11:53
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-1
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m\HERB150.m
Meth Date : 10-Jul-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 11:53   Cal File: 8QG00061.D
Als bottle: 2   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

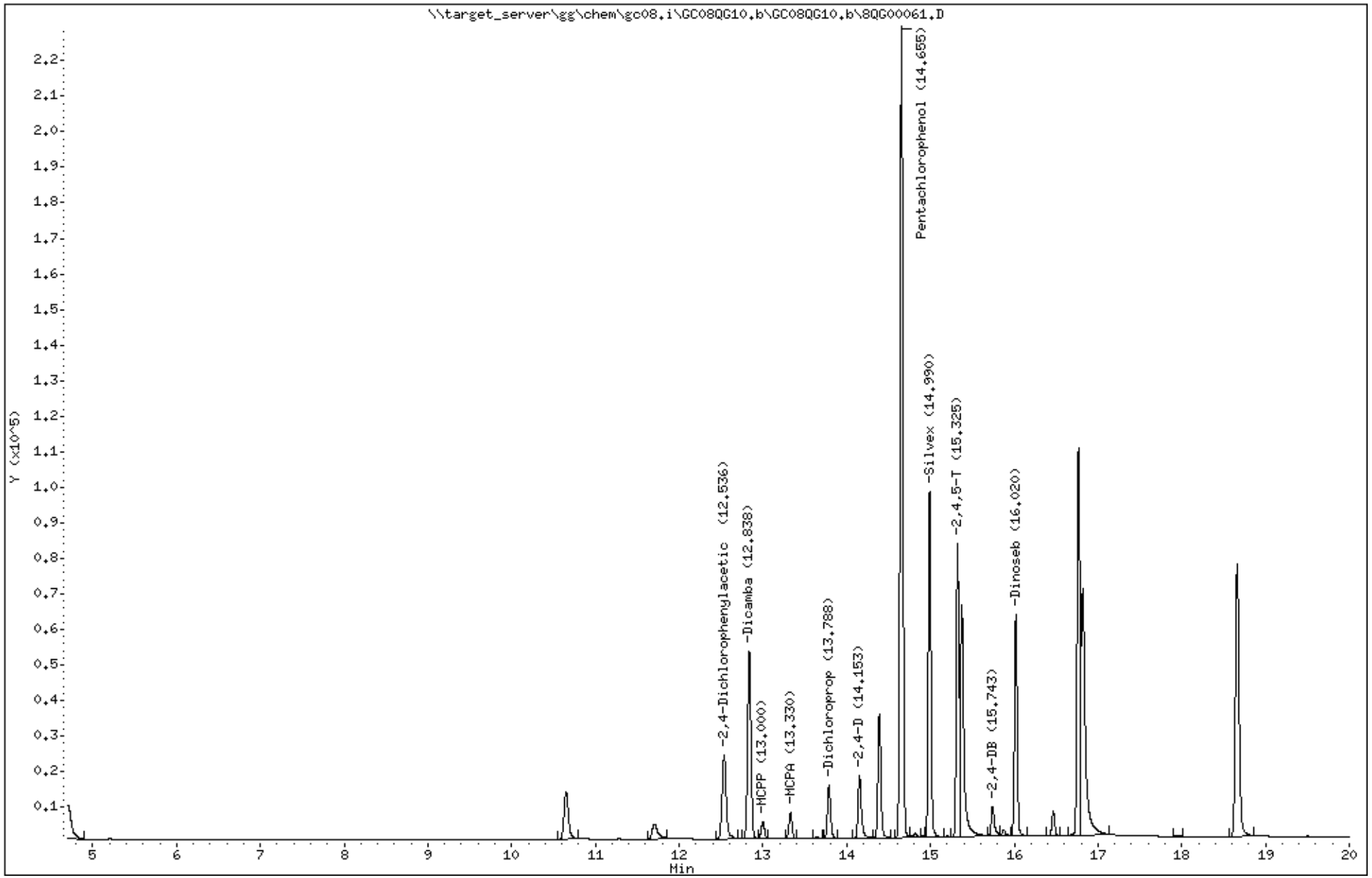
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.702	4.703	-0.001	9520	0.50000	0.500(a)	
$ 2	2,4-Dichlorophenylacetic Acid	12.536	12.536	0.000	23704	1.00000	1.00	
3	Dicamba	12.837	12.838	-0.001	52665	0.50000	0.500(a)	
4	MCPP	12.999	13.000	-0.001	12850	50.0000	50.0(a)	
5	MCPA	13.329	13.330	-0.001	19149	50.0000	50.0(a)	
6	Dichloroprop	13.787	13.788	-0.001	15130	0.50000	0.500(a)	
7	2,4-D	14.152	14.153	-0.001	17637	0.50000	0.500(a)	
8	Pentachlorophenol	14.654	14.655	-0.001	228314	0.50000	0.500(a)	
9	Silvex	14.989	14.990	-0.001	97150	0.50000	0.500(a)	
10	2,4,5-T	15.324	15.325	-0.001	82446	0.50000	0.500(a)	
11	2,4-DB	15.742	15.743	-0.001	8410	0.50000	0.500(a)	
12	Dinoseb	16.019	16.020	-0.001	62286	0.50000	0.500(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00061.D
Date : 10-JUL-2023 11:53
Client ID:
Instrument: gc08.i
Sample Info: WG339228-1
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00062.D
Report Date: 11-Jul-2023 09:27

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00062.D
Lab Smp Id: HERB 2.0
Inj Date : 10-JUL-2023 12:17
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-2
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m
Meth Date : 10-Jul-2023 14:32 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 12:17   Cal File: 8QG00062.D
Als bottle: 3   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

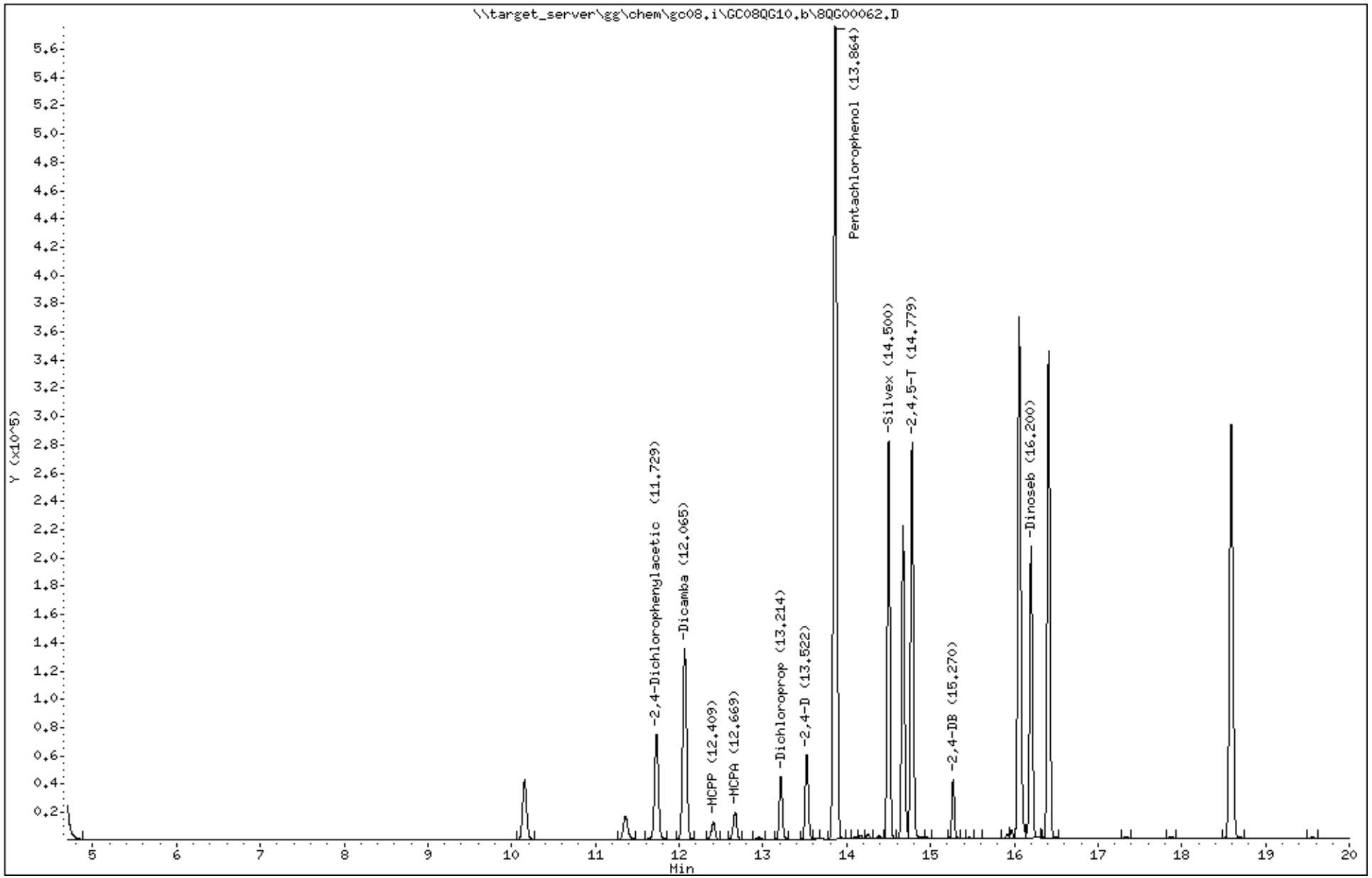
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.675	4.670	0.005	162538	2.00000	2.09(aA)	
$ 2	2,4-Dichlorophenylacetic Acid	11.728	11.724	0.004	74126	4.00000	4.11(A)	
3	Dicamba	12.065	12.059	0.006	134860	2.00000	2.00(a)	
4	MCPP	12.408	12.387	0.021	12091	200.000	199	
5	MCPA	12.668	12.645	0.023	19203	200.000	199	
6	Dichloroprop	13.213	13.209	0.004	44534	2.00000	2.04(aA)	
7	2,4-D	13.522	13.519	0.003	59409	2.00000	2.08(aA)	
8	Pentachlorophenol	13.863	13.857	0.006	1659205	2.00000	1.87(aA)	
9	Silvex	14.500	14.495	0.005	281774	2.00000	1.95(a)	
10	2,4,5-T	14.778	14.777	0.001	664137	2.00000	2.02(aA)	
11	2,4-DB	15.270	15.267	0.003	41848	2.00000	2.15(aA)	
12	Dinoseb	16.200	16.197	0.003	206579	2.00000	1.99(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00062.D
Date : 10-JUL-2023 12:17
Client ID:
Instrument: gc08.i
Sample Info: WG339228-2
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



Data File: 8QG00062.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00062.D
Lab Smp Id: HERB 2.0
Inj Date : 10-JUL-2023 12:17
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-2
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m\HERB150.m
Meth Date : 10-Jul-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 12:17   Cal File: 8QG00062.D
Als bottle: 3   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

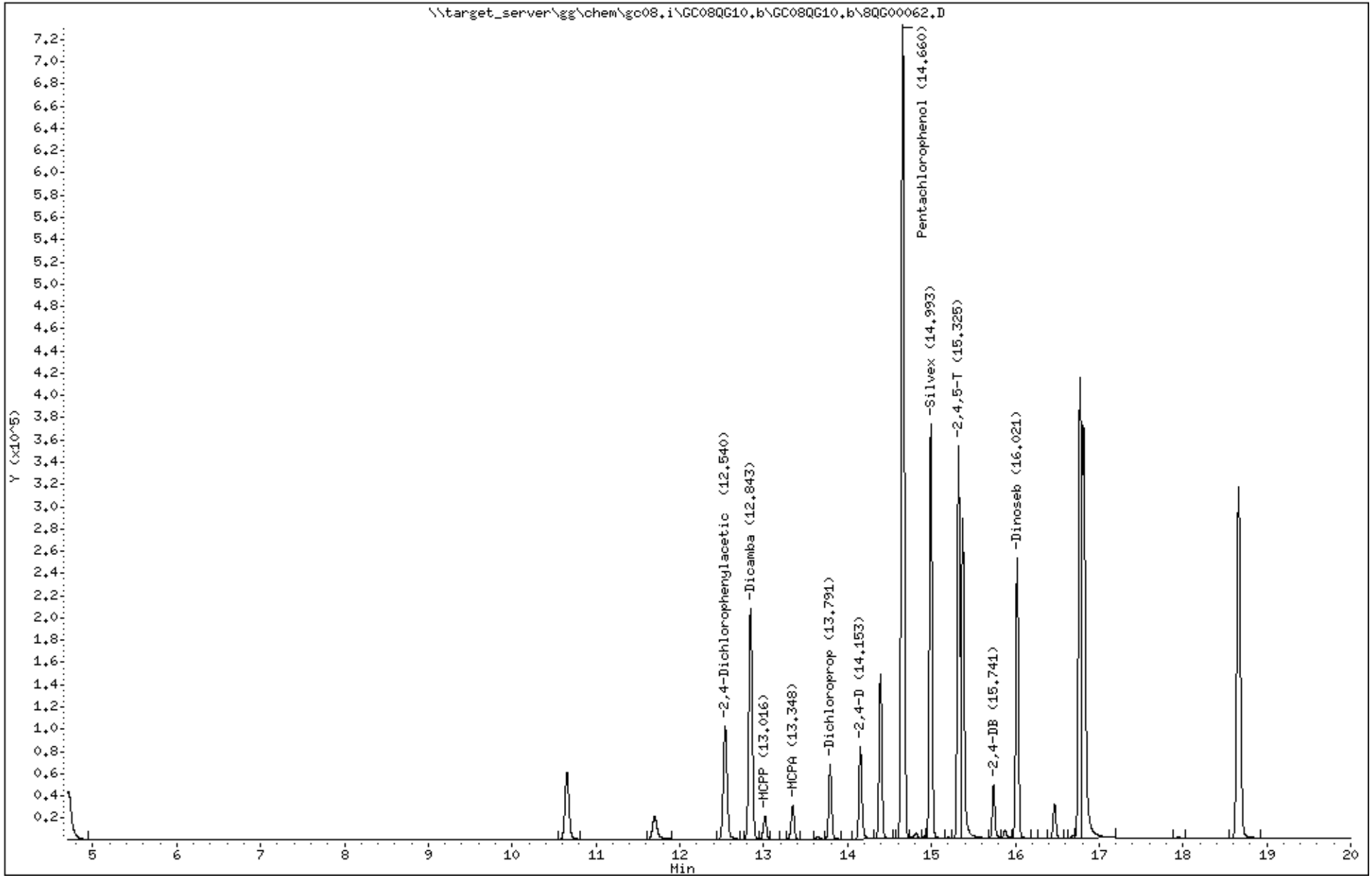
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.707	4.703	0.004	42585	2.00000	2.11(aA)	
$ 2	2,4-Dichlorophenylacetic Acid	12.539	12.536	0.003	102164	4.00000	4.15(A)	
3	Dicamba	12.842	12.838	0.004	206740	2.00000	1.98(a)	
4	MCPP	13.016	13.000	0.016	52969	200.000	203(A)	
5	MCPA	13.347	13.330	0.017	78032	200.000	202(A)	
6	Dichloroprop	13.791	13.788	0.003	66718	2.00000	2.10(aA)	
7	2,4-D	14.152	14.153	-0.001	83010	2.00000	2.16(aA)	
8	Pentachlorophenol	14.659	14.655	0.004	731727	2.00000	1.78(a)	
9	Silvex	14.992	14.990	0.002	372663	2.00000	1.96(a)	
10	2,4,5-T	15.324	15.325	-0.001	353230	2.00000	2.07(aA)	
11	2,4-DB	15.741	15.743	-0.002	47954	2.00000	2.02(aA)	
12	Dinoseb	16.021	16.020	0.001	252084	2.00000	2.01(aA)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00062.D
Date : 10-JUL-2023 12:17
Client ID:
Instrument: gc08.i
Sample Info: WG339228-2
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00063.D
Report Date: 11-Jul-2023 09:27

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00063.D
Lab Smp Id: HERB 1.0
Inj Date : 10-JUL-2023 12:42
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-3
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m
Meth Date : 10-Jul-2023 14:32 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 12:42   Cal File: 8QG00063.D
Als bottle: 4   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

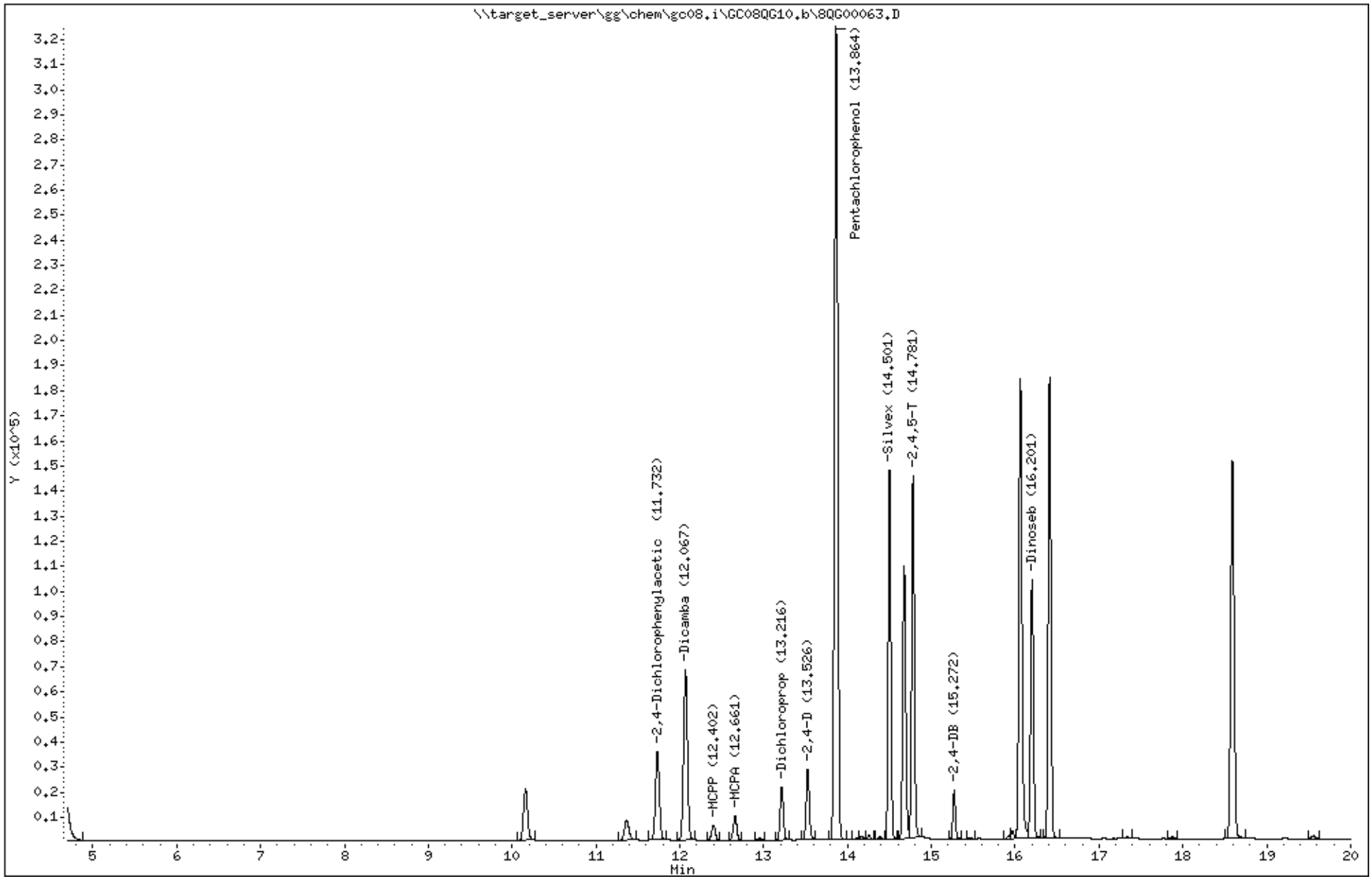
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.687	4.670	0.017	74381	1.00000	0.971(a)	
$ 2	2,4-Dichlorophenylacetic Acid	11.732	11.724	0.008	35238	2.00000	1.97	
3	Dicamba	12.067	12.059	0.008	67583	1.00000	1.000(a)	
4	MCPP	12.402	12.387	0.015	5955	100.000	98.8(a)	
5	MCPA	12.660	12.645	0.015	9471	100.000	98.8(a)	
6	Dichloroprop	13.215	13.209	0.006	21183	1.00000	0.981(a)	
7	2,4-D	13.525	13.519	0.006	28108	1.00000	0.989(a)	
8	Pentachlorophenol	13.863	13.857	0.006	898369	1.00000	1.01(aA)	
9	Silvex	14.500	14.495	0.005	147252	1.00000	1.01(a)	
10	2,4,5-T	14.780	14.777	0.003	331742	1.00000	1.00(a)	
11	2,4-DB	15.272	15.267	0.005	19388	1.00000	0.997(a)	
12	Dinoseb	16.200	16.197	0.003	102850	1.00000	0.995(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00063.D
Date : 10-JUL-2023 12:42
Client ID:
Instrument: gc08.i
Sample Info: WG339228-3
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



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Data File: 8QG00063.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00063.D
Lab Smp Id: HERB 1.0
Inj Date : 10-JUL-2023 12:42
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-3
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m\HERB150.m
Meth Date : 10-Jul-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 12:42   Cal File: 8QG00063.D
Als bottle: 4   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

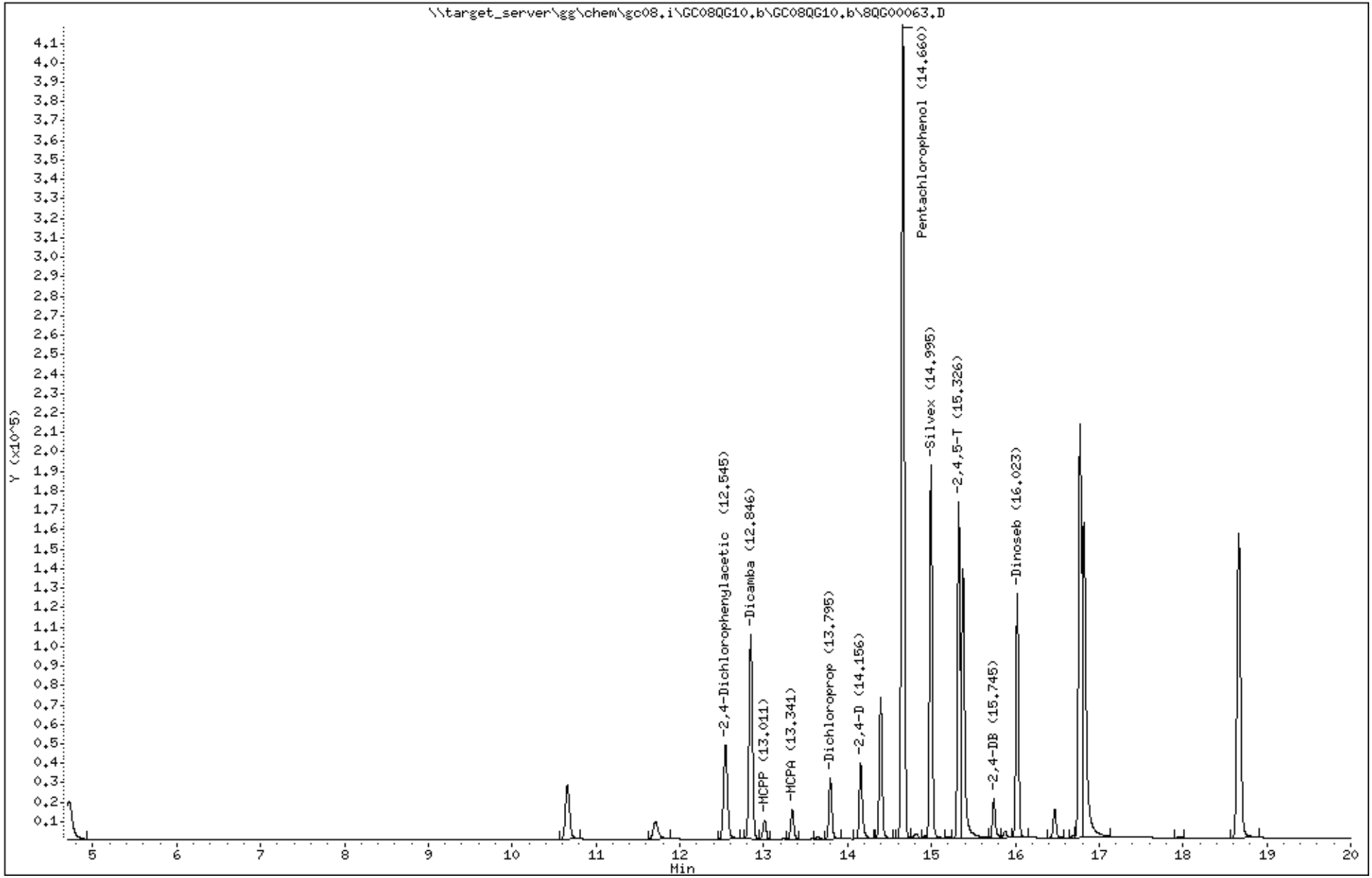
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.718	4.703	0.015	19266	1.00000	0.970(a)	
$ 2	2,4-Dichlorophenylacetic Acid	12.544	12.536	0.008	48497	2.00000	1.98	
3	Dicamba	12.846	12.838	0.008	104794	1.00000	1.00(a)	
4	MCPP	13.011	13.000	0.011	25718	100.000	99.0(a)	
5	MCPA	13.341	13.330	0.011	37733	100.000	98.4(a)	
6	Dichloroprop	13.794	13.788	0.006	31344	1.00000	0.990(a)	
7	2,4-D	14.156	14.153	0.003	38828	1.00000	1.01(a)	
8	Pentachlorophenol	14.659	14.655	0.004	418100	1.00000	1.01(a)	
9	Silvex	14.994	14.990	0.004	191527	1.00000	1.00(a)	
10	2,4,5-T	15.326	15.325	0.001	172807	1.00000	1.01(a)	
11	2,4-DB	15.744	15.743	0.001	19726	1.00000	1.02(a)	
12	Dinoseb	16.023	16.020	0.003	125053	1.00000	0.999(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00063.D
Date : 10-JUL-2023 12:42
Client ID:
Instrument: gc08.i
Sample Info: WG339228-3
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00064.D
Report Date: 11-Jul-2023 09:28

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Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00064.D
Lab Smp Id: HERB 0.75
Inj Date : 10-JUL-2023 13:07
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-4
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m
Meth Date : 10-Jul-2023 14:32 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:07   Cal File: 8QG00064.D
Als bottle: 5   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

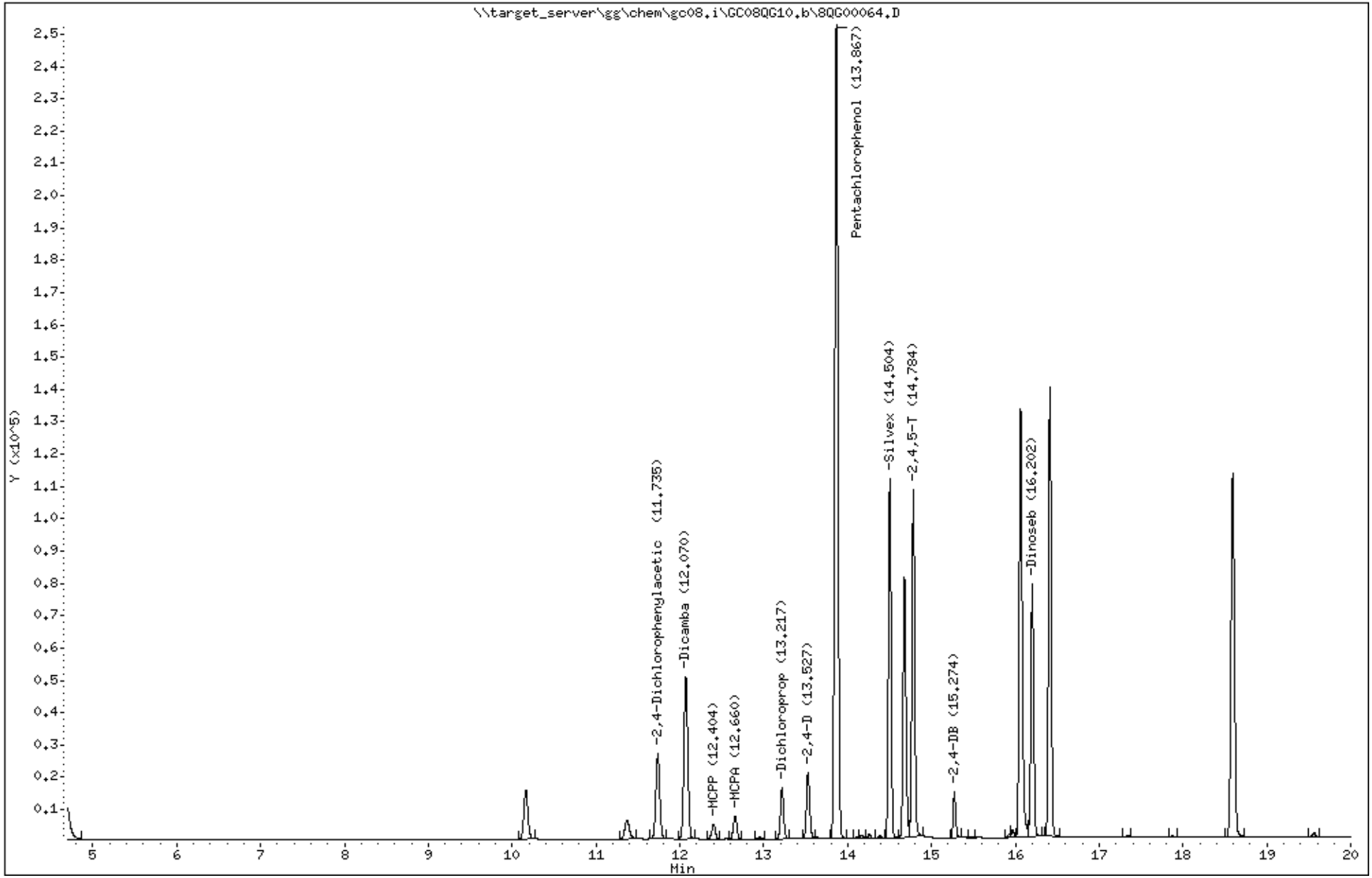
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.690	4.670	0.020	54819	0.75000	0.724(a)	
$ 2	2,4-Dichlorophenylacetic Acid	11.735	11.724	0.011	26221	1.50000	1.47	
3	Dicamba	12.070	12.059	0.011	50147	0.75000	0.744(a)	
4	MCPP	12.403	12.387	0.016	4520	75.0000	75.0(a)	
5	MCPA	12.660	12.645	0.015	7138	75.0000	74.6(a)	
6	Dichloroprop	13.216	13.209	0.007	15761	0.75000	0.735(a)	
7	2,4-D	13.526	13.519	0.007	20467	0.75000	0.727(a)	
8	Pentachlorophenol	13.866	13.857	0.009	688675	0.75000	0.767(a)	
9	Silvex	14.503	14.495	0.008	111270	0.75000	0.762(a)	
10	2,4,5-T	14.783	14.777	0.006	247874	0.75000	0.750(a)	
11	2,4-DB	15.273	15.267	0.006	13969	0.75000	0.726(a)	
12	Dinoseb	16.201	16.197	0.004	78032	0.75000	0.754(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00064.D
Date : 10-JUL-2023 13:07
Client ID:
Instrument: gc08.i
Sample Info: WG339228-4
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



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Data File: 8QG00064.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00064.D
Lab Smp Id: HERB 0.75
Inj Date : 10-JUL-2023 13:07
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-4
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m\HERB150.m
Meth Date : 10-Jul-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:07   Cal File: 8QG00064.D
Als bottle: 5   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

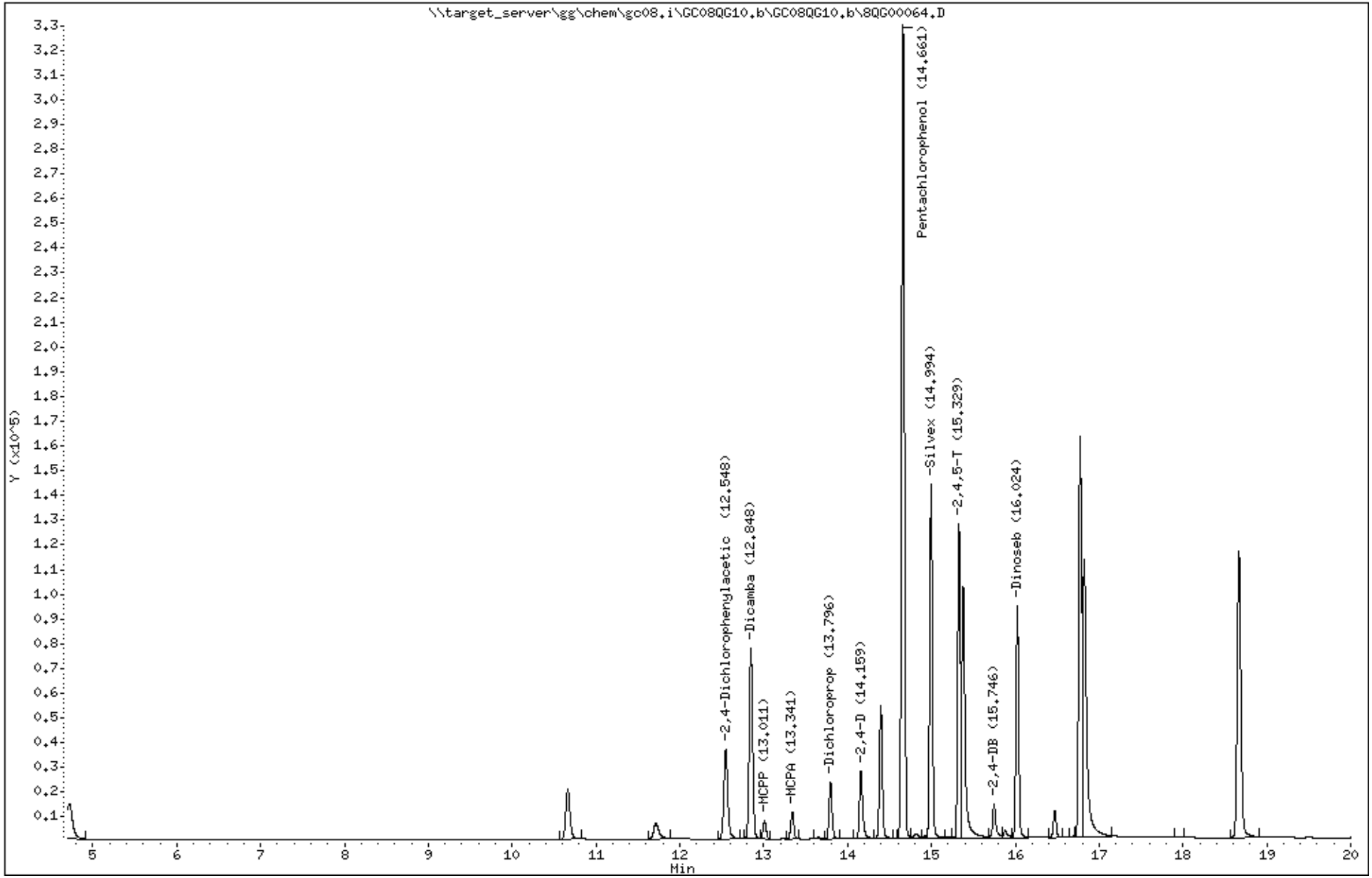
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
	1 Dalapon	4.722	4.703	0.019	13965	0.75000	0.724(a)	
$	2 2,4-Dichlorophenylacetic Acid	12.547	12.536	0.011	36104	1.50000	1.53	
	3 Dicamba	12.847	12.838	0.009	77281	0.75000	0.756(a)	
	4 MCPP	13.011	13.000	0.011	19153	75.0000	74.4(a)	
	5 MCPA	13.341	13.330	0.011	28257	75.0000	72.6(a)	
	6 Dichloroprop	13.796	13.788	0.008	22923	0.75000	0.745(a)	
	7 2,4-D	14.159	14.153	0.006	27574	0.75000	0.787(a)	
	8 Pentachlorophenol	14.661	14.655	0.006	328847	0.75000	0.761(a)	
	9 Silvex	14.994	14.990	0.004	142918	0.75000	0.782(a)	
	10 2,4,5-T	15.329	15.325	0.004	127115	0.75000	0.830(a)	
	11 2,4-DB	15.746	15.743	0.003	13782	0.75000	0.795(a)	
	12 Dinoseb	16.024	16.020	0.004	93526	0.75000	0.774(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00064.D
Date : 10-JUL-2023 13:07
Client ID:
Instrument: gc08.i
Sample Info: WG339228-4
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00065.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00065.D
Lab Smp Id: HERB 0.25
Inj Date : 10-JUL-2023 13:32
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-5
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m
Meth Date : 10-Jul-2023 14:32 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32   Cal File: 8QG00065.D
Als bottle: 6   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

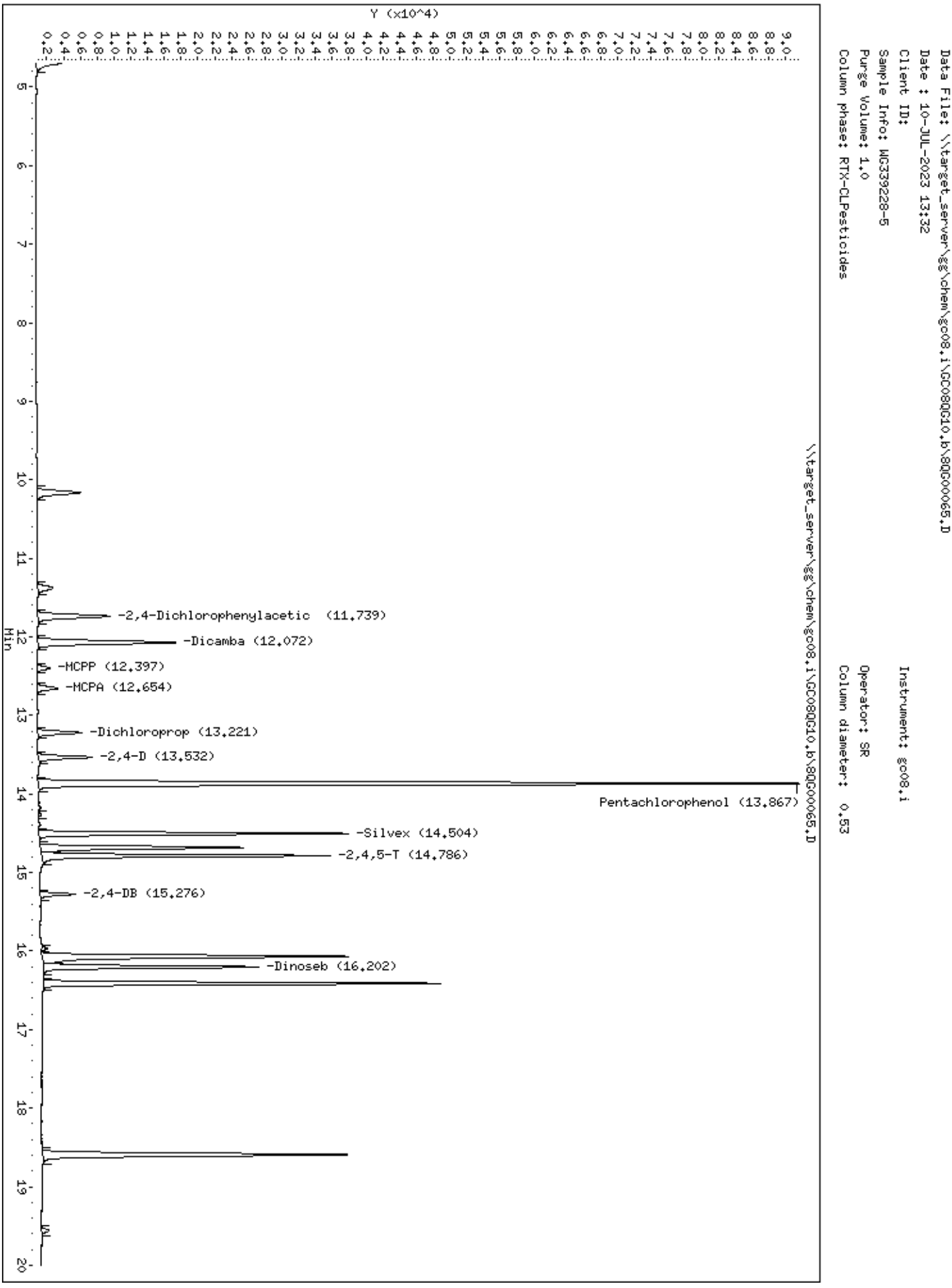
Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.683	4.670	0.013	17670	0.25000	0.240(a)	
$ 2	2,4-Dichlorophenylacetic Acid	11.738	11.724	0.014	8529	0.50000	0.486	
3	Dicamba	12.072	12.059	0.013	16445	0.25000	0.247(a)	
4	MCPP	12.397	12.387	0.010	1550	25.0000	25.5(a)	
5	MCPA	12.653	12.645	0.008	2485	25.0000	25.3(a)	
6	Dichloroprop	13.220	13.209	0.011	5304	0.25000	0.247(a)	
7	2,4-D	13.532	13.519	0.013	6497	0.25000	0.238(a)	
8	Pentachlorophenol	13.867	13.857	0.010	240040	0.25000	0.262(a)	
9	Silvex	14.503	14.495	0.008	36890	0.25000	0.255(a)	
10	2,4,5-T	14.785	14.777	0.008	81664	0.25000	0.248(a)	
11	2,4-DB	15.275	15.267	0.008	4124	0.25000	0.228(a)	
12	Dinoseb	16.202	16.197	0.005	25661	0.25000	0.250(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gs\chem\gc08.i\GC080G10.b\80G00065.D
Date : 10-JUL-2023 13:32
Client ID:
Sample Info: WG339228-5
Purge Volume: 1.0
Column phase: RTX-CLPesticides
Instrument: gc08.i
Operator: SR
Column diameter: 0.53
Y (x10^4)
Min
\\target_server\gs\chem\gc08.i\GC080G10.b\80G00065.D
-2,4-Dichlorophenylacetic (11.739)
-Dicamba (12.072)
-MCPP (12.397)
-MCPA (12.654)
-Dichloroprop (13.221)
-2,4-D (13.532)
Pentachlorophenol (13.867)
-Silvex (14.504)
-2,4,5-T (14.786)
-2,4-DB (15.276)
-Dinoseb (16.202)

Data File: 8QG00065.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00065.D
Lab Smp Id: HERB 0.25
Inj Date : 10-JUL-2023 13:32
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-5
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m\HERB150.m
Meth Date : 10-Jul-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32   Cal File: 8QG00065.D
Als bottle: 6   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

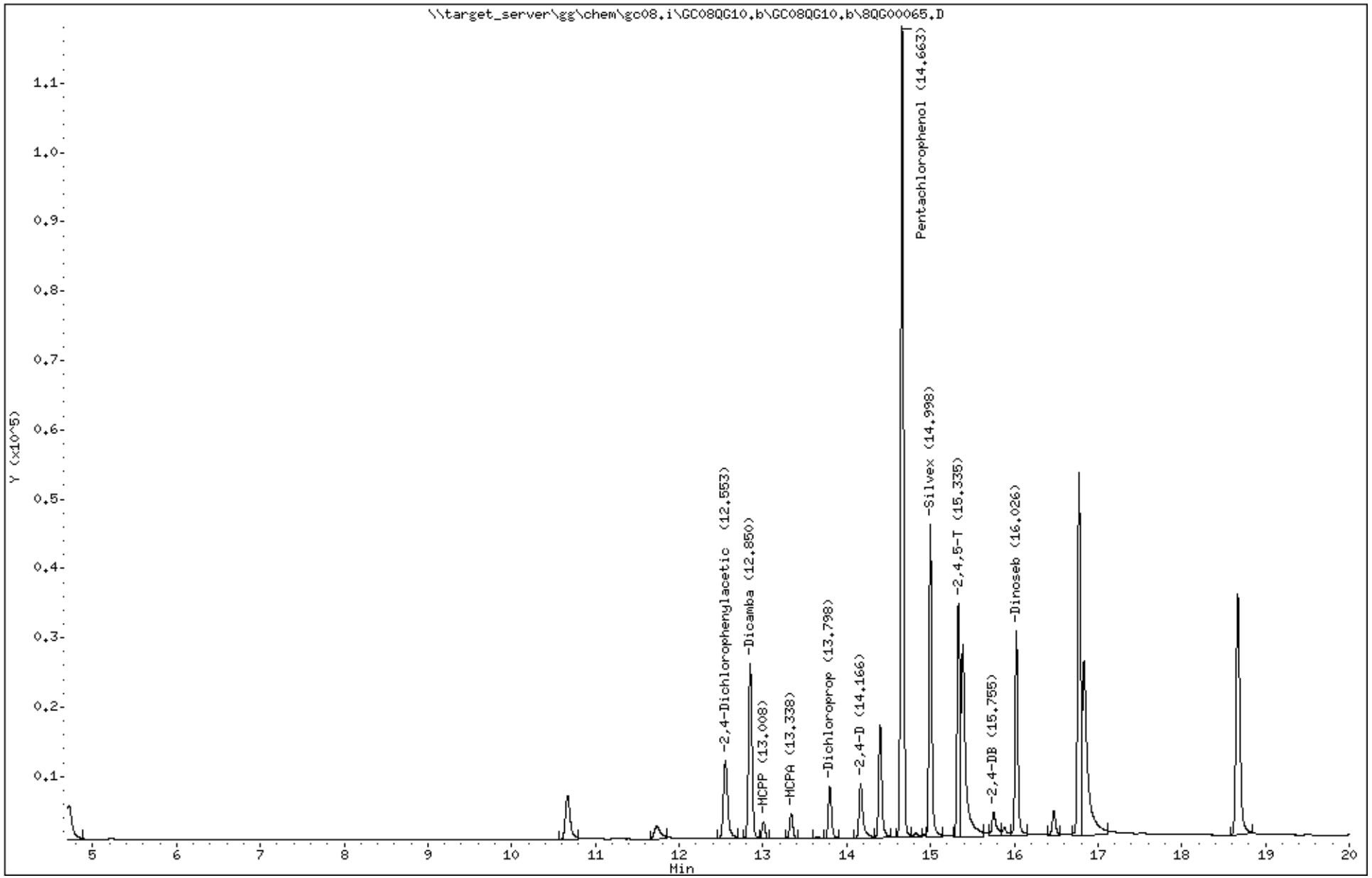
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.714	4.703	0.011	4876	0.25000	0.252(a)	
$ 2	2,4-Dichlorophenylacetic Acid	12.553	12.536	0.017	11371	0.50000	0.481	
3	Dicamba	12.849	12.838	0.011	25268	0.25000	0.247(a)	
4	MCPP	13.008	13.000	0.008	6453	25.0000	25.0(a)	
5	MCPA	13.338	13.330	0.008	9769	25.0000	25.1(a)	
6	Dichloroprop	13.798	13.788	0.010	7437	0.25000	0.242(a)	
7	2,4-D	14.166	14.153	0.013	7792	0.25000	0.222(a)	
8	Pentachlorophenol	14.663	14.655	0.008	117004	0.25000	0.271(a)	
9	Silvex	14.998	14.990	0.008	45019	0.25000	0.246(a)	
10	2,4,5-T	15.334	15.325	0.009	33650	0.25000	0.219(a)	
11	2,4-DB	15.754	15.743	0.011	3454	0.25000	0.197(a)	
12	Dinoseb	16.026	16.020	0.006	29531	0.25000	0.244(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00065.D
Date : 10-JUL-2023 13:32
Client ID:
Instrument: gc08.i
Sample Info: WG339228-5
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00066.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00066.D
Lab Smp Id: HERB 0.1
Inj Date : 10-JUL-2023 13:57
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-6
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m
Meth Date : 10-Jul-2023 14:32 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:57   Cal File: 8QG00066.D
Als bottle: 7   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable



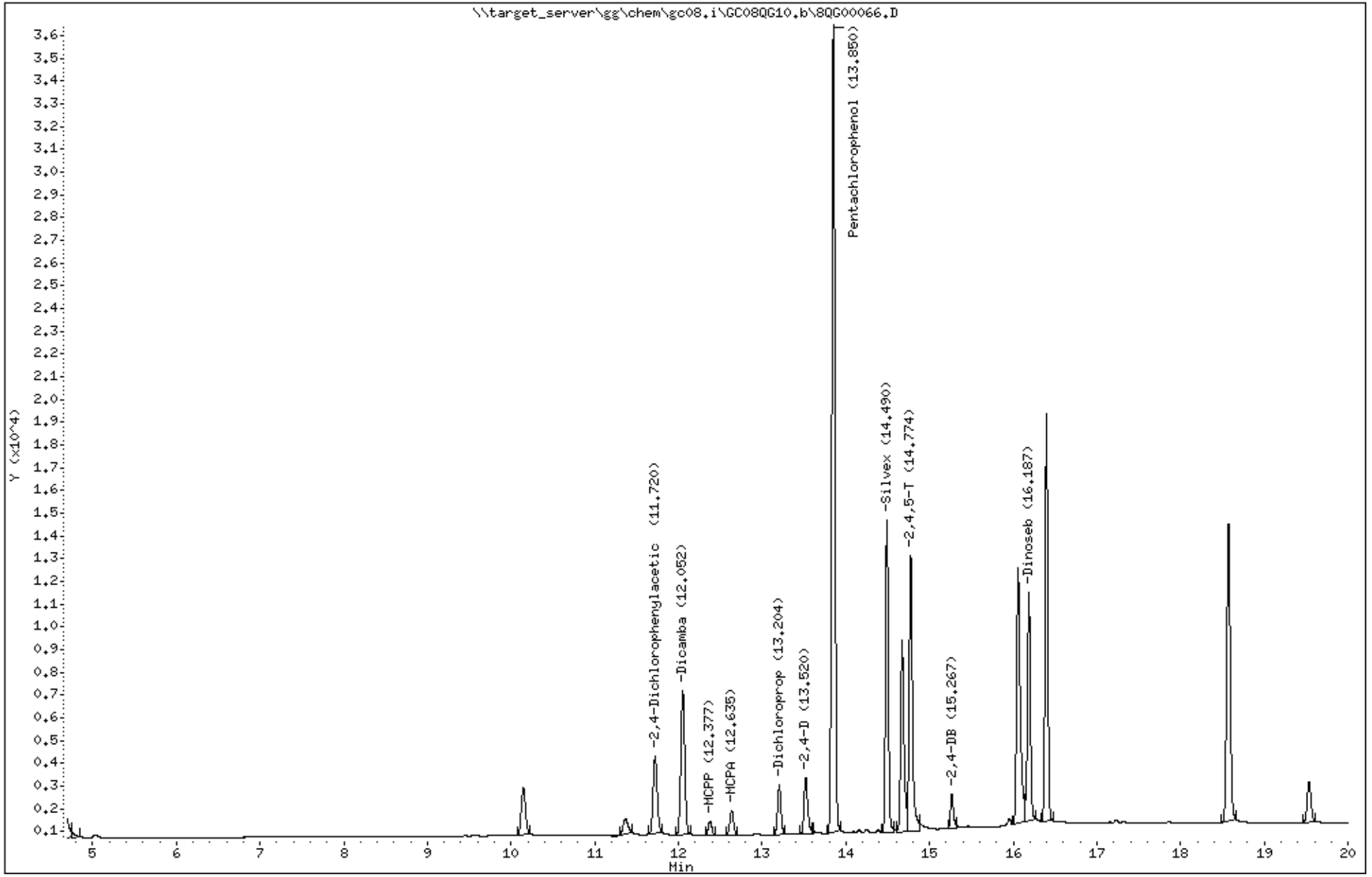
9:41 am, Jul 11, 2023

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.665	4.670	-0.005	6896	0.10000	0.0927(aM)	M5
$ 2	2,4-Dichlorophenylacetic Acid	11.720	11.724	-0.004	3390	0.20000	0.192	
3	Dicamba	12.051	12.059	-0.008	6334	0.10000	0.0951(a)	
4	MCPP	12.376	12.387	-0.011	611	10.0000	10.1(a)	
5	MCPA	12.635	12.645	-0.010	1080	10.0000	11.0(a)	
6	Dichloroprop	13.203	13.209	-0.006	2165	0.10000	0.101(a)	
7	2,4-D	13.520	13.519	0.001	2492	0.10000	0.0906(aM)	M5
8	Pentachlorophenol	13.850	13.857	-0.007	93675	0.10000	0.103(a)	
9	Silvex	14.490	14.495	-0.005	13734	0.10000	0.0952(a)	
10	2,4,5-T	14.773	14.777	-0.004	33150	0.10000	0.100(a)	
11	2,4-DB	15.266	15.267	-0.001	1508	0.10000	0.0819(a)	
12	Dinoseb	16.186	16.197	-0.011	10019	0.10000	0.0974(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00066.D
Date : 10-JUL-2023 13:57
Client ID:
Instrument: gc08.i
Sample Info: WG339228-6
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



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Data File: 8QG00066.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00066.D
Lab Smp Id: HERB 0.1
Inj Date : 10-JUL-2023 13:57
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-6
Misc Info : WG339228,WG339228,WG339228-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m\HERB150.m
Meth Date : 10-Jul-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:57   Cal File: 8QG00066.D
Als bottle: 7   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable



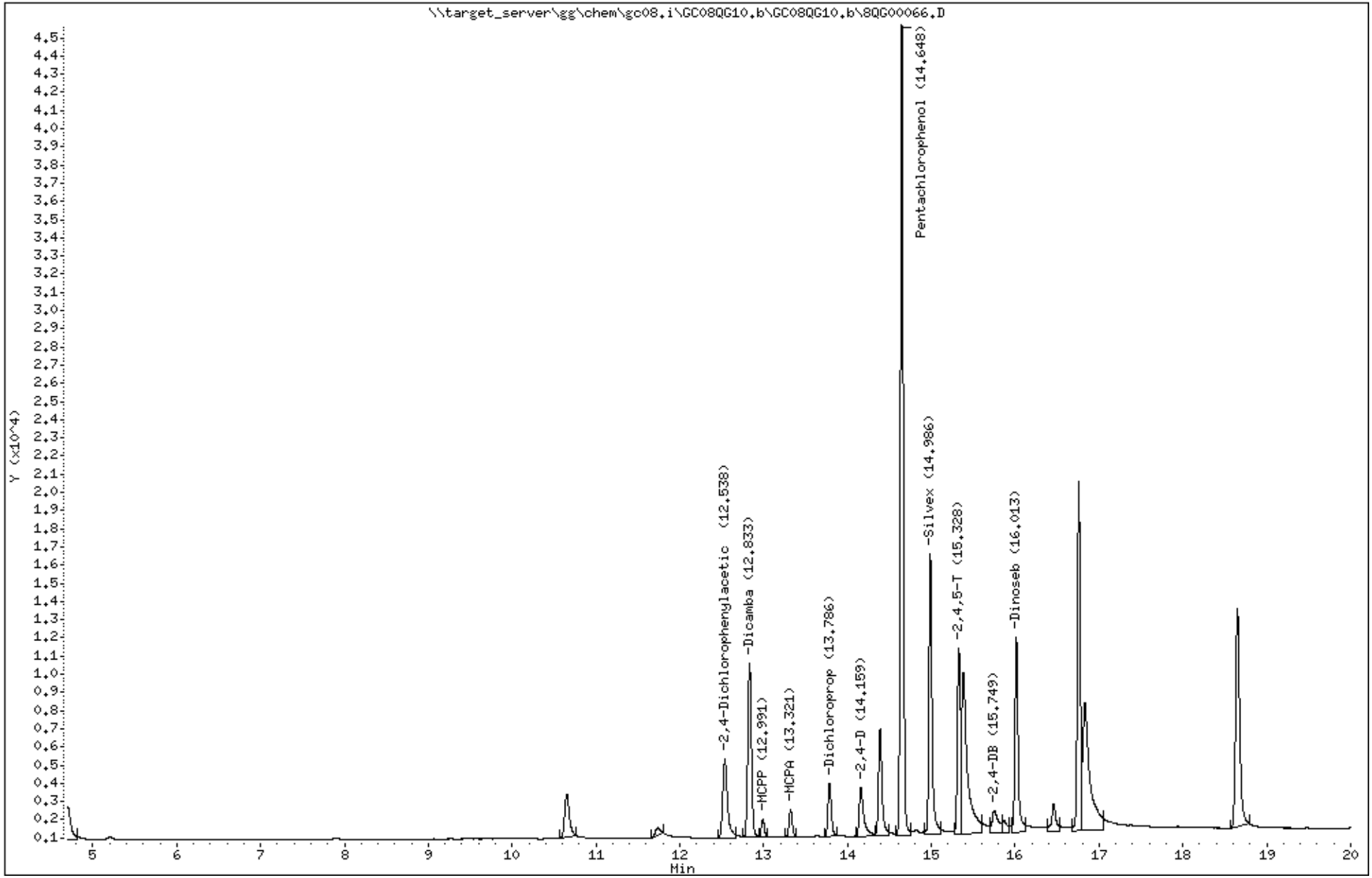
9:41 am, Jul 11, 2023

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.699	4.703	-0.004	1851	0.10000	0.0959(a)	
$ 2	2,4-Dichlorophenylacetic Acid	12.537	12.536	0.001	4301	0.20000	0.182	
3	Dicamba	12.832	12.838	-0.006	9579	0.10000	0.0937(a)	
4	MCPP	12.991	13.000	-0.009	2558	10.0000	9.94(a)	
5	MCPA	13.321	13.330	-0.009	4152	10.0000	10.7(a)	
6	Dichloroprop	13.786	13.788	-0.002	2925	0.10000	0.0951(a)	
7	2,4-D	14.159	14.153	0.006	2685	0.10000	0.0766(aM)	M5
8	Pentachlorophenol	14.647	14.655	-0.008	44567	0.10000	0.103(a)	
9	Silvex	14.986	14.990	-0.004	15393	0.10000	0.0843(a)	
10	2,4,5-T	15.327	15.325	0.002	10175	0.10000	0.0664(a)	
11	2,4-DB	15.749	15.743	0.006	1241	0.10000	0.0740(a)	
12	Dinoseb	16.012	16.020	-0.008	10703	0.10000	0.0887(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00066.D
Date : 10-JUL-2023 13:57
Client ID:
Instrument: gc08.i
Sample Info: WG339228-6
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



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Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00067.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00067.D
Lab Smp Id: HERB IND 0.5
Inj Date : 10-JUL-2023 14:22
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-7
Misc Info : WG339228,WG339228,WG339228-1,SQ2027-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m
Meth Date : 10-Jul-2023 14:32 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32   Cal File: 8QG00065.D
Als bottle: 8   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: IND.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

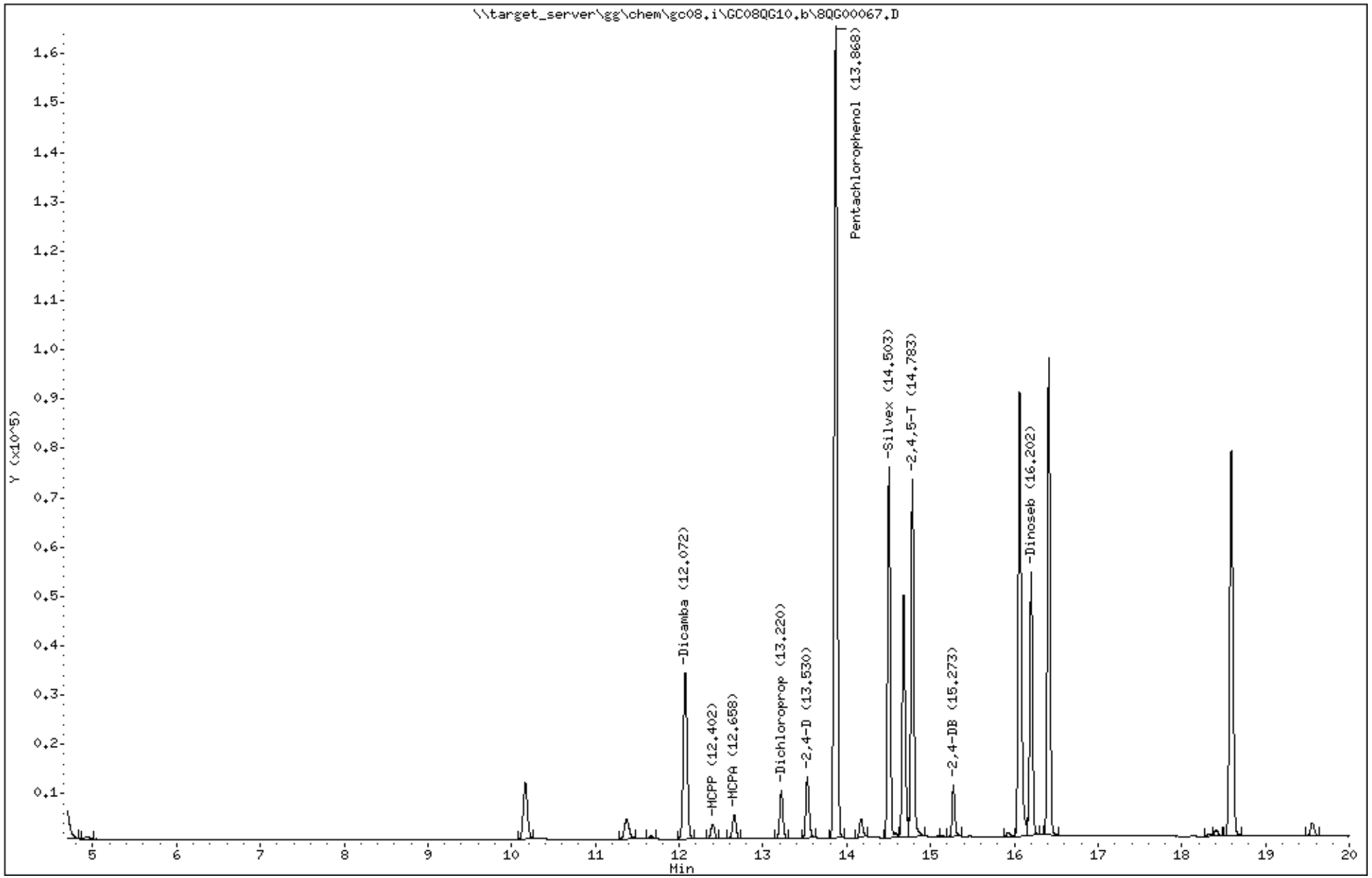
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1	Dalapon	4.681	4.670	0.011	31742	0.43033	0.392(a)	
3	Dicamba	12.071	12.059	0.012	33520	0.50440	0.500	
4	MCPP	12.401	12.387	0.014	3021	49.7623	46.7	
5	MCPA	12.658	12.645	0.013	4764	48.4263	45.3	
7	2,4-D	13.530	13.519	0.011	12402	0.45526	0.428	
8	Pentachlorophenol	13.868	13.857	0.011	432360	0.47262	0.449	
6	Dichloroprop	13.220	13.209	0.011	9662	0.45055	0.425	
9	Silvex	14.503	14.495	0.008	75177	0.51909	0.493	
10	2,4,5-T	14.783	14.777	0.006	171636	0.52022	0.493	
12	Dinoseb	16.201	16.197	0.004	53410	0.51952	0.491(a)	
11	2,4-DB	15.273	15.267	0.006	10501	0.58056	0.550	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\8QG00067.D
Date : 10-JUL-2023 14:22
Client ID:
Instrument: gc08.i
Sample Info: WG339228-7
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



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Data File: 8QG00067.D
Report Date: 11-Jul-2023 09:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00067.D
Lab Smp Id: HERB IND 0.5
Inj Date : 10-JUL-2023 14:22
Operator : SR   Inst ID: gc08.i
Smp Info : WG339228-7
Misc Info : WG339228,WG339228,WG339228-1,SQ2027-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QG10.b\HERB150.m\HERB150.m
Meth Date : 10-Jul-2023 14:49 adenbow   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32   Cal File: 8QG00065.D
Als bottle: 8   QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: IND.sub
Target Version: 4.12
Processing Host: VOSTRO1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

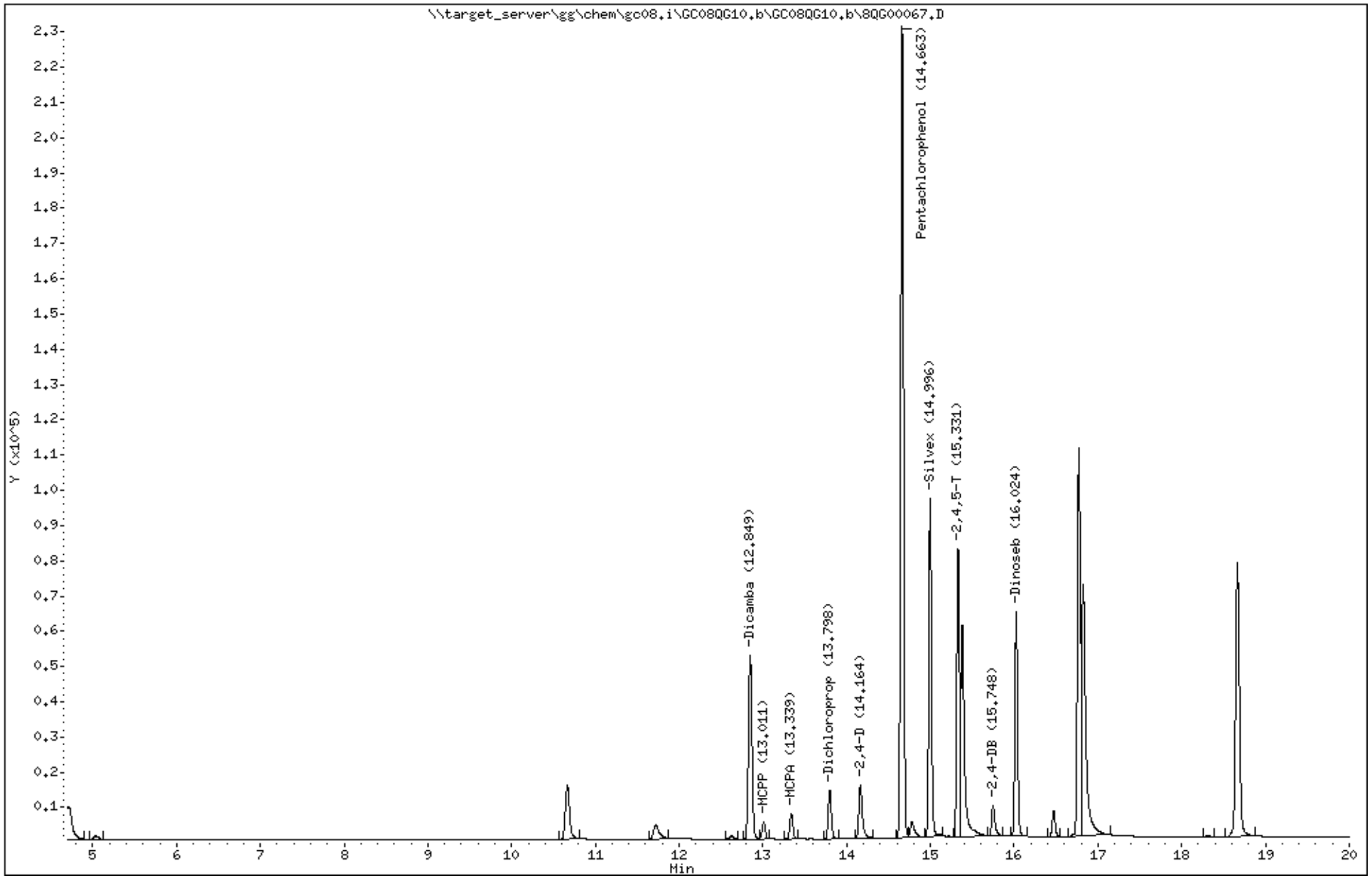
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1	Dalapon	4.712	4.703	0.009	9338	0.48203	0.439(a)	
3	Dicamba	12.849	12.838	0.011	52265	0.51123	0.507	
4	MCPP	13.010	13.000	0.010	12997	50.3656	47.3	
5	MCPA	13.339	13.330	0.009	18957	48.7496	45.6	
7	2,4-D	14.164	14.153	0.011	15228	0.43428	0.408	
8	Pentachlorophenol	14.662	14.655	0.007	230378	0.53313	0.506	
6	Dichloroprop	13.797	13.788	0.009	13760	0.44742	0.422	
9	Silvex	14.995	14.990	0.005	95796	0.52409	0.498	
10	2,4,5-T	15.330	15.325	0.005	81831	0.53359	0.506	
12	Dinoseb	16.024	16.020	0.004	63614	0.52608	0.497(a)	
11	2,4-DB	15.747	15.743	0.004	8572	0.48372	0.458	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QG10.b\GC08QG10.b\8QG00067.D
Date : 10-JUL-2023 14:22
Client ID:
Instrument: gc08.i
Sample Info: WG339228-7
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



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Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343780-1
Analytical Date: 10/11/23 13:58
Lab File ID: 8QJ00283.D
Instrument ID: GC08
Initial Calibration Date(s): 07/10/23 11:53 07/10/23 13:57
Column ID: A

Compound	RRF/Amount	RF0.500	CCAL RRF0.500	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
2,4-D	27241	30922	30922	0.010	13.51145	20.000	Averaged	
Silvex	144825	170820	170820	0.010	17.94939	20.000	Averaged	
2,4-Dichlorophenylacetic Ac	17534	21121	21121	0.010	20.46064	20.000	Averaged	*

*** = Compound out of QC criteria**

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P.O. Box 540, Scarborough, ME 04070
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http://katahdinlab.com
sales@katahdinlab.com

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00283.D
Report Date: 19-Oct-2023 10:21

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00283.D
Lab Smp Id: HERB 0.5
Inj Date : 11-OCT-2023 13:58
Operator : SR   Inst ID: gc08.i
Smp Info : WG343780-1
Misc Info : WG343780,WG343382,WG339228-1,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32   Cal File: 8QG00065.D
Als bottle: 4   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

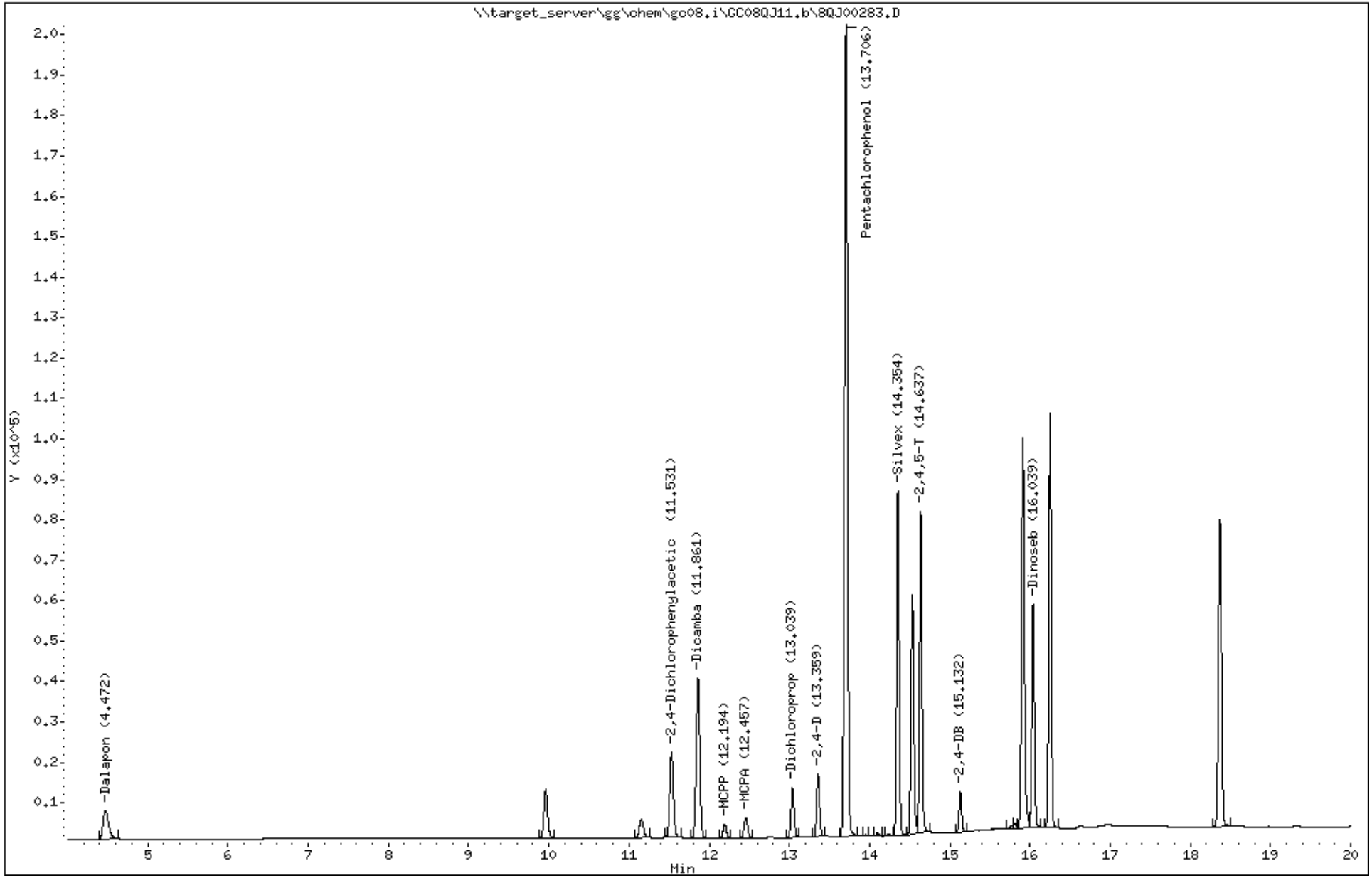
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.472	4.522	-0.050	34870	0.50000	0.473(a)	
$ 2	2,4-Dichlorophenylacetic Acid	11.530	11.569	-0.039	21121	1.00000	1.20	
3	Dicamba	11.860	11.901	-0.041	39476	0.50000	0.594(a)	
4	MCPP	12.193	12.231	-0.038	3490	50.0000	57.5(a)	
5	MCPA	12.457	12.492	-0.035	5133	50.0000	52.2(a)	
6	Dichloroprop	13.038	13.072	-0.034	12190	0.50000	0.568(a)	
7	2,4-D	13.358	13.391	-0.033	15461	0.50000	0.568(a)	
8	Pentachlorophenol	13.705	13.734	-0.029	535123	0.50000	0.585(a)	
9	Silvex	14.353	14.381	-0.028	85410	0.50000	0.590(a)	
10	2,4,5-T	14.637	14.666	-0.029	177348	0.50000	0.538(a)	
11	2,4-DB	15.132	15.159	-0.027	9855	0.50000	0.545(a)	
12	Dinoseb	16.038	16.064	-0.026	55240	0.50000	0.537(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00283.D
Date : 11-OCT-2023 13:58
Client ID:
Instrument: gc08.i
Sample Info: WG343780-1
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



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Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343780-1
Analytical Date: 10/11/23 13:58
Lab File ID: 8QJ00283.D
Instrument ID: GC08
Initial Calibration Date(s): 07/10/23 11:53 07/10/23 13:57
Column ID: B

Compound	RRF/Amount	RF0.500	CCAL RRF0.500	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
2,4-D	35065	39030	39030	0.010	11.30740	20.000	Averaged	
Silvex	182787	195320	195320	0.010	6.85663	20.000	Averaged	
2,4-Dichlorophenylacetic Ac	23635	26900	26900	0.010	13.81439	20.000	Averaged	

*** = Compound out of QC criteria**

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Data File: 8QJ00283.D
Report Date: 19-Oct-2023 10:21

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00283.D
Lab Smp Id: HERB 0.5
Inj Date : 11-OCT-2023 13:58
Operator : SR   Inst ID: gc08.i
Smp Info : WG343780-1
Misc Info : WG343780,WG343382,WG339228-1,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32   Cal File: 8QG00065.D
Als bottle: 4   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

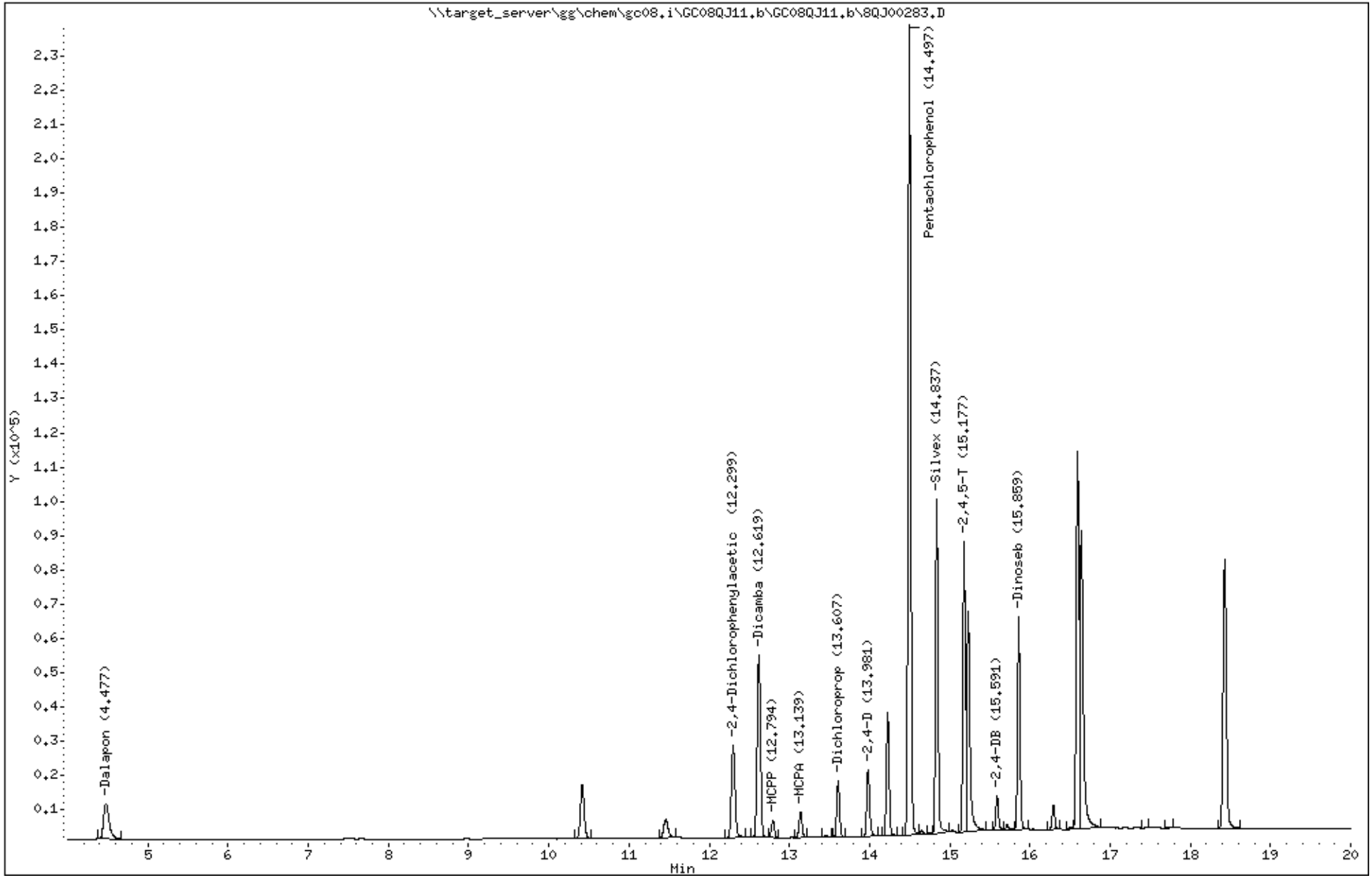
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.477	4.541	-0.064	10310	0.50000	0.532(a)	
$ 2	2,4-Dichlorophenylacetic Acid	12.299	12.371	-0.072	26900	1.00000	1.14	
3	Dicamba	12.619	12.682	-0.063	53175	0.50000	0.520(a)	
4	MCPP	12.794	12.854	-0.060	12994	50.0000	50.4(a)	
5	MCPA	13.139	13.194	-0.055	19632	50.0000	50.5(a)	
6	Dichloroprop	13.607	13.659	-0.052	16343	0.50000	0.531(a)	
7	2,4-D	13.980	14.032	-0.052	19515	0.50000	0.556(a)	
8	Pentachlorophenol	14.497	14.541	-0.044	236794	0.50000	0.548(a)	
9	Silvex	14.837	14.881	-0.044	97660	0.50000	0.534(a)	
10	2,4,5-T	15.177	15.224	-0.047	84690	0.50000	0.552(a)	
11	2,4-DB	15.590	15.632	-0.042	9852	0.50000	0.551(a)	
12	Dinoseb	15.859	15.901	-0.042	62211	0.50000	0.514(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00283.D
Date : 11-OCT-2023 13:58
Client ID:
Instrument: gc08.i
Sample Info: WG343780-1
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343780-2
Analytical Date: 10/11/23 22:05
Lab File ID: 8QJ00299.D
Instrument ID: GC08
Initial Calibration Date(s): 07/10/23 11:53 07/10/23 13:57
Column ID: A

Compound	RRF/Amount	RF0.250	CCAL RRF0.250	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
2,4-D	27241	27180	27180	0.010	-0.22505	20.000	Averaged	
Silvex	144825	149924	149924	0.010	3.52092	20.000	Averaged	
2,4-Dichlorophenylacetic Ac	17534	19220	19220	0.010	9.61856	20.000	Averaged	

*** = Compound out of QC criteria**

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Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00299.D
Report Date: 19-Oct-2023 10:21

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00299.D
Lab Smp Id: WG343780-2
Inj Date : 11-OCT-2023 22:05
Operator : SR   Inst ID: gc08.i
Smp Info : WG343780-2
Misc Info : WG343780,WG343382,WG339228-1,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32   Cal File: 8QG00065.D
Als bottle: 19   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12
Processing Host: ORGANICS3

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

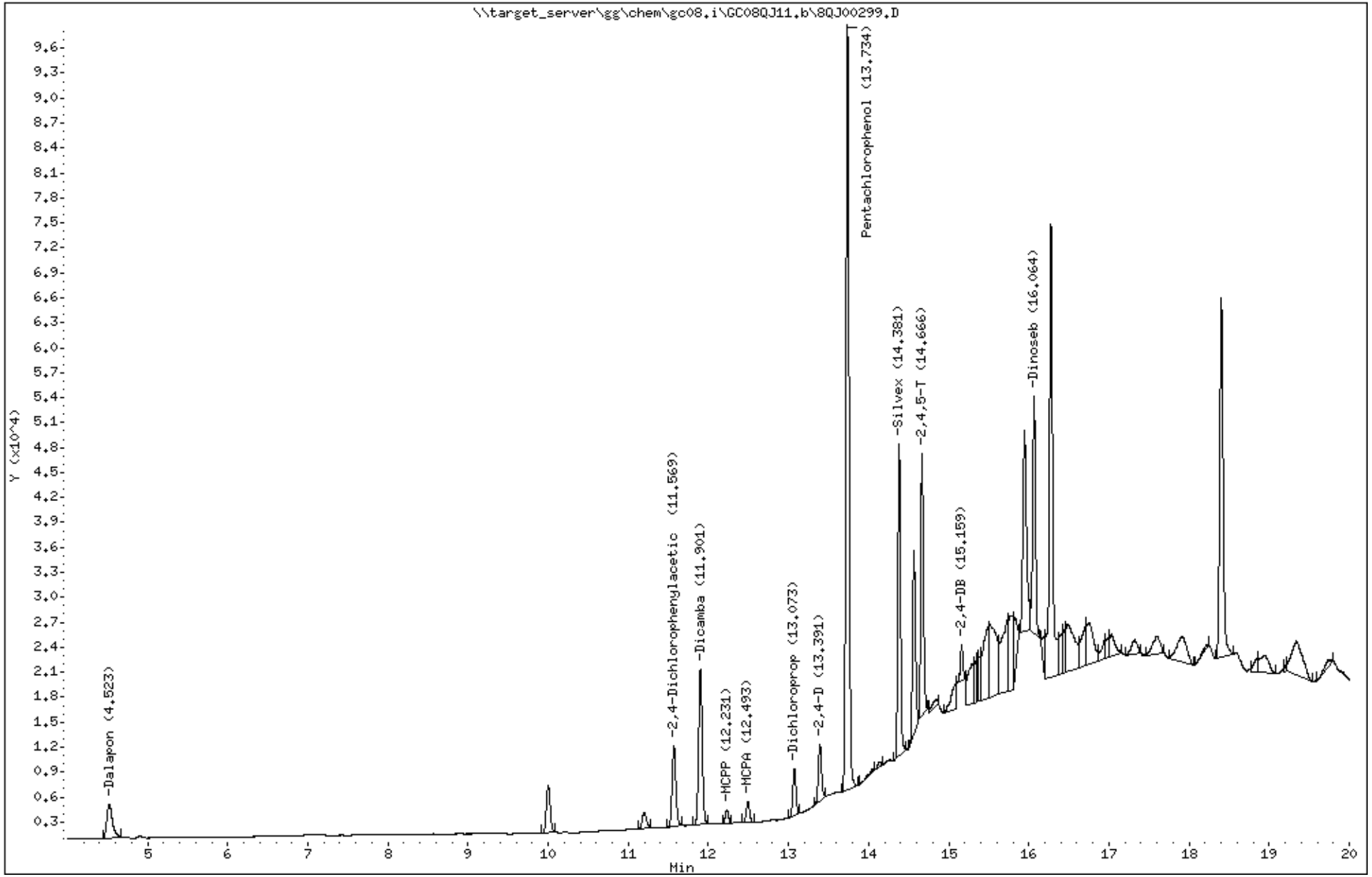
	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.522	4.522	0.000	19222	0.50000	0.260(a)	
$ 2	2,4-Dichlorophenylacetic Acid	11.569	11.569	0.000	9610	1.00000	0.548	
3	Dicamba	11.901	11.901	0.000	18683	0.50000	0.281(a)	
4	MCPP	12.231	12.231	0.000	1619	50.0000	26.7(a)	
5	MCPA	12.492	12.492	0.000	2459	50.0000	25.0(a)	
6	Dichloroprop	13.072	13.072	0.000	5610	0.50000	0.262(a)	
7	2,4-D	13.391	13.391	0.000	6795	0.50000	0.249(a)	
8	Pentachlorophenol	13.734	13.734	0.000	248942	0.50000	0.272(a)	
9	Silvex	14.381	14.381	0.000	37481	0.50000	0.259(a)	
10	2,4,5-T	14.666	14.666	0.000	73081	0.50000	0.222(aM)	M5
11	2,4-DB	15.159	15.159	0.000	4240	0.50000	0.234(aM)	M5
12	Dinoseb	16.064	16.064	0.000	28341	0.50000	0.276(aM)	M5

SR
11:54 am, Oct 19, 2023

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00299.D
Date : 11-OCT-2023 22:05
Client ID:
Instrument: gc08.i
Sample Info: WG343780-2
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



Katahdin Analytical Services SQ5108 Page 490 of 640

Form 7
Calibration Verification Summary

Lab Name: Katahdin Analytical Services
SDG: SQ5108
Lab ID: WG343780-2
Analytical Date: 10/11/23 22:05
Lab File ID: 8QJ00299.D
Instrument ID: GC08
Initial Calibration Date(s): 07/10/23 11:53 07/10/23 13:57
Column ID: B

Compound	RRF/Amount	RF0.250	CCAL RRF0.250	Min RF	%D/ %Drift	Max %D/ %Drift	Curve Type	Qual
2,4-D	35065	30788	30788	0.010	-12.19749	20.000	Averaged	
Silvex	182787	150580	150580	0.010	-17.61995	20.000	Averaged	
2,4-Dichlorophenylacetic Ac	23635	25614	25614	0.010	8.37330	20.000	Averaged	

*** = Compound out of QC criteria**

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Data File: 8QJ00299.D
Report Date: 19-Oct-2023 10:21

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00299.D
Lab Smp Id: WG343780-2
Inj Date : 11-OCT-2023 22:05
Operator : SR   Inst ID: gc08.i
Smp Info : WG343780-2
Misc Info : WG343780,WG343382,WG339228-1,SQ5108-1
Comment   :
Method   : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m\HERB150.m
Meth Date : 19-Oct-2023 10:20 gc08.i   Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32   Cal File: 8QG00065.D
Als bottle: 19   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

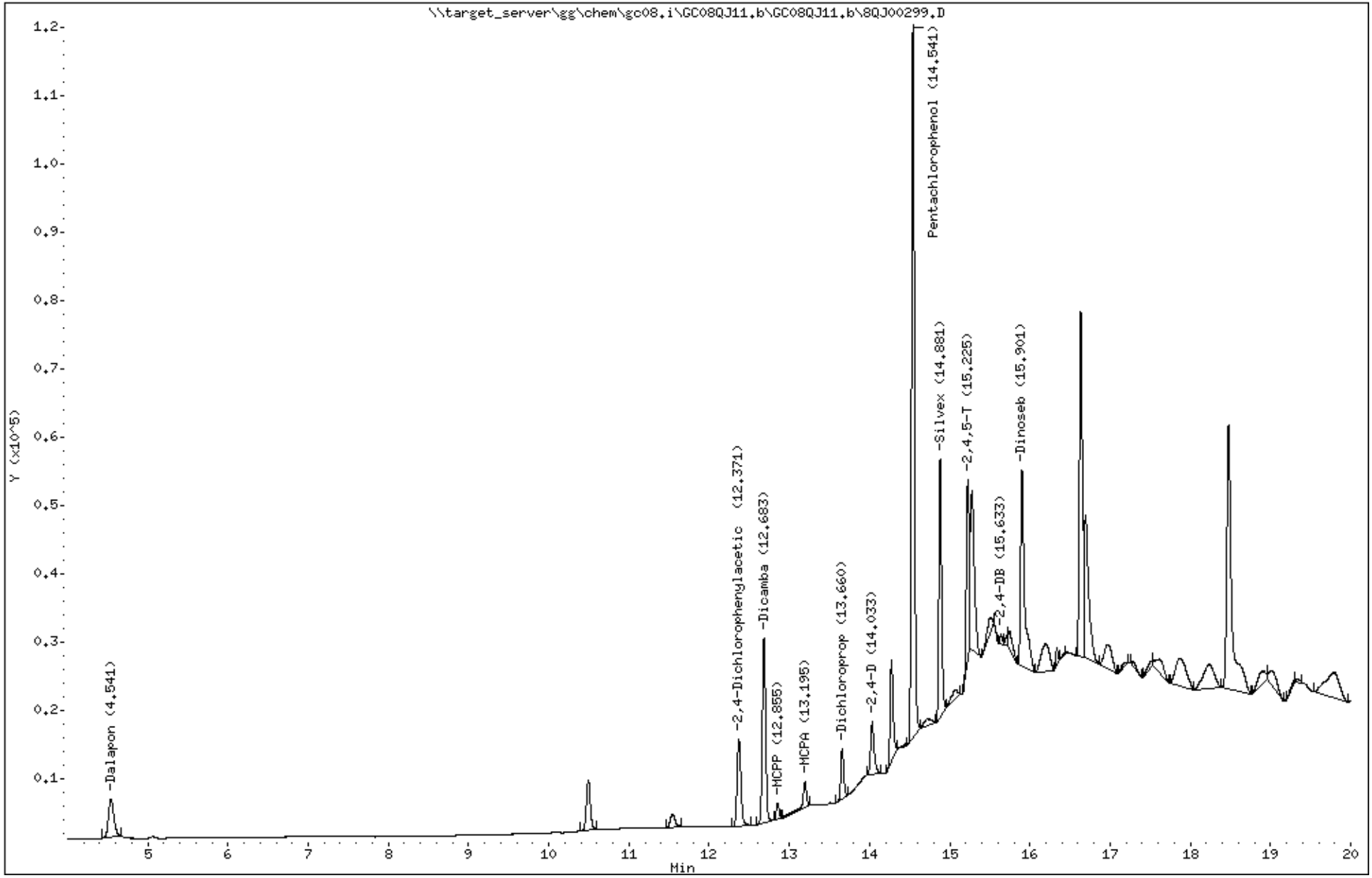
	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)	REVIEW CODE
1	Dalapon	4.541	4.541	0.000	5630	0.50000	0.291(a)	
$ 2	2,4-Dichlorophenylacetic Acid	12.371	12.371	0.000	12807	1.00000	0.542	
3	Dicamba	12.682	12.682	0.000	27090	0.50000	0.265(a)	
4	MCPP	12.854	12.854	0.000	5699	50.0000	22.1(a)	
5	MCPA	13.194	13.194	0.000	11355	50.0000	29.2(a)	
6	Dichloroprop	13.659	13.659	0.000	7339	0.50000	0.239(a)	
7	2,4-D	14.032	14.032	0.000	7697	0.50000	0.220(aM)	M5
8	Pentachlorophenol	14.541	14.541	0.000	104423	0.50000	0.242(a)	
9	Silvex	14.881	14.881	0.000	37645	0.50000	0.206(a)	
10	2,4,5-T	15.224	15.224	0.000	26663	0.50000	0.174(a)	
11	2,4-DB	15.632	15.632	0.000	1406	0.50000	0.0831(a)	
12	Dinoseb	15.901	15.901	0.000	28706	0.50000	0.237(a)	

SR
11:54 am, Oct 19, 2023

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00299.D
Date : 11-OCT-2023 22:05
Client ID:
Instrument: gc08.i
Sample Info: WG343780-2
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5108
Lab ID: WG343382-1
Client ID: Method Blank
Matrix: AQ
Lab File ID: 8QJ00284.D

Sample Date: N/A
Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: SW846 3510C
Lab Prep Batch: WG343382

Report Date: 19-OCT-23
Analysis Date: 11-OCT-23
Analyst: SR
Analysis Method: SW846 8151A
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
2,4-D	U	1.5	ug/L	1	3	3.0	0.75	1.5
Silvex	U	1.5	ug/L	1	3	3.0	0.75	1.5
2,4-Dichlorophenylacetic Acid		119.	%					

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Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00284.D
Report Date: 19-Oct-2023 10:15

Katahdin Analytical Services

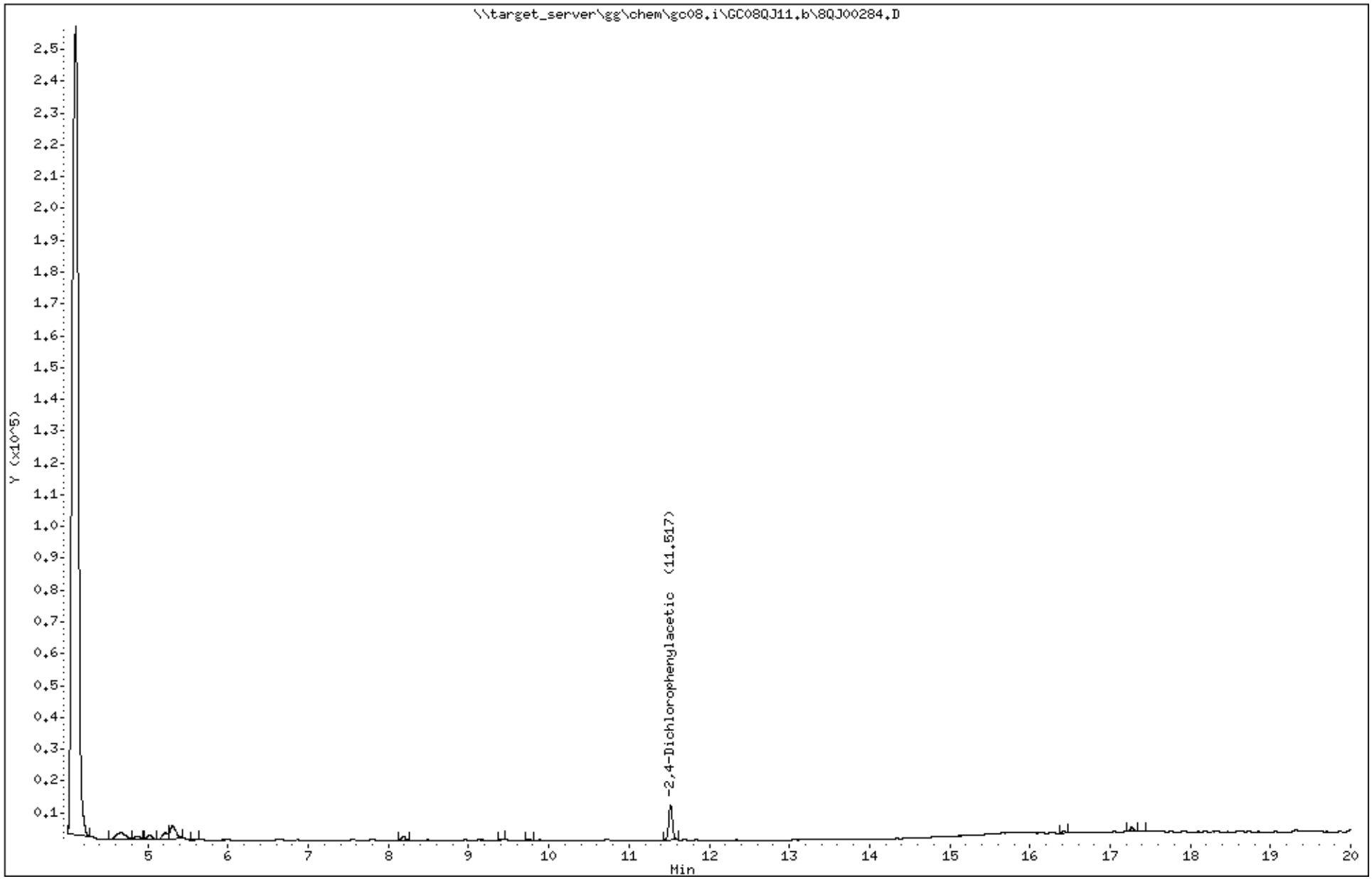
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Lab Smp Id: WG343382-1 Client Smp ID: WG343382-Blank
Inj Date : 11-OCT-2023 15:48
Operator : SR Inst ID: gc08.i
Smp Info : WG343382-1
Misc Info : WG343780,WG343382,WG339228-1,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m
Meth Date : 12-Oct-2023 16:51 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 2 2,4-Dichlorophenylacetic Acid	11.517	11.543	-0.026	11107	0.63347	5.93	

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00284.D
Date : 11-OCT-2023 15:48
Client ID: WG343382-Blank
Instrument: gc08.i
Sample Info: WG343382-1
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



Katahdin Analytical Services SQ5108 Page 497 of 640

Data File: 8QJ00284.D
Report Date: 19-Oct-2023 10:15

Katahdin Analytical Services

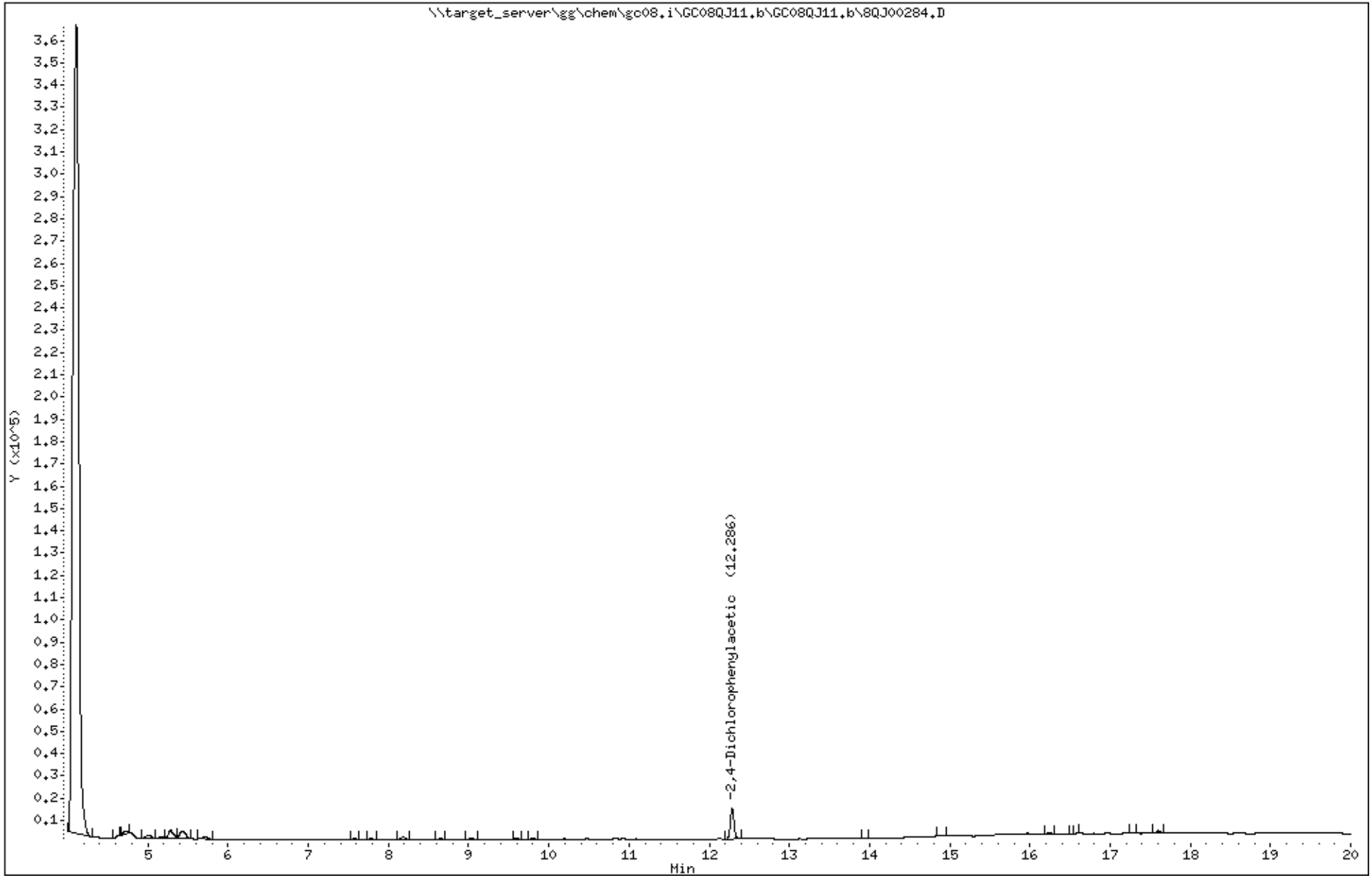
Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00284.D
Lab Smp Id: WG343382-1 Client Smp ID: WG343382-Blank
Inj Date : 11-OCT-2023 15:48
Operator : SR Inst ID: gc08.i
Smp Info : WG343382-1
Misc Info : WG343780,WG343382,WG339228-1,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m\HERB150.m
Meth Date : 12-Oct-2023 16:52 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	
Compounds	RT	EXP RT	DLT RT	RESPONSE				REVIEW CODE
$ 2 2,4-Dichlorophenylacetic Acid	12.285	12.347	-0.062	13565		0.57394	5.37	

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00284.D
Date : 11-OCT-2023 15:48
Client ID: WG343382-Blank
Instrument: gc08.i
Sample Info: WG343382-1
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



Katahdin Analytical Services SQ5108 Page 499 of 640

Katahdin
ANALYTICAL SERVICES

LCS/LCSD Recovery Report

LCS ID: WG343382-2
LCSD ID: WG343382-3
SDG: SQ5108
LCS File ID: 8QJ00285.D

Extract Date: 02-OCT-23
Extracted By: SH/SR
Extraction Method: SW846 3510C
Lab Prep Batch: WG343382
LCSD File ID: 8QJ00286.D

Analysis Date: 11-OCT-23
Analyst: SR
Analysis Method: SW846 8151A
Matrix: AQ
Report Date: 19-OCT-23

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
2,4-D	5.00	5.71	114.	5.97	119.	ug/L	4	30	45-152
Silvex	5.00	6.08	122.	6.32	126.	ug/L	4	30	51-134
2,4-Dichlorophenylacetic Acid			115.		117.				32-138

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Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00285.D
Report Date: 19-Oct-2023 10:15

Katahdin Analytical Services

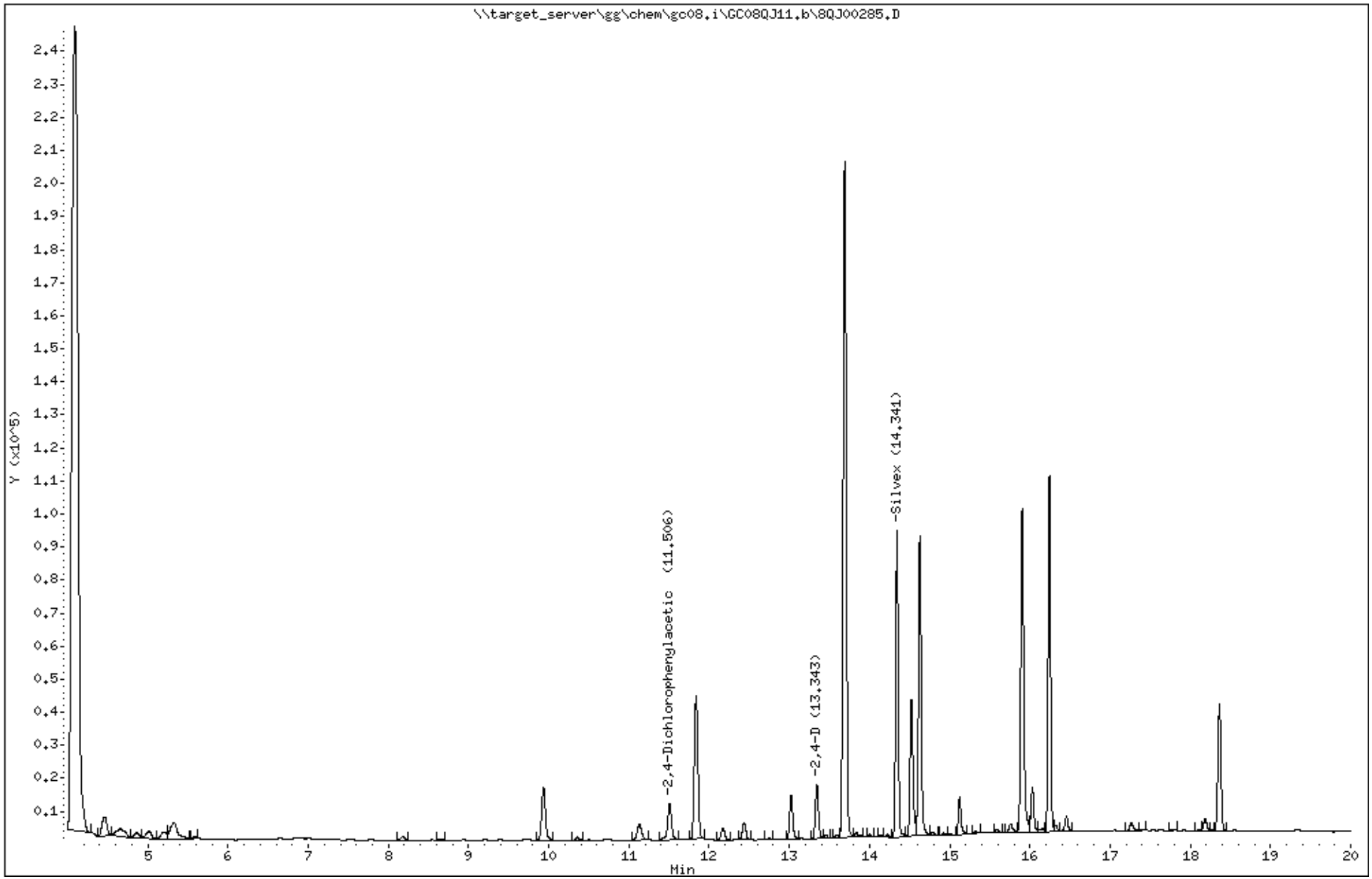
Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00285.D
Lab Smp Id: WG343382-2 Client Smp ID: WG343382-LCS
Inj Date : 11-OCT-2023 16:13
Operator : SR Inst ID: gc08.i
Smp Info : WG343382-2
Misc Info : WG343780,WG343382,WG339228-1,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m
Meth Date : 12-Oct-2023 16:51 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 2	2,4-Dichlorophenylacetic Acid	11.505	11.543	-0.038	10809	0.61648	5.77	
7	2,4-D	13.342	13.371	-0.029	16545	0.60735	5.71	
9	Silvex	14.340	14.363	-0.023	92713	0.64017	6.08	

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00285.D
Date : 11-OCT-2023 16:13
Client ID: WG343382-LCS
Instrument: gc08.i
Sample Info: WG343382-2
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



Katahdin Analytical Services SQ5108 Page 502 of 640

Data File: 8QJ00285.D
Report Date: 19-Oct-2023 10:15

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00285.D
Lab Smp Id: WG343382-2 Client Smp ID: WG343382-LCS
Inj Date : 11-OCT-2023 16:13
Operator : SR Inst ID: gc08.i
Smp Info : WG343382-2
Misc Info : WG343780,WG343382,WG339228-1,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m\HERB150.m
Meth Date : 12-Oct-2023 16:52 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

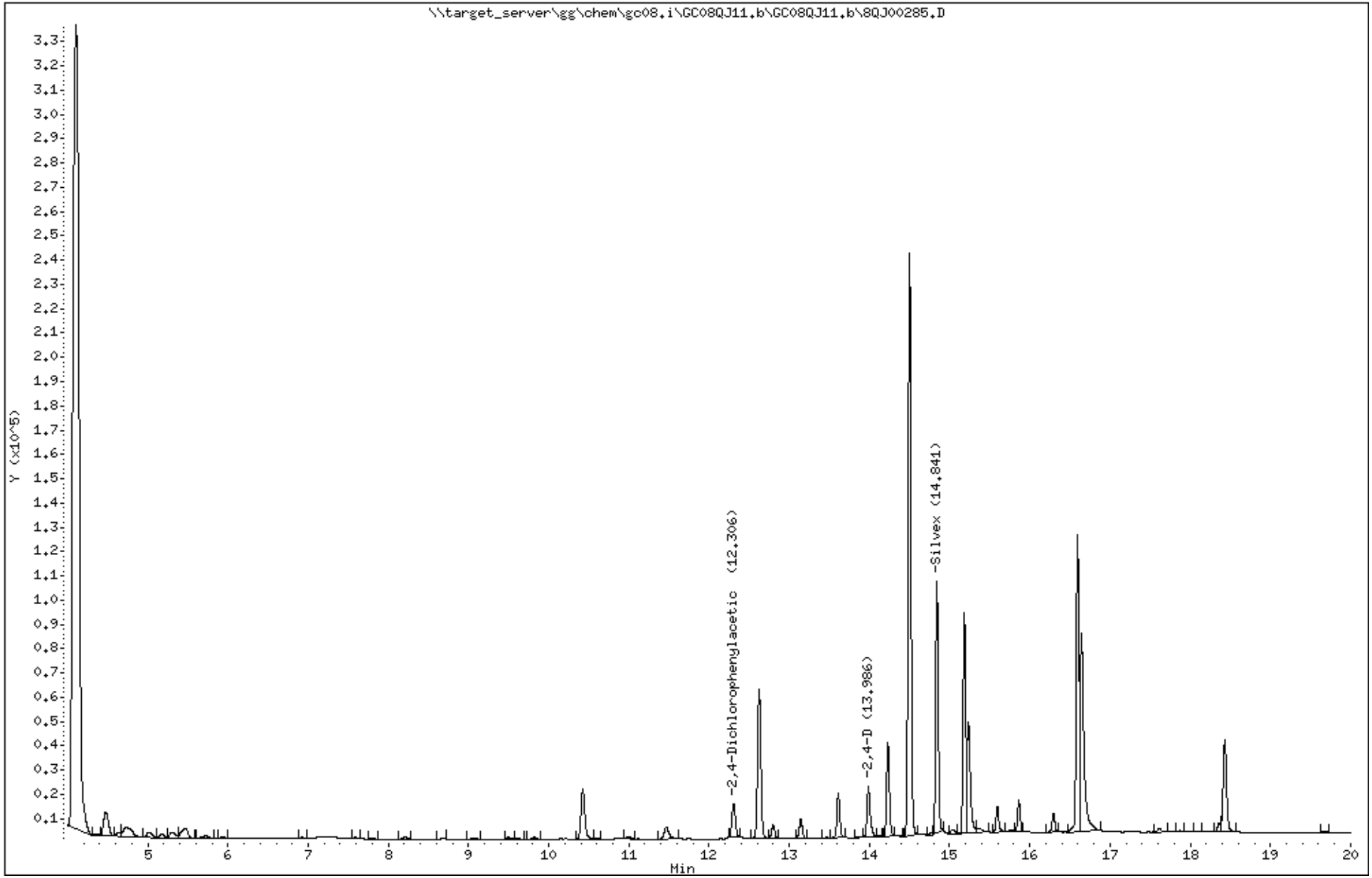
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 2 2,4-Dichlorophenylacetic Acid	12.306	12.347	-0.041	13427	0.56810	5.32(M)	M7
7 2,4-D	13.986	14.015	-0.029	20840	0.59432	5.59	
9 Silvex	14.841	14.865	-0.024	103250	0.56487	5.37(M)	M5

SR
11:55 am, Oct 19, 2023

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00285.D
Date : 11-OCT-2023 16:13
Client ID: WG343382-LCS
Instrument: gc08.i
Sample Info: WG343382-2
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00286.D
Report Date: 19-Oct-2023 10:15

Katahdin Analytical Services

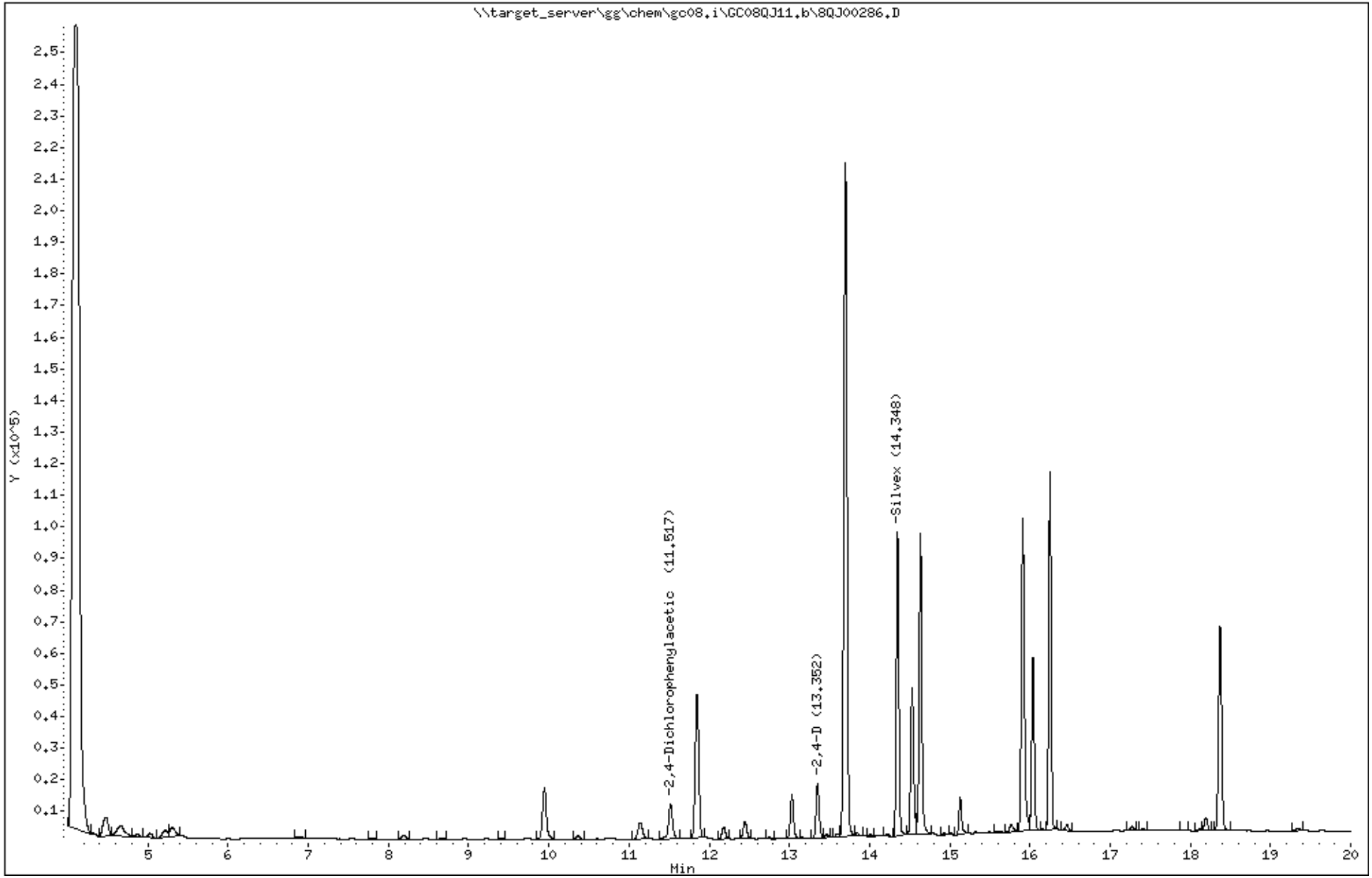
Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00286.D
Lab Smp Id: WG343382-3 Client Smp ID: WG343382-LCSD
Inj Date : 11-OCT-2023 16:38
Operator : SR Inst ID: gc08.i
Smp Info : WG343382-3
Misc Info : WG343780,WG343382,WG339228-1,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m
Meth Date : 12-Oct-2023 16:51 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 7 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 2	2,4-Dichlorophenylacetic Acid	11.516	11.543	-0.027	10992	0.62691	5.87	
7	2,4-D	13.351	13.371	-0.020	17285	0.63451	5.97	
9	Silvex	14.348	14.363	-0.015	96250	0.66460	6.32	

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\8QJ00286.D
Date : 11-OCT-2023 16:38
Client ID: WG343382-LCSD
Instrument: gc08.i
Sample Info: WG343382-3
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides
Column diameter: 0.53



Katahdin Analytical Services SQ5108 Page 506 of 640

Data File: 8QJ00286.D
Report Date: 19-Oct-2023 10:15

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00286.D
Lab Smp Id: WG343382-3 Client Smp ID: WG343382-LCSD
Inj Date : 11-OCT-2023 16:38
Operator : SR Inst ID: gc08.i
Smp Info : WG343382-3
Misc Info : WG343780,WG343382,WG339228-1,SQ5108-1
Comment :
Method : \\target_server\gg\chem\gc08.i\GC08QJ11.b\HERB150.m\HERB150.m
Meth Date : 12-Oct-2023 16:52 gc08.i Quant Type: ESTD
Cal Date : 10-JUL-2023 13:32 Cal File: 8QG00065.D
Als bottle: 7 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP-DoD5.sub
Target Version: 4.12
Processing Host: VOSTRO4

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

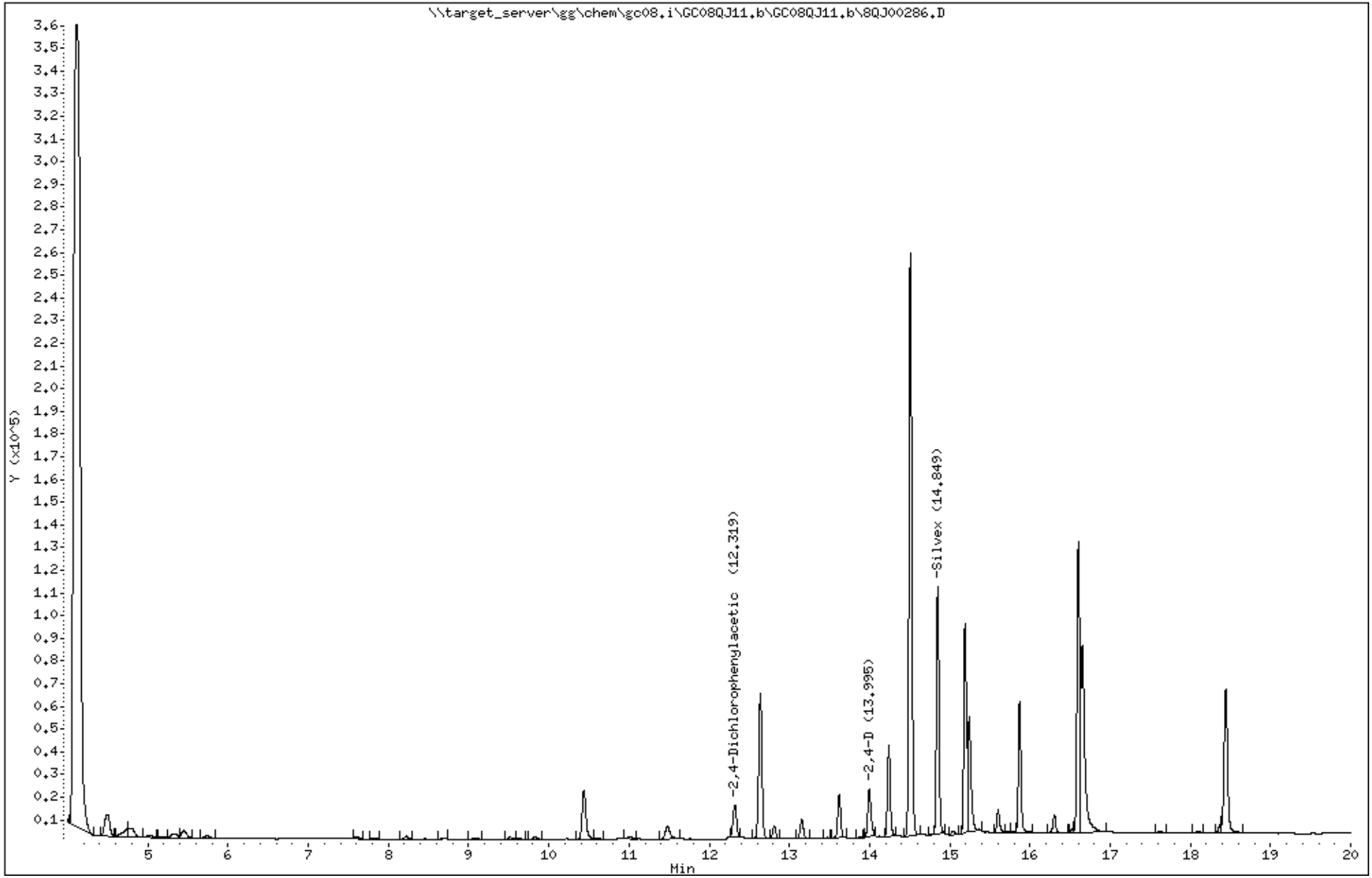
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 2 2,4-Dichlorophenylacetic Acid	12.318	12.347	-0.029	13955	0.59044	5.53(M)	M7
7 2,4-D	13.995	14.015	-0.020	21024	0.59957	5.64(M)	M7
9 Silvex	14.848	14.865	-0.017	109207	0.59746	5.68(M)	M7

SR
11:55 am, Oct 19, 2023

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gc08.i\GC08QJ11.b\GC08QJ11.b\8QJ00286.D
Date : 11-OCT-2023 16:38
Client ID: WG343382-LCSD
Instrument: gc08.i
Sample Info: WG343382-3
Purge Volume: 1.0
Operator: SR
Column phase: RTX-CLPesticides2
Column diameter: 0.53



Katahdin Analytical Services SQ5108 Page 508 of 640

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES, LLC. Non-Volatile TCLP/SPLP Extraction Log

I. EXTRACTION CONDITIONS

Extraction Method:	SW846 1311 (TCLP) ☐ SW846 1312 (SPLP) ☐		Balance ID: BAL-09	Rotary Extractor ID:		
			pH Probe ID:	pH Meter ID: Fisher AB315 S/N A11928		
Solid pH Determination:	Date:	Analyst:	Room Thermometer ID:	(Room Temp Criteria. 23(±2)°C)		
Rotary Extraction Started:	Date:	Time:	Analyst:	RoomTemp(°C):	Start:	End:
Rotary Extraction Completed:	Date:	Time:	Analyst:	Room Temp (°C):	Min.	Max.
Extraction Filtered:	Date:	Time:	Analyst:	Filter Lot #: 600019199Z		
Elapsed Extraction Time (HH:MM):		5% HNO_3 ID (used to wash filters): ~~MR25J9~~ MR2327		HNO_3 Lot # (used to preserve extracts): MR2327		
Fluid 1 pH (Day of use):		Fluid 1 Expiration Date: 10/6-10-25		Rotary Extractor Rotation Rate Checked?		
Fluid 2 pH (Day of use):		Fluid 2 Expiration Date:		Criteria. 30 ± 2 RPM		

II. EXTRACTION SETUP TCLP Fluid pH: #1 - 4.93 ± 0.05 #2 - 2.88 ± 0.05 SPLP Fluid pH: #1 - 4.20 ± 0.05 #2 - 5.00 ± 0.05

Katahdin Sample No. (include bottle ID)	Matrix	Check One: 100% Wet Solids- waste will yield no liquid upon filtration	Check One: < 100% Wet Solids (Perform Solids Determination below)	SPLP FLUID # (1 for east and 2 for west of Mississippi River)	TCLP pH Determination and Fluid Selection (date & init. above): Initial pH of solid phase: (if <5, use Fluid #1; if >5 add 3.5 mL of 1 N HCl)	TCLP pH Determination and Fluid Selection (date & init. above): pH after 1 N HCL addition (if <5, use Fluid #1; if >5, use Fluid #2	Extraction Setup: Volume of Extraction Fluid (mL)	Extraction Setup: Fluid # used	Extraction Setup: Associated Extraction Blank ID:	Extraction Setup: Weight of Waste (g)	pH of extract after extraction:	Extract to be analyzed for: Metals (M), SVOA (S), PEST (P), HERB (H), Cyanide (C)	Extraction Bottle ID (if applicable)
											CD 9-27-23		

QAAA232 - 000832

III. SOLIDS DETERMINATION

Date AQ Filtered: 9-27-23

Katahdin Sample No. (include bottle ID)	AQ or SL	Time Filt'd	A: Weight of filter (g)	B: Weight of filtrate vessel (g)	C: Weight of weigh boat + waste (g)	D: Weight of weigh boat + residue (g)	E: Weight of waste (C-D) (g)	F: Weight of filtrate vessel + filtrate (g)	G: Weight of liquid phase (F-B) (g)	H: Percent wet solids [(E-G)/E x 100%]	I: Weight of filter + dry solids (g)	J: Weight of dry solids (I-A) (g)	K: Percent dry solids (J/E x 100%)
SQ5108-1J CD 9-27	AQ	1330	1.20	15.46	120.63	14.73	105.89	118.36	103.90	2.82	1.28	0.08	0.02%

IV. PHASE SEPARATION

Katahdin Sample No. (include bottle ID)	Matrix	Percent dry solids [1]: <0.5%	Percent dry solids [1]: >0.5%	L: Weight of filtrate vessel (g)	M: Weight of weigh boat + waste (g)	N: Weight of weigh boat + residue (g)	O: Weight of waste (M-N) (g)	P: Weight of filtrate vessel + filtrate (g)	Q: Weight of liquid phase (P-L) (g)	R: Volume of liquid phase (mL) [2]	S: Weight of wet solids (O - Q) (g)

CD 9-27-23

1) If dry solids is <0.5%, filter sufficient volume of waste to support all required analyses. If dry solids >0.5% and wet solids <100%, perform phase separation (steps L – S above).

2) If miscible, proportionately combine pre-extraction filtrate with rotary extract. If not miscible, analyze aliquots separately and mathematically combine results.

V. COMMENTS:

CD 9-27-23

Reviewed By_____ Date_____

Herb
Sep

KATAHDIN ANALYTICAL SERVICES
ORGANIC EXTRACTIONS LOG - HERBICIDES

Extraction Method: (√ one)	SEP. FUNNEL: X	SONICATION:	Analytical Method: SW846 8151		
Standards	Surrogate ID (1): GC2495	Surrogate ID (2):	Spike ID (1):	Spike ID (2):	
Solvents	MeCl2 Lot #: —	Acetone Lot # : —	Hexane Lot #: 230897		
	Ether Lot #: EG357-US	Methanol Lot #: GC2503	Isooctane Lot #: 218006		
Consumables	Filter Paper Lot # (SON) —	Filter Paper Lot # (KD) CX0K6	Powdered $NaSO_4$ Lot # —		
	Crystal $NaSO_4$ Lot #: Acidified RE1012	HCl Lot #: —	H_2SO_4 Lot #: cold 1:3 RE01015		
	NaOH Lot #: 213750	Silicic Acid Lot #: STD339	Diazald ID: GC2002		
	Potassium Hydroxide Lot #: RE0946	$NaCl_2$ Lot #: RE01011	pH Paper Lot#: 6303005		
Prep Start Time: 14:20	Prep End Time: 13:30	Nitrogen Bath Temperature: 40°	Sonicator Horns Tuned: —	Balance ID: —	

Ext. Date	Ext. Init.	Sample ID	Initial Vol. / Weight (g / mL)	Surr. Vol. (mL)	Spk. Vol. (mL)	Date Esterified	Date Conc.	Conc. Init.	Final Vol. (mL)	Tray Loc.	RV24117 Comments
10/2/23	JH SR	WG343382-1	1000	1.0	N/A	10/6/23 →		SR	10.00	04	MB
↓	↓	-2	↓	↓	1.0	↓	↓	↓	↓	05	LCS
		-3			↓					06	LCSD
		-4	200							07	TCLP Blank

10/6/23

EX-014 – Revision 3 – 06/09/2016

QAEX504 - 000844

0000014

Ext. Date	Ext. Init.	Sample ID	Initial Vol. / Weight (g / mL)	Surr. Vol. (mL)	Spk. Vol. (mL)	Date Esterified	Date Conc.	Conc. Init.	Final Vol. (mL)	Tray Loc.	Comments
10/2/23	SH SR	SQ5108-1	200	1.0	N/A	10/6/23 →		SR	10.00	08	TCLP
↓	↓	SQ5109-1	200	↓	↓	↓	↓	↓	↓	09	↓

10/6/23

Reviewed By_____ Date_____

Katahdin Analytical Services

GC Laboratory Instrument Runlog

Instrument: GC08

Amount Injected: 2 uL

Column Numbers: 564, 565

Method: SW846 8081 / 8082 / 8151 / 8011
(circle) EPA 504.1 / 556

Hexane Lot #:	223259
Standard	Standard ID

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
7/10/23	AD	80600057-60	PRIME	N	WG339228	Herb150	
		61	Herb 0.5	Y	-1		P0886
		62	Herb 2.0	Y	-2		P0885
		63	Herb 1.0	Y	-3		P0890
		64	Herb 0.75	Y	-4		P0891
		65	Herb 0.25	Y	-5		P0887
		66	Herb 0.1	Y	-6		P0892
		67	Herb IND 0.5	Y	-7		P0867

Katahdin Analytical Services

GC Laboratory Instrument Runlog

Instrument: GC08

Amount Injected: 2 uL

Column Numbers: 564/565

Method: SW846 8081 / (8082) / (8151) / 8011
(circle) EPA 504.1 / 556

Hexane Lot #:	230897
Standard	Standard ID
AR1660 1.0	P0955
↓ 0.25	P0956
AR1254 1.0	P0952
↓ 0.25	P0953
CONG 0.05	P0926
↓ 0.025	P0927

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
10-10-23	JLP	8Q500260	WG343597-6	Y	WG343712	PCB-002	LFA C
10-11-23		261	SQ3920-2	Y			
		262	-3				T+DUP+B (R)
		263	-13	Y			
		264	-16	Y			DUP
		265	-19	Y			
		266	-4				(R) CONG hits
		267	-20	Y			DUP+B matrix
		268	-14	Y			
		269	RINSE	N			colored soils
		270	AR1660 0.25	Y	-7		
		271	AR1254 ↓	Y	-8		
		272	CONG 0.025	Y	-9		
		273	SQ3920-9DL				1:5 matrix (R) 60 hits
		274	↓ -10DL				1:5 ↓ (R) 60 hits
		275	RINSE	N			black extracts
		276	↓	↓			↓
		277	AR1660 1.0	Y	-10		1660A carryover peaks
		278	AR1254 ↓	Y	-11		
		279	CONG 0.05	Y	-12		
10/11/23	SP	Maint. - Clipped guard, replaced liner + Septa					
		8QI00280	Prime	↑		Herb150	
		281	Herb 2.0 1:4	↓			
		282	Herb 0.5	↑	*		↑
		283	Herb 0.5	Y	WG343582780-1		PQ959
		284	WG343582-1				
		285	-2				
		286	-3				
		287	-4				RBT iB13A
		288	SQ5108-1				

* 10/11/23 1:5 = 100/500uL

Katahdin Analytical Services

GC Laboratory Instrument Runlog

Instrument: GC08

Amount Injected: 2 uL

Column Numbers: 564/565

Method: SW846 8081 / 8082 / 8151 / 8011
(circle) EPA 504.1 / 556

Hexane Lot #:	230897
Standard	Standard ID
Herb 0.5	P0959
↓ 0.25	P0887

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
10/11/23	SR	8QI00289	SQ5109-1	Y	WG343780	Herb150	
↓	↓	↓ 290	RINSE	N	↓	↓	
		291	WG343705-1	Y			
		292	↓ -2	↓			DLPA✓ ↑AB
		293	↓ -3				↓ ↑AB
		294	SQ5408-1				DLPA ↑A
		295	SQ5422-1				
		296	↓ -2				
		297	-4				
		298	↓ -5				
		299	Herb 0.25	↓	-2		2↓B
		300	RINSE	N			
		301	WG343533-1	Y			
		302	↓ -2	↓			
		303	↓ -3				
		304	SQ5169-2				
↓	↓	↓ 305	Herb 0.5	↓	↓ -3	↓	2↓B

METALS DATA

Sample Data Section

METALS SAMPLE FLAGGING

FLAG	SPECIFIED MEANING
E	The reported value is estimated because of the presence of interference (as indicated by serial dilution).
N	The pre-digestion spiked sample recovery is not within control limits.
*	The duplicate sample analysis relative percent difference (RPD) is not within control limits.
B	Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.
A	The post-digestion spiked sample recovery is not within control limits.
•	Analytical run QC sample (e.g. ICV, CCV, ICB, CCB, ICSA, ICSAB) not within control limits.
U	The analyte was not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client. Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL, "U" LOQ or "U" LOD, where the rate of false negatives is <1%.
J	Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).
Q	One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery or CCV).

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Katahdin Analytical Services

SDG Name: SQ5108 **SOW No.** SW846

Client Field ID	Lab Sample ID
DOW-AQWC-01	SQ5108-001

Were ICP interelement corrections applied ?	Yes
Were ICP background corrections applied ?	Yes
If yes - were raw data generated before application of background corrections ?	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Camille Dimond Name: Camille Dimond

Date: 10-16-23 Title: metals analyst

COVER PAGE - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** DOW-AQWC-01

Matrix: WATER **SDG Name:** SQ5108

Percent Solids: 0.00 **Lab Sample ID:** SQ5108-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	MDL	LOD
7440-38-2	ARSENIC, TCLP	25	U		P	1	40	13	25
7440-39-3	BARIUM, TCLP	288			P	1	25	7.5	15
7440-43-9	CADMIUM, TCLP	15	U		P	1	25	7.5	15
7440-47-3	CHROMIUM, TCLP	24	J		P	1	50	10	20
7439-92-1	LEAD, TCLP	20	U		P	1	25	10	20
7439-97-6	MERCURY, TCLP	0.10	U		CV	1	0.20	0.050	0.10
7782-49-2	SELENIUM, TCLP	35	U		P	1	50	18	35
7440-22-4	SILVER, TCLP	20	U		P	1	50	10	20

Comments:

QC Summary Section

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Concentration Units: ug/L

SAMPLE: ICV

File: IQI29A Sep 29, 2023 10:48

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	10190.00	101.9
ARSENIC	400.0	397.90	99.5
BARIUM	400.0	409.20	102.3
CADMIUM	400.0	409.30	102.3
CALCIUM	10000.0	10120.00	101.2
CHROMIUM	400.0	407.10	101.8
IRON	10000.0	10270.00	102.7
LEAD	400.0	416.80	104.2
MAGNESIUM	10000.0	10420.00	104.2
SELENIUM	400.0	402.20	100.6
SILVER	400.0	405.30	101.3

SAMPLE: CCV

File: IQI29A Sep 29, 2023 11:09

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	13030.00	104.2
ARSENIC	500.0	510.90	102.2
BARIUM	500.0	515.50	103.1
CADMIUM	500.0	516.10	103.2
CALCIUM	12500.0	12880.00	103.0
CHROMIUM	500.0	520.30	104.1
IRON	12500.0	12990.00	103.9
LEAD	500.0	524.20	104.8
MAGNESIUM	12500.0	13040.00	104.3
SELENIUM	500.0	507.10	101.4
SILVER	500.0	518.00	103.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Concentration Units: ug/L

SAMPLE: CCV

File: IQI29A Sep 29, 2023 11:27

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12780.00	102.2
ARSENIC	500.0	510.30	102.1
BARIUM	500.0	508.10	101.6
CADMIUM	500.0	504.90	101.0
CALCIUM	12500.0	12750.00	102.0
CHROMIUM	500.0	512.10	102.4
IRON	12500.0	12770.00	102.2
LEAD	500.0	512.60	102.5
MAGNESIUM	12500.0	12780.00	102.2
SELENIUM	500.0	505.00	101.0
SILVER	500.0	508.30	101.7

SAMPLE: CCV

File: IQI29A Sep 29, 2023 12:21

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12900.00	103.2
ARSENIC	500.0	510.20	102.0
BARIUM	500.0	512.20	102.4
CADMIUM	500.0	513.90	102.8
CALCIUM	12500.0	12650.00	101.2
CHROMIUM	500.0	518.80	103.8
IRON	12500.0	12820.00	102.6
LEAD	500.0	522.10	104.4
MAGNESIUM	12500.0	12940.00	103.5
SELENIUM	500.0	509.50	101.9
SILVER	500.0	516.00	103.2

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Concentration Units: ug/L

SAMPLE: CCV

File: IQI29A Sep 29, 2023 13:13

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	13520.00	108.2
ARSENIC	500.0	535.70	107.1
BARIUM	500.0	536.10	107.2
CADMIUM	500.0	539.60	107.9
CALCIUM	12500.0	13420.00	107.4
CHROMIUM	500.0	542.10	108.4
IRON	12500.0	13480.00	107.8
LEAD	500.0	548.60	109.7
MAGNESIUM	12500.0	13590.00	108.7
SELENIUM	500.0	531.50	106.3
SILVER	500.0	538.70	107.7

SAMPLE: CCV

File: IQI29A Sep 29, 2023 14:05

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	13330.00	106.6
ARSENIC	500.0	517.70	103.5
BARIUM	500.0	525.50	105.1
CADMIUM	500.0	524.80	105.0
CALCIUM	12500.0	13140.00	105.1
CHROMIUM	500.0	530.60	106.1
IRON	12500.0	13260.00	106.1
LEAD	500.0	532.70	106.5
MAGNESIUM	12500.0	13240.00	105.9
SELENIUM	500.0	514.70	102.9
SILVER	500.0	527.60	105.5

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Concentration Units: ug/L

SAMPLE: ICV

File: MQI28B Sep 28, 2023 14:06

Analyte	True	Found	%R (1)
MERCURY	6.0	6.09	101.5

SAMPLE: CCV

File: MQI28B Sep 28, 2023 14:14

Analyte	True	Found	%R (1)
MERCURY	5.0	5.09	101.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Concentration Units: ug/L

SAMPLE: CCV

File: MQI28B Sep 28, 2023 14:44

Analyte	True	Found	%R (1)
MERCURY	5.0	4.99	99.8

SAMPLE: CCV

File: MQI28B Sep 28, 2023 15:15

Analyte	True	Found	%R (1)
MERCURY	5.0	5.02	100.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Concentration Units: ug/L

SAMPLE: CCV

File: MQI28B Sep 28, 2023 15:45

Analyte	True	Found	%R (1)
MERCURY	5.0	5.02	100.4

SAMPLE: CCV

File: MQI28B Sep 28, 2023 16:16

Analyte	True	Found	%R (1)
MERCURY	5.0	4.97	99.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Concentration Units: ug/L

SAMPLE: PQL

File: IQI29A Sep 29, 2023 10:56

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	290.30	96.8
ARSENIC	8.0	7.50	93.8
BARIUM	5.0	5.28	105.6
CADMIUM	5.0	5.07	101.4
CALCIUM	100.0	98.36	98.4
CHROMIUM	10.0	10.08	100.8
IRON	100.0	105.70	105.7
LEAD	5.0	5.66	113.2
MAGNESIUM	100.0	105.40	105.4
SELENIUM	10.0	8.85	88.5
SILVER	10.0	9.53	95.3

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Concentration Units: ug/L

SAMPLE: PQL

File: MQI28B Sep 28, 2023 14:11

Analyte	TRUE	FOUND	% R
MERCURY	0.2	0.21	105.0

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Concentration Units: ug/L

SAMPLE: ICB

File: IQI29A Sep 29, 2023 10:52

Analyte	Result	C
ALUMINUM	10.000	U
ARSENIC	1.400	U
BARIUM	0.410	U
CADMIUM	0.092	U
CALCIUM	11.000	U
CHROMIUM	0.200	U
IRON	3.859	J
LEAD	1.000	U
MAGNESIUM	2.900	U
SELENIUM	2.300	U
SILVER	0.530	U

SAMPLE: CCB

File: IQI29A Sep 29, 2023 11:13

Analyte	Result	C
ALUMINUM	10.000	U
ARSENIC	1.400	U
BARIUM	0.410	U
CADMIUM	0.092	U
CALCIUM	11.000	U
CHROMIUM	0.200	U
IRON	3.600	U
LEAD	1.000	U
MAGNESIUM	2.900	U
SELENIUM	2.300	U
SILVER	0.530	U

SAMPLE: CCB

File: IQI29A Sep 29, 2023 11:31

Analyte	Result	C
ALUMINUM	10.000	U
ARSENIC	3.720	J
BARIUM	0.410	U
CADMIUM	0.092	U
CALCIUM	11.000	U
CHROMIUM	0.200	U
IRON	3.600	U
LEAD	1.000	U
MAGNESIUM	2.900	U
SELENIUM	2.912	J
SILVER	0.530	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Concentration Units: ug/L

SAMPLE: CCB
File: IQI29A Sep 29, 2023 12:25

Analyte	Result	C
ALUMINUM	10.000	U
ARSENIC	1.592	J
BARIUM	0.410	U
CADMIUM	0.092	U
CALCIUM	11.000	U
CHROMIUM	0.324	J
IRON	4.769	J
LEAD	1.000	U
MAGNESIUM	2.900	U
SELENIUM	3.572	J
SILVER	0.530	U

SAMPLE: CCB
File: IQI29A Sep 29, 2023 13:17

Analyte	Result	C
ALUMINUM	10.000	U
ARSENIC	1.860	J
BARIUM	0.410	U
CADMIUM	0.092	U
CALCIUM	11.000	U
CHROMIUM	0.200	U
IRON	3.600	U
LEAD	1.000	U
MAGNESIUM	2.900	U
SELENIUM	2.300	U
SILVER	0.530	U

SAMPLE: CCB
File: IQI29A Sep 29, 2023 14:09

Analyte	Result	C
ALUMINUM	10.000	U
ARSENIC	1.400	U
BARIUM	0.410	U
CADMIUM	0.092	U
CALCIUM	11.000	U
CHROMIUM	0.200	U
IRON	5.430	J
LEAD	1.000	U
MAGNESIUM	2.900	U
SELENIUM	2.300	U
SILVER	0.530	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Concentration Units: ug/L

SAMPLE: ICB

File: MQI28B Sep 28, 2023 14:09

Analyte	Result	C
MERCURY	0.005	J

SAMPLE: CCB

File: MQI28B Sep 28, 2023 14:16

Analyte	Result	C
MERCURY	0.005	J

SAMPLE: CCB

File: MQI28B Sep 28, 2023 14:47

Analyte	Result	C
MERCURY	0.009	J

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Concentration Units: ug/L

SAMPLE: CCB
File: MQI28B Sep 28, 2023 15:17

Analyte	Result	C
MERCURY	0.006	J

SAMPLE: CCB
File: MQI28B Sep 28, 2023 15:48

Analyte	Result	C
MERCURY	0.005	U

SAMPLE: CCB
File: MQI28B Sep 28, 2023 16:18

Analyte	Result	C
MERCURY	0.005	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWQI28HGW1

Matrix: WATER **SDG Name:** SQ5108

QC Batch ID: QI28HGW1

Concentration Units : ug/L

Analyte	RESULT	C
MERCURY	0.10	U

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWQI28ICW2

Matrix: WATER **SDG Name:** SQ5108

QC Batch ID: QI28ICW2

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	5.0	U
BARIUM	3.0	U
CADMIUM	3.0	U
CHROMIUM	4.0	U
LEAD	4.0	U
SELENIUM	7.0	U
SILVER	4.0	U

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Concentration Units: ug/L

SAMPLE: ICSA

File: IQI29A Sep 29, 2023 11:01

Analyte	TRUE	FOUND	% R
ALUMINUM	500000.00	518800.00	103.8
ARSENIC	0	3.01	
BARIUM	2.00	2.48	
CADMIUM	0	1.45	
CALCIUM	500000.00	479100.00	95.8
CHROMIUM	5.20	4.09	
IRON	200000.00	190300.00	95.2
LEAD	0	1.62	
MAGNESIUM	500000.00	452000.00	90.4
SELENIUM	0	-1.70	
SILVER	0	-0.65	

SAMPLE: ICSAB

File: IQI29A Sep 29, 2023 11:05

Analyte	TRUE	FOUND	% R
ALUMINUM	500000.00	512400.00	102.5
ARSENIC	100.00	101.60	102.0
BARIUM	500.00	519.20	103.8
CADMIUM	1000.00	962.90	96.3
CALCIUM	500000.00	485700.00	97.1
CHROMIUM	500.00	500.10	100.0
IRON	200000.00	191500.00	95.8
LEAD	50.00	45.87	92.0
MAGNESIUM	500000.00	459500.00	91.9
SELENIUM	50.00	54.38	108.0
SILVER	200.00	223.80	112.0

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWQI28HGW1

Matrix: WATER **SDG Name:** SQ5108

QC Batch ID: QI28HGW1

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
MERCURY	5.00	5.11	102.2	82	119

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWQI28ICW2

Matrix: WATER **SDG Name:** SQ5108

QC Batch ID: QI28ICW2

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ARSENIC	100	103	102.6	87	113
BARIUM	2000	2120	105.8	88	113
CADMIUM	250	256	102.4	88	113
CHROMIUM	200	214	106.8	90	113
LEAD	100	104	104.4	86	113
SELENIUM	100	100	100.3	83	114
SILVER	50.0	51.3	102.5	84	115

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 01/23/2019

Concentration Units: ug/L

Analyte	PQL/LOQ	IDL	M
ALUMINUM	300	10	P
ARSENIC	8.0	1.4	P
BARIUM	5.0	0.41	P
CADMIUM	5.0	0.092	P
CALCIUM	100	11	P
CHROMIUM	10	0.20	P
IRON	100	3.6	P
LEAD	5.0	1.0	P
MAGNESIUM	100	2.9	P
SELENIUM	10	2.3	P
SILVER	10	0.53	P

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** M

Instrument Name: TELEDYNE M7600 **Date:** 05/10/2022

Concentration Units: ug/L

Analyte	PQL/LOQ	IDL	M
MERCURY	0.20	0.0048	CV

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 06/11/2010

Analyte	LOD	Units	M	EPA Prep./Anal. Method
ARSENIC	5.0	ug/L	P	SW846 3010A / SW846 6010C
BARIUM	3.0	ug/L	P	SW846 3010A / SW846 6010C
CADMIUM	3.0	ug/L	P	SW846 3010A / SW846 6010C
CHROMIUM	4.0	ug/L	P	SW846 3010A / SW846 6010C
LEAD	4.0	ug/L	P	SW846 3010A / SW846 6010C
SELENIUM	7.0	ug/L	P	SW846 3010A / SW846 6010C
SILVER	4.0	ug/L	P	SW846 3010A / SW846 6010C

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** M

Instrument Name: TELEDYNE M7600 **Date:** 05/11/2022

Analyte	LOD	Units	M	EPA Prep./Anal. Method
MERCURY	0.10	ug/L	CV	SW846 7470A / SW846 7470A

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 01/19/2011

Analyte	MDL	Units	M	EPA Prep./Anal. Method
ARSENIC	2.5	ug/L	P	SW846 3010A / SW846 6010C
BARIUM	1.5	ug/L	P	SW846 3010A / SW846 6010C
CADMIUM	1.5	ug/L	P	SW846 3010A / SW846 6010C
CHROMIUM	2.0	ug/L	P	SW846 3010A / SW846 6010C
LEAD	2.0	ug/L	P	SW846 3010A / SW846 6010C
SELENIUM	3.5	ug/L	P	SW846 3010A / SW846 6010C
SILVER	2.0	ug/L	P	SW846 3010A / SW846 6010C

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** M

Instrument Name: TELEDYNE M7600 **Date:** 05/03/2022

Analyte	MDL	Units	M	EPA Prep./Anal. Method
MERCURY	0.050	ug/L	CV	SW846 7470A / SW846 7470A

ICP INTERELEMENT CORRECTION FACTORS

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Instrument Name: THERMO ICAP 6500 **Instrument ID:** I **Date:** 03/10/2021

	Wavelength	Interelement Correction Factors for:												
Analyte	**(nm)**	**Al**	**Ca**	**Fe**	**Mg**	**As**	**Cr**	**Co**	**Cu**	**Mn**	**Mo**	**Ni**	**Ti**	**V**
ALUMINUM	396.15	0.0	0.0003014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0352212	0.0	0.0	0.0
ANTIMONY	206.83	0.0000152	0.0	0.0000225	0.0	0.0000731	0.0199905	0.0	0.0	0.0	-0.0010086	-0.0007236	0.0	-0.0012893
ARSENIC	189.04	-0.0000134	0.0	-0.0001852	0.0	0.0	0.0007091	0.0	0.0	0.0	0.0026341	0.0	0.0	0.0
BARIUM	455.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	313.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0008597	0.0000632
BORON	208.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0316879	0.0	0.0	0.0
CADMIUM	226.50	0.0	0.0	0.0001016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0001135	0.0000816	0.0
CALCIUM	315.89	0.0	0.0	0.0	0.0	0.0	0.0010244	0.0007850	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	267.72	0.0	0.0	-0.0000069	0.0	0.0	0.0	0.0	0.0	0.0004904	0.0	0.0	0.0	0.0001111
COBALT	228.62	0.0	0.0	0.0000032	0.0	0.0	-0.0001286	0.0	0.0	0.0	0.0	0.0001562	0.0020749	0.0
COPPER	327.40	-0.0000204	0.0	0.0000657	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0006988	0.0000301
IRON	259.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0001161	0.0	0.0	0.0
LEAD	220.35	-0.0000997	0.0	0.0000166	0.0	-0.0000864	-0.0000772	-0.0001650	0.0002467	0.0	-0.0014543	0.0001609	-0.0000220	0.0
LITHIUM	670.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	202.58	0.0	0.0	0.0000337	0.0	0.0	0.0	0.1395100	0.0	0.0	0.0145280	0.0	-0.0003978	0.0
MANGANESE	257.61	-0.0000014	0.0	0.0000075	0.0000011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	202.03	0.0	0.0	0.0	0.0	0.0	0.0000270	0.0	0.0	-0.0000204	0.0	0.0	0.0	-0.0001163
NICKEL	231.60	0.0	0.0	-0.0000126	0.0	0.0	0.0	0.0001405	0.0	0.0	0.0001979	0.0	0.0	0.0
POTASSIUM	766.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	196.09	0.0000183	0.0	0.0000261	0.0	0.0001381	0.0	0.0003459	0.0	0.0007276	0.0	0.0	0.0	0.0005419
SILICON	251.61	0.0	0.0	-0.0000097	0.0	0.0	0.0	0.0	0.0	0.0	0.0021008	0.0	-0.0040432	0.0
SILVER	328.07	0.0	0.0	-0.0001580	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0000484	0.0
SODIUM	589.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	421.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	190.86	0.0000079	0.0	0.0000039	0.0	0.0	0.0	0.0036144	-0.0000467	-0.0025332	-0.0000004	0.0	-0.0012997	-0.0014201
TIN	189.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	334.90	0.0	0.0	0.0	0.0	0.0	0.0001510	0.0	0.0	0.0	-0.0000929	0.0	0.0	0.0
VANADIUM	292.40	0.0	0.0	0.0000080	0.0	0.0	-0.0025467	0.0	0.0	-0.0003454	-0.0089122	0.0	0.0002897	0.0
ZINC	206.20	0.0	0.0	0.0	0.0	0.0	-0.0010444	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FORM XI - IN

ICP LINEAR RANGES

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 08/11/2022

Concentration Units: ug/L

Analyte	Integration Time (sec)	Linear Range	M
ALUMINUM	5.00	500000	P
ARSENIC	45.00	20000	P
BARIUM	5.00	20000	P
CADMIUM	45.00	20000	P
CALCIUM	5.00	500000	P
CHROMIUM	10.00	20000	P
IRON	5.00	250000	P
LEAD	45.00	20000	P
MAGNESIUM	45.00	200000	P
SELENIUM	45.00	20000	P
SILVER	10.00	2000	P

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** QI28HGW1

Matrix: WATER **SDG Name:** SQ5108

Method: CV **Prep Date:** 09/28/2023

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWQI28HGW1	LCSWQI28HGW1	0.025	0.025	
PBWQI28HGW1	PBWQI28HGW1	0.025	0.025	
DOW-AQWC-01	SQ5108-001	0.025	0.025	

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** QI28ICW2

Matrix: WATER **SDG Name:** SQ5108

Method: P **Prep Date:** 09/28/2023

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWQI28ICW2	LCSWQI28ICW2	0.05	0.05	
PBWQI28ICW2	PBWQI28ICW2	0.05	0.05	
DOW-AQWC-01	SQ5108-001	0.01	0.05	

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Instrument ID: THERMO ICAP 6500 **File Name:** IQI29A

Date: 09/29/2023 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements										
Blank		1	10:39	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
Std 1		1	10:43	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
ICV		1	10:48	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
ICB		1	10:52	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
PQL		1	10:56	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
ICSA		1	11:01	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
ICSAB		1	11:05	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
CCV		1	11:09	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
CCB		1	11:13	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
ZZZZZZ		1	11:18											
ZZZZZZ		1	11:23											
CCV		1	11:27	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
CCB		1	11:31	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
ZZZZZZ		1	11:36											
ZZZZZZ		1	11:42											
ZZZZZZ		1	11:47											
ZZZZZZ		1	11:51											
LCSWQI28ICW2		1	11:55		AS	BA	CD		CR		PB		SE	AG
PBWQI28ICW2		1	12:00		AS	BA	CD		CR		PB		SE	AG
ZZZZZZ		1	12:04											
ZZZZZZ		1	12:08											
ZZZZZZ		1	12:12											
ZZZZZZ		1	12:17											
CCV		1	12:21	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
CCB		1	12:25	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG
ZZZZZZ		1	12:30											
ZZZZZZ		1	12:34											

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Instrument ID: THERMO ICAP 6500 **File Name:** IQI29A

Date: 09/29/2023 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements												
ZZZZZZ		1	12:38													
ZZZZZZ		1	12:43													
ZZZZZZ		1	12:47													
ZZZZZZ		1	12:52													
ZZZZZZ		5	12:56													
ZZZZZZ		1	13:00													
ZZZZZZ		1	13:04													
ZZZZZZ		1	13:08													
CCV		1	13:13	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		
CCB		1	13:17	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		
ZZZZZZ		1	13:21													
ZZZZZZ		1	13:26													
ZZZZZZ		1	13:30													
ZZZZZZ		1	13:34													
ZZZZZZ		1	13:39													
ZZZZZZ		1	13:43													
ZZZZZZ		1	13:47													
SQ5108-001	DOW-AQWC-01	1	13:52		AS	BA	CD		CR		PB		SE	AG		
ZZZZZZ		5	13:56													
ZZZZZZ		1	14:00													
CCV		1	14:05	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		
CCB		1	14:09	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Instrument ID: TELEDYNE M7600 **File Name:** MQI28B

Date: 09/28/2023 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
Calibration Blank		1	13:50	Hg
Standard #1 (0.2 ug/		1	13:53	Hg
Standard #2 (0.5ug/L		1	13:55	Hg
Standard #3 (1.0 ug/		1	13:58	Hg
Standard #4 (5.0 ug/		1	14:00	Hg
Standard #5 (10.0 ug		1	14:03	Hg
ICV		1	14:06	HG
ICB		1	14:09	HG
PQL		1	14:11	HG
CCV		1	14:14	HG
CCB		1	14:16	HG
ZZZZZZ		1	14:19	
ZZZZZZ		1	14:22	
ZZZZZZ		1	14:24	
ZZZZZZ		1	14:27	
ZZZZZZ		1	14:29	
ZZZZZZ		1	14:32	
ZZZZZZ		1	14:34	
ZZZZZZ		1	14:37	
ZZZZZZ		1	14:39	
ZZZZZZ		1	14:42	
CCV		1	14:44	HG
CCB		1	14:47	HG
ZZZZZZ		1	14:49	
ZZZZZZ		1	14:52	
ZZZZZZ		1	14:55	
ZZZZZZ		1	14:57	

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Instrument ID: TELEDYNE M7600 **File Name:** MQI28B

Date: 09/28/2023 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
ZZZZZZ		1	15:00	
ZZZZZZ		1	15:02	
ZZZZZZ		1	15:05	
ZZZZZZ		1	15:07	
ZZZZZZ		1	15:10	
ZZZZZZ		1	15:12	
CCV		1	15:15	HG
CCB		1	15:17	HG
ZZZZZZ		1	15:20	
ZZZZZZ		1	15:22	
ZZZZZZ		1	15:25	
LCSWQI28HGW1		1	15:28	HG
PBWQI28HGW1		1	15:30	HG
ZZZZZZ		1	15:33	
ZZZZZZ		1	15:35	
ZZZZZZ		1	15:38	
ZZZZZZ		1	15:40	
ZZZZZZ		1	15:43	
CCV		1	15:45	HG
CCB		1	15:48	HG
ZZZZZZ		1	15:50	
ZZZZZZ		1	15:53	
SQ5108-001	DOW-AQWC-01	1	15:56	HG
ZZZZZZ		1	15:58	
ZZZZZZ		1	16:01	
ZZZZZZ		1	16:03	
ZZZZZZ		1	16:06	

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SQ5108

Instrument ID: TELEDYNE M7600 **File Name:** MQI28B

Date: 09/28/2023 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
ZZZZZZ		1	16:08	
ZZZZZZ		1	16:11	
ZZZZZZ		1	16:13	
CCV		1	16:16	HG
CCB		1	16:18	HG

Raw Data Section

KATAHDIN ANALYTICAL SERVICES, LLC
METALS ANALYSIS RUN INFORMATION SHEET

INSTR. ID: I (Thermo iCAP 6500) **ANALYST**: TT **ANALYSIS DATE**: 09/29/2023

METHOD: ICP
☑ 200.7
☑ 6010
☑ DOD
☐ _____

FILE NAME: IQI29A

Reviewed By: SA 10/02/23

The pHs of all samples that were tested by direct analysis in this analytical run were checked just prior to analysis and confirmed to be <2. The time of preservation of these samples was checked in the "Measured Turbidity and Preservation of Incoming Samples" logbook to verify that they had been preserved at least 16 hours prior to analysis. These verifications were performed by TT (initials) on 9/27/23 (date).

STANDARDS USED:

Standard Name	Standard ID	Prep Date	Expiration Date	Standard Conc.
Cal. Blk/ICB/CCB	MW21712	08/25/2023	08/25/2024	0 ug/L
Standard 1	MW21750	09/27/2023	12/27/2023	Varies by Element
ICV	MW21753	09/27/2023	12/27/2023	Varies by Element
PQL	MW21752	09/27/2023	12/27/2023	Varies by Element
LRS1	MW21760	09/29/2023	12/29/2023	Varies by Element
LRS2	MW21734	09/12/2023	09/30/2023	Varies by Element
ICSA	MW21693	08/07/2023	11/07/2023	Varies by Element
ICSAB	MW21740	09/15/2023	12/15/2023	Varies by Element
CCV	MW21757	09/28/2023	12/28/2023	Varies by Element
Internal Standard	MW21708	09/27/2023	12/27/2023	5.0 mg/L Yttrium

Additional Comments and Notes:

SA 10/02/23

25x serial diln.: 2.0mL of 5x diluted sample (pipet M37) + 8.0mL of MW21712 (pipet M37)

2x diln.: 4.0 mL of sample (pipet M37) + 4.0 mL of MW21712 (pipet M37)

10x diln.: 1.0 mL of sample (pipet M19) + 9.0 mL of MW21712 (pipet M25)

5x diln.: 1.6 mL of sample (pipet M19) + 6.4 mL of MW21712 (pipet M37)

50x diln.: 0.20 mL of sample (pipet M27) + 9.80 mL of MW21712 (pipet M37)

Post Spike: 4ul MS2399 (pipet M17), 80ul MS2411 (pipet M27), 40ul MS2444 (pipet M27), 40ul MS2401 (pipet M27) to 8.0mL of sample (pipet M31)

INSTRUMENT RUNLOG

Instrument: ICAP 6500

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
Blank	1.000	IQI29A	09/29/2023	10:39	TT
Std 1	1.000	IQI29A	09/29/2023	10:43	TT
ICV	1.000	IQI29A	09/29/2023	10:48	TT
ICB	1.000	IQI29A	09/29/2023	10:52	TT
PQL	1.000	IQI29A	09/29/2023	10:56	TT
ICSA	1.000	IQI29A	09/29/2023	11:01	TT
ICSAB	1.000	IQI29A	09/29/2023	11:05	TT
CCV	1.000	IQI29A	09/29/2023	11:09	TT
CCB	1.000	IQI29A	09/29/2023	11:13	TT
LRS1	1.000	IQI29A	09/29/2023	11:18	TT
LRS2	1.000	IQI29A	09/29/2023	11:23	TT
CCV	1.000	IQI29A	09/29/2023	11:27	TT
CCB	1.000	IQI29A	09/29/2023	11:31	TT
LCSWQI28ICW1	1.000	IQI29A	09/29/2023	11:36	TT
PBWQI28ICW1	1.000	IQI29A	09/29/2023	11:42	TT
LCSWQI25ICW1	1.000	IQI29A	09/29/2023	11:47	TT
PBWQI25ICW1	1.000	IQI29A	09/29/2023	11:51	TT
LCSWQI28ICW2	1.000	IQI29A	09/29/2023	11:55	TT
PBWQI28ICW2	1.000	IQI29A	09/29/2023	12:00	TT
LC2WQI27ICW1	1.000	IQI29A	09/29/2023	12:04	TT
LCSWQI27ICW1	1.000	IQI29A	09/29/2023	12:08	TT
PBWQI27ICW1	1.000	IQI29A	09/29/2023	12:12	TT
LC2WQI25ICW1	1.000	IQI29A	09/29/2023	12:17	TT
CCV	1.000	IQI29A	09/29/2023	12:21	TT
CCB	1.000	IQI29A	09/29/2023	12:25	TT
SQ5008-001	1.000	IQI29A	09/29/2023	12:30	TT
PBT1813A	1.000	IQI29A	09/29/2023	12:34	TT
PBT1814A	1.000	IQI29A	09/29/2023	12:38	TT
RINSE1	1.000	IQI29A	09/29/2023	12:43	TT
SQ5041-001	1.000	IQI29A	09/29/2023	12:47	TT
SQ5080-002	1.000	IQI29A	09/29/2023	12:52	TT
SQ5080-002L	5.000	IQI29A	09/29/2023	12:56	TT
SQ5080-002N	1.000	IQI29A	09/29/2023	13:00	TT
SQ5080-002O	1.000	IQI29A	09/29/2023	13:04	TT
SQ5080-003	1.000	IQI29A	09/29/2023	13:08	TT
CCV	1.000	IQI29A	09/29/2023	13:13	TT
CCB	1.000	IQI29A	09/29/2023	13:17	TT
SQ5102-001	1.000	IQI29A	09/29/2023	13:21	TT
SQ5102-002	1.000	IQI29A	09/29/2023	13:26	TT
SQ5102-003	1.000	IQI29A	09/29/2023	13:30	TT
SQ5102-004	1.000	IQI29A	09/29/2023	13:34	TT
SQ5102-005	1.000	IQI29A	09/29/2023	13:39	TT
SQ5102-006	1.000	IQI29A	09/29/2023	13:43	TT
SQ5108-001	1.000	IQI29A	09/29/2023	13:47	TT

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
SQ5108-001	1.000	IQI29A	09/29/2023	13:52	TT
SQ5108-001L	5.000	IQI29A	09/29/2023	13:56	TT
SQ5108-001N	1.000	IQI29A	09/29/2023	14:00	TT
CCV	1.000	IQI29A	09/29/2023	14:05	TT
CCB	1.000	IQI29A	09/29/2023	14:09	TT
SQ5108-001O	1.000	IQI29A	09/29/2023	14:13	TT
SQ5170-001	1.000	IQI29A	09/29/2023	14:18	TT
SQ5170-002	1.000	IQI29A	09/29/2023	14:22	TT
SQ5170-003	1.000	IQI29A	09/29/2023	14:26	TT
SQ5170-004	1.000	IQI29A	09/29/2023	14:31	TT
SQ4950-001	2.000	IQI29A	09/29/2023	14:35	TT
SQ5078-004	10.00	IQI29A	09/29/2023	14:39	TT
RINSE4	1.000	IQI29A	09/29/2023	14:44	TT
SQ5112-001	1.000	IQI29A	09/29/2023	14:48	TT
SQ5112-002	1.000	IQI29A	09/29/2023	14:53	TT
CCV	1.000	IQI29A	09/29/2023	14:57	TT
CCB	1.000	IQI29A	09/29/2023	15:01	TT
SQ5112-003	1.000	IQI29A	09/29/2023	15:05	TT
SQ5135-001	1.000	IQI29A	09/29/2023	15:10	TT
SQ5151-001	1.000	IQI29A	09/29/2023	15:14	TT
LCSOQI27ICS1	1.000	IQI29A	09/29/2023	15:18	TT
PBSQI27ICS1	1.000	IQI29A	09/29/2023	15:23	TT
SQ5083-001	1.000	IQI29A	09/29/2023	15:27	TT
SQ5083-002	1.000	IQI29A	09/29/2023	15:31	TT
SQ5169-002	1.000	IQI29A	09/29/2023	15:36	TT
SQ5040-001	1.000	IQI29A	09/29/2023	15:40	TT
SQ5077-002	1.000	IQI29A	09/29/2023	15:44	TT
CCV	1.000	IQI29A	09/29/2023	15:49	TT
CCB	1.000	IQI29A	09/29/2023	15:53	TT
SQ5115-001	1.000	IQI29A	09/29/2023	15:57	TT
SQ5115-002	1.000	IQI29A	09/29/2023	16:01	TT
SQ5115-003	1.000	IQI29A	09/29/2023	16:06	TT
SQ5115-005	1.000	IQI29A	09/29/2023	16:10	TT
SQ5115-008	1.000	IQI29A	09/29/2023	16:14	TT
SQ5115-009	1.000	IQI29A	09/29/2023	16:18	TT
SQ5115-010	1.000	IQI29A	09/29/2023	16:23	TT
SQ5115-011	1.000	IQI29A	09/29/2023	16:27	TT
RINSE6	1.000	IQI29A	09/29/2023	16:31	TT
LCSWQI27ICW2	1.000	IQI29A	09/29/2023	16:36	TT
CCV	1.000	IQI29A	09/29/2023	16:40	TT
CCB	1.000	IQI29A	09/29/2023	16:44	TT
PBWQI27ICW2	1.000	IQI29A	09/29/2023	16:48	TT
SQ5131-002	10.00	IQI29A	09/29/2023	16:53	TT
SQ5131-017	10.00	IQI29A	09/29/2023	16:57	TT
SQ5131-019	10.00	IQI29A	09/29/2023	17:02	TT
SQ5131-025	10.00	IQI29A	09/29/2023	17:06	TT
CCV	1.000	IQI29A	09/29/2023	17:10	TT

Intensity Report

Author:

Published: 10/2/2023 9:07:58AM

Notes:

Blank

Method Name: FAST-2022_POP Method Revision: 444

Analyst Name: TT

Acquire Date: 9/29/2023 10:39:31AM Sample Type: Standard

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.00003900	Cts/S	0.00002200	57.24	7.153
Al3961_R		-0.0001250	Cts/S	0.0000	0.3831	-1.160
As1891_A		-0.0004080	Cts/S	0.00003300	8.013	-3.205
B_2089_A		0.0005550	Cts/S	0.000003000	0.4641	4.364
Ba4554_R		0.001800	Cts/S	0.0002500	13.89	16.71
Be3130_R		-0.0001040	Cts/S	0.00004500	43.20	-0.9619
Ca3158_R		-0.003040	Cts/S	0.0001670	5.492	-28.21
Cd2265_A		-0.0003310	Cts/S	0.000002000	0.4554	-2.599
Co2286_A		0.00007400	Cts/S	0.00002400	32.69	0.5835
Cr2677_A		0.000005000	Cts/S	0.000001000	25.36	0.9832
Cu3273_A		0.00008200	Cts/S	0.000009000	10.59	14.97
Fe2599_R		0.00004000	Cts/S	0.000006000	15.47	0.3746
K_7664_R		0.006428	Cts/S	0.0002940	4.571	59.66
Li6707_R		-0.00006200	Cts/S	0.0004860	787.2	-0.5663
Mg2025_A		-0.0008120	Cts/S	0.00003800	4.678	-6.383
Mn2576_R		-0.0001750	Cts/S	0.00002400	13.85	-1.623
Mo2020_A		0.0001730	Cts/S	0.00001900	10.80	1.356
Na5895_R		0.03831	Cts/S	0.001018	2.657	355.5
Ni2316_A		-0.0001840	Cts/S	0.00001400	7.427	-1.446
Pb2203_A		-0.0001440	Cts/S	0.00005500	38.19	-1.134
Sb2068_A		-0.00004100	Cts/S	0.000001000	3.469	-0.3196
Se1960_A		0.0002980	Cts/S	0.000005000	1.634	2.339
Si2516_R		0.001473	Cts/S	0.000006000	0.3947	13.67
Sn1899_A		0.0003110	Cts/S	0.00001500	4.749	2.441
Sr4215_R		-0.003576	Cts/S	0.0001390	3.895	-33.19
Ti3349_A		0.00001500	Cts/S	0.00003400	234.3	2.675
Tl1908_A		-0.0003240	Cts/S	0.0001020	31.52	-2.547
V_2924_A		-0.00004300	Cts/S	0.000006000	13.57	-7.910
Zn2062_A		0.0001820	Cts/S	0.000005000	2.628	1.430
Y_3600_R		9,280.2	Cts/S	28.215	0.30403	9,280.2
Y_2243_A		7,857.4	Cts/S	44.611	0.56776	7,857.4
Y_3600_A		182,400	Cts/S	367.21	0.20132	182,400

Std 1

Method Name: FAST-2022_POP Method Revision: 444

Analyst Name: TT

Acquire Date: 9/29/2023 10:43:54AM Sample Type: Standard

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.1001	Cts/S	0.0001790	0.1788	17,700
Al3961_R		1.535	Cts/S	0.01059	0.6897	14,100
As1891_A		0.04491	Cts/S	0.0002090	0.4654	343.4
B_2089_A		0.2309	Cts/S	0.0003140	0.1362	1,766
Ba4554_R		4.536	Cts/S	0.002659	0.05862	41,660
Be3130_R		5.216	Cts/S	0.04601	0.8821	47,890
Ca3158_R		1.351	Cts/S	0.01093	0.8092	12,410
Cd2265_A		2.257	Cts/S	0.003466	0.1536	17,260
Co2286_A		0.5043	Cts/S	0.0009220	0.1828	3,856
Cr2677_A		0.06705	Cts/S	0.0001990	0.2966	11,860
Cu3273_A		0.1135	Cts/S	0.0003200	0.2818	20,070
Fe2599_R		2.320	Cts/S	0.01991	0.8581	21,300
K_7664_R		1.175	Cts/S	0.002553	0.2173	10,790
Li6707_R		0.9983	Cts/S	0.002597	0.2601	9,166

Std 1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 10:43:54AM
Sample Type: Standard

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Mg2025_A		1.069	Cts/S	0.0005300	0.04955	8,176
Mn2576_R		0.3416	Cts/S	0.002786	0.8154	3,137
Mo2020_A		0.3357	Cts/S	0.001146	0.3414	2,567
Na5895_R		5.075	Cts/S	0.02859	0.5634	46,600
Ni2316_A		0.3581	Cts/S	0.00009100	0.02529	2,738
Pb2203_A		0.1701	Cts/S	0.0003110	0.1831	1,300
Sb2068_A		0.08178	Cts/S	0.0004610	0.5633	625.4
Se1960_A		0.03437	Cts/S	0.00006400	0.1859	262.9
Si2516_R		0.8066	Cts/S	0.002083	0.2583	7,407
Sn1899_A		0.07927	Cts/S	0.000001000	0.001536	606.2
Sr4215_R		5.093	Cts/S	0.0005780	0.01135	46,770
Ti3349_A		0.4108	Cts/S	0.0001190	0.02886	72,660
Tl1908_A		0.06741	Cts/S	0.0001940	0.2880	515.5
V_2924_A		0.07595	Cts/S	0.00004600	0.06021	13,430
Zn2062_A		0.4776	Cts/S	0.001719	0.3599	3,652
Y_3600_R		9,182.4	Cts/S	28.885	0.31457	9,182.4
Y_2243_A		7,647.1	Cts/S	24.079	0.31487	7,647.1
Y_3600_A		176,850	Cts/S	526.19	0.29753	176,850

ICV

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 10:48:01AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		405.3	ug/L	6.003	1.481	7,207
Al3961_R		10,190	ug/L	37.02	0.3632	5,655
As1891_A		397.9	ug/L	0.7563	0.1901	135.6
B_2089_A		405.3	ug/L	0.3257	0.08036	723.4
Ba4554_R		409.2	ug/L	0.7682	0.1877	16,780
Be3130_R		407.6	ug/L	1.112	0.2729	19,210
Ca3158_R		10,120	ug/L	46.90	0.4636	4,923
Cd2265_A		409.3	ug/L	0.6723	0.1643	7,108
Co2286_A		412.2	ug/L	0.8275	0.2007	1,600
Cr2677_A		407.1	ug/L	7.292	1.791	4,847
Cu3273_A		406.8	ug/L	4.148	1.020	8,208
Fe2599_R		10,270	ug/L	25.91	0.2522	8,613
K_7664_R		13,940	ug/L	26.32	0.1888	5,944
Li6707_R		416.8	ug/L	0.1118	0.02681	3,758
Mg2025_A		10,420	ug/L	36.05	0.3459	3,426
Mn2576_R		411.0	ug/L	1.004	0.2442	1,268
Mo2020_A		415.7	ug/L	0.3749	0.09018	1,075
Na5895_R		10,390	ug/L	35.03	0.3370	19,260
Ni2316_A		414.1	ug/L	0.8768	0.2118	1,140
Pb2203_A		416.8	ug/L	0.9185	0.2204	544.9
Sb2068_A		412.9	ug/L	2.482	0.6012	259.6
Se1960_A		402.2	ug/L	2.424	0.6028	107.8
Si2516_R		10,080	ug/L	13.63	0.1353	2,888
Sn1899_A		415.2	ug/L	0.3719	0.08957	254.7
Sr4215_R		411.3	ug/L	0.6175	0.1501	18,910
Ti3349_A		408.8	ug/L	3.371	0.8246	29,820
Tl1908_A		421.2	ug/L	0.1564	0.03713	217.1
V_2924_A		409.3	ug/L	4.671	1.141	5,515
Zn2062_A		412.7	ug/L	1.713	0.4150	1,518
Y_3600_R		9,034.4	Cts/S	52.426	0.58030	9,034.4
Y_2243_A		7,697.0	Cts/S	12.753	0.16569	7,697.0
Y_3600_A		177,580	Cts/S	1,681.1	0.94666	177,580

ICB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 10:52:13AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.1329	ug/L	0.09595	72.22	9.516
Al3961_R		-5.582	ug/L	0.8852	15.86	-4.240
As1891_A		0.8280	ug/L	0.2033	24.55	-2.906
B_2089_A		0.08320	ug/L	0.1131	135.9	4.633
Ba4554_R		0.02010	ug/L	0.09805	487.8	17.33
Be3130_R		-0.008799	ug/L	0.06912	785.5	-1.374
Ca3158_R		-6.767	ug/L	0.2846	4.205	-31.23
Cd2265_A		-0.02422	ug/L	0.07456	307.9	-3.017
Co2286_A		-0.04329	ug/L	0.02192	50.65	0.4123
Cr2677_A		0.06228	ug/L	0.07338	117.8	1.735
Cu3273_A		-0.09295	ug/L	0.1199	129.0	12.99
Fe2599_R		3.859	ug/L	0.7091	18.38	3.652
K_7664_R		0.9199	ug/L	30.38	3,303	59.33
Li6707_R		-0.3997	ug/L	0.5518	138.1	-4.223
Mg2025_A		-1.296	ug/L	2.659	205.1	-6.802
Mn2576_R		-0.04084	ug/L	0.4865	1,191	-1.732
Mo2020_A		2.274	ug/L	0.2448	10.76	7.348
Na5895_R		-21.00	ug/L	5.216	24.84	312.4
Ni2316_A		0.004696	ug/L	0.3101	6,605	-1.431
Pb2203_A		-0.1675	ug/L	0.8967	535.4	-1.362
Sb2068_A		0.6308	ug/L	0.4309	68.31	0.08402
Se1960_A		0.7081	ug/L	2.521	356.1	2.527
Si2516_R		39.82	ug/L	11.58	29.07	25.04
Sn1899_A		-0.2395	ug/L	0.6767	282.6	2.292
Sr4215_R		0.1775	ug/L	0.1271	71.58	-24.49
Ti3349_A		0.07450	ug/L	0.005202	6.983	8.187
Tl1908_A		1.105	ug/L	0.4929	44.59	-1.959
V_2924_A		0.1937	ug/L	0.09891	51.07	-5.448
Zn2062_A		0.02771	ug/L	0.02547	91.91	1.533
Y_3600_R		9,167.6	Cts/S	4.2690	0.046567	9,167.6
Y_2243_A		7,852.9	Cts/S	6.6915	0.085210	7,852.9
Y_3600_A		181,340	Cts/S	380.77	0.20998	181,340

PQL

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 10:56:37AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		9.530	ug/L	0.2018	2.117	181.1
Al3961_R		290.3	ug/L	6.068	2.090	162.5
As1891_A		7.500	ug/L	0.6444	8.592	-0.5240
B_2089_A		49.92	ug/L	0.3159	0.6328	92.02
Ba4554_R		5.279	ug/L	0.2620	4.963	236.2
Be3130_R		4.924	ug/L	0.09652	1.960	234.4
Ca3158_R		98.36	ug/L	5.372	5.461	21.01
Cd2265_A		5.072	ug/L	0.005410	0.1067	86.81
Co2286_A		10.29	ug/L	0.1812	1.761	41.16
Cr2677_A		10.08	ug/L	0.1112	1.103	124.3
Cu3273_A		24.87	ug/L	0.6108	2.456	529.2
Fe2599_R		105.7	ug/L	3.026	2.863	90.40
K_7664_R		996.2	ug/L	4.817	0.4836	486.5
Li6707_R		105.5	ug/L	0.5823	0.5519	966.3
Mg2025_A		105.4	ug/L	1.086	1.030	29.19
Mn2576_R		5.482	ug/L	0.8000	14.59	15.60
Mo2020_A		10.97	ug/L	0.03478	0.3169	30.11
Na5895_R		1,014	ug/L	11.96	1.180	2,227
Ni2316_A		10.54	ug/L	0.1208	1.146	28.07

PQL

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 10:56:37AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		5.660	ug/L	0.2510	4.434	6.372
Sb2068_A		8.152	ug/L	0.1816	2.228	4.269
Se1960_A		8.852	ug/L	2.536	28.65	4.688
Si2516_R		218.6	ug/L	6.066	2.775	76.88
Sn1899_A		103.6	ug/L	0.3868	0.3734	66.33
Sr4215_R		10.24	ug/L	0.2790	2.726	446.1
Ti3349_A		15.02	ug/L	0.2134	1.421	1,129
Tl1908_A		16.40	ug/L	0.006434	0.03924	6.146
V_2924_A		10.15	ug/L	0.05076	0.4999	132.8
Zn2062_A		20.41	ug/L	0.05420	0.2655	77.60
Y_3600_R		9,180.1	Cts/S	27.558	0.30019	9,180.1
Y_2243_A		7,812.3	Cts/S	5.3995	0.069115	7,812.3
Y_3600_A		182,480	Cts/S	1,929.4	1.0573	182,480

ICSA

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:01:00AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.6549	ug/L	0.3293	50.28	-0.5354
Al3961_R		518,800	ug/L	1,672	0.3223	278,400
As1891_A		3.008	ug/L	0.3244	10.78	-15.08
B_2089_A		-0.05953	ug/L	0.4436	745.2	3.659
Ba4554_R		2.482	ug/L	0.08489	3.420	114.2
Be3130_R		0.07809	ug/L	0.02485	31.83	2.428
Ca3158_R		479,100	ug/L	103.8	0.02166	227,000
Cd2265_A		1.448	ug/L	0.04239	2.928	395.7
Co2286_A		-0.2317	ug/L	0.3144	135.7	3.483
Cr2677_A		4.095	ug/L	0.2174	5.308	30.00
Cu3273_A		-3.691	ug/L	0.7174	19.44	-18.69
Fe2599_R		190,300	ug/L	1,249	0.6564	154,400
K_7664_R		231.5	ug/L	20.51	8.860	150.9
Li6707_R		8.772	ug/L	1.473	16.79	76.01
Mg2025_A		452,000	ug/L	573.5	0.1269	132,900
Mn2576_R		-0.7452	ug/L	0.5363	71.96	0.8433
Mo2020_A		-1.836	ug/L	0.1536	8.364	-3.066
Na5895_R		222.0	ug/L	5.399	2.432	726.4
Ni2316_A		1.929	ug/L	0.1092	5.660	-11.54
Pb2203_A		1.623	ug/L	1.201	74.00	-48.84
Sb2068_A		-2.614	ug/L	1.207	46.18	1.579
Se1960_A		-1.703	ug/L	2.535	148.9	6.480
Si2516_R		28.06	ug/L	12.83	45.73	13.93
Sn1899_A		6.824	ug/L	0.7323	10.73	5.874
Sr4215_R		4.442	ug/L	0.2105	4.739	166.8
Ti3349_A		5.708	ug/L	0.05151	0.9025	369.7
Tl1908_A		-2.375	ug/L	0.5326	22.43	-2.568
V_2924_A		-0.2245	ug/L	0.05596	24.93	2.299
Zn2062_A		3.318	ug/L	0.1856	5.594	12.21
Y_3600_R		8,748.1	Cts/S	81.974	0.93705	8,748.1
Y_2243_A		6,914.0	Cts/S	11.292	0.16333	6,914.0
Y_3600_A		156,680	Cts/S	990.59	0.63222	156,680

ICSAB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:05:21AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

ICSAB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:05:21AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		223.8	ug/L	0.4762	0.2128	3,499
Al3961_R		512,400	ug/L	4,823	0.9412	272,600
As1891_A		101.6	ug/L	1.046	1.029	15.99
B_2089_A		497.7	ug/L	5.456	1.096	780.1
Ba4554_R		519.2	ug/L	2.263	0.4358	20,440
Be3130_R		507.9	ug/L	0.1369	0.02695	22,970
Ca3158_R		485,700	ug/L	6,023	1.240	228,100
Cd2265_A		962.9	ug/L	13.25	1.376	15,060
Co2286_A		473.8	ug/L	5.915	1.248	1,624
Cr2677_A		500.1	ug/L	0.2710	0.05419	5,215
Cu3273_A		541.3	ug/L	1.283	0.2371	9,610
Fe2599_R		191,500	ug/L	507.6	0.2651	154,100
K_7664_R		21,960	ug/L	89.04	0.4054	8,960
Li6707_R		562.9	ug/L	1.227	0.2180	4,873
Mg2025_A		459,500	ug/L	4,413	0.9603	132,500
Mn2576_R		488.0	ug/L	3.468	0.7106	1,449
Mo2020_A		480.8	ug/L	6.662	1.386	1,095
Na5895_R		21,570	ug/L	78.51	0.3639	38,020
Ni2316_A		939.0	ug/L	12.70	1.352	2,266
Pb2203_A		45.87	ug/L	0.8671	1.890	3.426
Sb2068_A		635.7	ug/L	7.473	1.175	354.9
Se1960_A		54.38	ug/L	3.596	6.612	19.45
Si2516_R		1,984	ug/L	1.519	0.07656	549.2
Sn1899_A		476.6	ug/L	8.980	1.884	257.2
Sr4215_R		513.5	ug/L	3.486	0.6788	22,670
Ti3349_A		499.0	ug/L	0.6414	0.1286	31,960
Tl1908_A		89.41	ug/L	4.073	4.556	39.24
V_2924_A		502.7	ug/L	1.407	0.2798	5,962
Zn2062_A		954.0	ug/L	16.21	1.699	3,091
Y_3600_R		8,672.8	Cts/S	117.01	1.3492	8,672.8
Y_2243_A		6,779.6	Cts/S	59.247	0.87390	6,779.6
Y_3600_A		155,890	Cts/S	383.67	0.24611	155,890

CCV

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:09:38AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		518.0	ug/L	0.5391	0.1041	9,100
Al3961_R		13,030	ug/L	40.27	0.3091	7,278
As1891_A		510.9	ug/L	0.1249	0.02444	173.2
B_2089_A		516.4	ug/L	0.02396	0.004639	909.9
Ba4554_R		515.5	ug/L	1.263	0.2450	21,270
Be3130_R		519.3	ug/L	1.048	0.2018	24,630
Ca3158_R		12,880	ug/L	36.33	0.2821	6,317
Cd2265_A		516.1	ug/L	0.1401	0.02715	8,866
Co2286_A		522.7	ug/L	0.4592	0.08785	2,007
Cr2677_A		520.3	ug/L	0.9980	0.1918	6,123
Cu3273_A		517.5	ug/L	0.4138	0.07996	10,310
Fe2599_R		12,990	ug/L	25.18	0.1939	10,960
K_7664_R		12,870	ug/L	49.13	0.3816	5,531
Li6707_R		521.0	ug/L	0.9515	0.1826	4,730
Mg2025_A		13,040	ug/L	50.39	0.3863	4,244
Mn2576_R		523.2	ug/L	2.996	0.5727	1,625
Mo2020_A		519.3	ug/L	0.6483	0.1249	1,327
Na5895_R		13,040	ug/L	7.828	0.06004	24,240
Ni2316_A		522.9	ug/L	0.2832	0.05417	1,425

CCV

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:09:38AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		524.2	ug/L	0.3169	0.06046	678.1
Sb2068_A		503.2	ug/L	5.763	1.145	313.2
Se1960_A		507.1	ug/L	2.548	0.5024	133.8
Si2516_R		12,940	ug/L	89.03	0.6883	3,728
Sn1899_A		521.4	ug/L	0.3862	0.07407	315.8
Sr4215_R		515.2	ug/L	1.276	0.2477	23,850
Ti3349_A		518.0	ug/L	0.3290	0.06350	37,350
Tl1908_A	W	530.2	ug/L	3.015	0.5687	271.0
V_2924_A		512.5	ug/L	1.810	0.3532	6,825
Zn2062_A		518.2	ug/L	0.3472	0.06700	1,885
Y_3600_R		9,094.1	Cts/S	52.991	0.58269	9,094.1
Y_2243_A		7,612.5	Cts/S	12.501	0.16422	7,612.5
Y_3600_A		175,480	Cts/S	672.16	0.38304	175,480

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:13:45AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.1668	ug/L	0.2611	156.6	4.070
Al3961_R		-3.727	ug/L	6.777	181.8	-3.191
As1891_A		1.259	ug/L	0.6373	50.61	-2.696
B_2089_A		-0.05134	ug/L	0.1250	243.5	4.324
Ba4554_R		0.1157	ug/L	0.1676	144.8	21.52
Be3130_R		0.05642	ug/L	0.04064	72.03	1.746
Ca3158_R		-9.942	ug/L	2.576	25.91	-33.05
Cd2265_A		-0.007825	ug/L	0.02216	283.2	-2.676
Co2286_A		0.1226	ug/L	0.1844	150.3	1.046
Cr2677_A		-0.1067	ug/L	0.04536	42.50	-0.3146
Cu3273_A		-0.4317	ug/L	0.5036	116.7	5.937
Fe2599_R		2.126	ug/L	0.1643	7.728	2.195
K_7664_R		16.40	ug/L	8.876	54.11	66.48
Li6707_R		-0.8688	ug/L	1.417	163.1	-8.668
Mg2025_A		-0.2631	ug/L	2.226	846.3	-6.317
Mn2576_R		0.06314	ug/L	0.01518	24.05	-1.417
Mo2020_A		2.564	ug/L	0.5780	22.54	7.946
Na5895_R		-29.01	ug/L	12.55	43.27	299.7
Ni2316_A		0.03078	ug/L	0.07262	235.9	-1.330
Pb2203_A		-0.2405	ug/L	0.5099	212.0	-1.433
Sb2068_A	W	5.189	ug/L	0.7772	14.98	2.927
Se1960_A		1.432	ug/L	0.9493	66.31	2.665
Si2516_R		13.93	ug/L	6.772	48.60	17.69
Sn1899_A		0.1647	ug/L	0.1721	104.5	2.491
Sr4215_R		0.07213	ug/L	0.08678	120.3	-29.61
Ti3349_A		0.09517	ug/L	0.07835	82.33	9.674
Tl1908_A		0.1633	ug/L	1.103	675.2	-2.412
V_2924_A		0.2242	ug/L	0.08119	36.22	-5.022
Zn2062_A		0.07355	ug/L	0.1037	141.0	1.671
Y_3600_R		9,236.3	Cts/S	123.03	1.3320	9,236.3
Y_2243_A		7,693.9	Cts/S	15.509	0.20158	7,693.9
Y_3600_A		180,030	Cts/S	1,297.5	0.72070	180,030

LRS1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:18:09AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

LRS1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:18:09AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		2,129	ug/L	4.244	0.1993	35,380
Al3961_R		21.62	ug/L	5.617	25.99	113.5
As1891_A		21,150	ug/L	129.9	0.6140	6,755
B_2089_A		21,700	ug/L	130.5	0.6017	34,310
Ba4554_R		20,080	ug/L	70.25	0.3498	806,600
Be3130_R		20,030	ug/L	461.0	2.302	925,200
Ca3158_R		3.603	ug/L	3.042	84.42	-7.061
Cd2265_A		20,080	ug/L	91.23	0.4543	317,500
Co2286_A		21,300	ug/L	142.0	0.6667	75,470
Cr2677_A		20,590	ug/L	29.31	0.1424	229,400
Cu3273_A		21,180	ug/L	110.7	0.5226	398,700
Fe2599_R		0.3023	ug/L	0.7729	255.7	0.09294
K_7664_R		-3.708	ug/L	7.898	213.0	55.40
Li6707_R		20,830	ug/L	32.46	0.1559	184,100
Mg2025_A		120.8	ug/L	7.130	5.901	933.8
Mn2576_R		20,350	ug/L	44.33	0.2178	61,610
Mo2020_A		5,377	ug/L	32.10	0.5970	12,670
Na5895_R		244.8	ug/L	4.274	1.746	776.1
Ni2316_A		20,980	ug/L	139.7	0.6659	52,850
Pb2203_A		21,760	ug/L	127.2	0.5847	26,090
Sb2068_A		21,630	ug/L	158.7	0.7336	12,430
Se1960_A		21,290	ug/L	144.2	0.6775	5,092
Si2516_R		289.7	ug/L	38.92	13.43	75.16
Sn1899_A		20,980	ug/L	146.3	0.6974	11,650
Sr4215_R		20,450	ug/L	310.7	1.519	923,100
Ti3349_A		19,540	ug/L	28.42	0.1455	1,334,000
Tl1908_A		21,120	ug/L	125.0	0.5918	10,060
V_2924_A		21,090	ug/L	30.06	0.1425	268,000
Zn2062_A		20,740	ug/L	136.5	0.6585	69,570
Y_3600_R		8,857.4	Cts/S	7.8822	0.088990	8,857.4
Y_2243_A		7,027.7	Cts/S	32.671	0.46488	7,027.7
Y_3600_A		166,150	Cts/S	733.03	0.44118	166,150

LRS2

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:23:00AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.6994	ug/L	0.3295	47.11	-0.5041
Al3961_R		498,600	ug/L	1,136	0.2279	274,200
As1891_A		16.53	ug/L	0.7624	4.612	-13.35
B_2089_A		9.561	ug/L	1.603	16.76	19.34
Ba4554_R		0.9423	ug/L	0.01230	1.305	54.44
Be3130_R		1.219	ug/L	0.1580	12.96	55.80
Ca3158_R		461,900	ug/L	1,044	0.2260	224,300
Cd2265_A		1.287	ug/L	0.03261	2.533	476.2
Co2286_A		0.07506	ug/L	0.4001	533.1	5.399
Cr2677_A		0.05701	ug/L	0.05955	104.5	-15.39
Cu3273_A		-6.023	ug/L	0.4164	6.914	-7.903
Fe2599_R		228,900	ug/L	786.8	0.3438	190,400
K_7664_R		301,700	ug/L	1,259	0.4173	126,500
Li6707_R		28.78	ug/L	0.9338	3.244	257.1
Mg2025_A		181,800	ug/L	15.93	0.008763	54,240
Mn2576_R		0.2495	ug/L	1.237	495.7	3.655
Mo2020_A		9.356	ug/L	2.139	22.86	23.24
Na5895_R		197,000	ug/L	1,441	0.7315	356,200
Ni2316_A		1.612	ug/L	0.4677	29.01	-15.59

LRS2

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:23:00AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		7.194	ug/L	0.5513	7.663	-38.84
Sb2068_A		-1.150	ug/L	0.5958	51.82	2.701
Se1960_A		14.54	ug/L	1.619	11.14	10.66
Si2516_R		48,380	ug/L	21.70	0.04486	13,700
Sn1899_A		8.240	ug/L	0.06205	0.7530	6.744
Sr4215_R		6.257	ug/L	0.08029	1.283	253.9
Ti3349_A		7.610	ug/L	0.2522	3.314	498.0
Tl1908_A		1.685	ug/L	1.749	103.8	-0.7413
V_2924_A		0.1895	ug/L	0.007998	4.221	8.687
Zn2062_A		4.844	ug/L	0.09664	1.995	17.52
Y_3600_R		8,965.5	Cts/S	61.701	0.68821	8,965.5
Y_2243_A		7,014.3	Cts/S	20.775	0.29618	7,014.3
Y_3600_A		158,590	Cts/S	786.17	0.49572	158,590

CCV

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:27:27AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		508.3	ug/L	2.779	0.5467	8,979
Al3961_R		12,780	ug/L	34.29	0.2682	7,240
As1891_A		510.3	ug/L	0.2429	0.04760	174.9
B_2089_A		511.8	ug/L	1.058	0.2067	912.0
Ba4554_R		508.1	ug/L	1.253	0.2465	21,260
Be3130_R		509.8	ug/L	0.5992	0.1175	24,520
Ca3158_R		12,750	ug/L	25.07	0.1967	6,339
Cd2265_A		504.9	ug/L	0.4070	0.08061	8,774
Co2286_A		512.3	ug/L	0.7550	0.1474	1,990
Cr2677_A		512.1	ug/L	1.226	0.2394	6,059
Cu3273_A		511.9	ug/L	1.005	0.1962	10,260
Fe2599_R		12,770	ug/L	25.42	0.1991	10,930
K_7664_R		13,050	ug/L	7.942	0.06088	5,683
Li6707_R		514.8	ug/L	1.831	0.3557	4,739
Mg2025_A		12,780	ug/L	35.12	0.2749	4,204
Mn2576_R		509.3	ug/L	7.803	1.532	1,604
Mo2020_A		511.5	ug/L	1.233	0.2412	1,323
Na5895_R		12,910	ug/L	30.74	0.2382	24,330
Ni2316_A		512.6	ug/L	0.2254	0.04398	1,413
Pb2203_A		512.6	ug/L	0.1723	0.03362	670.7
Sb2068_A		494.1	ug/L	4.434	0.8974	311.1
Se1960_A		505.0	ug/L	1.430	0.2832	134.8
Si2516_R		12,810	ug/L	45.97	0.3589	3,743
Sn1899_A		507.5	ug/L	0.3991	0.07864	311.0
Sr4215_R		508.1	ug/L	1.924	0.3788	23,850
Ti3349_A		514.9	ug/L	0.4651	0.09034	37,330
Tl1908_A		518.7	ug/L	1.513	0.2918	268.1
V_2924_A		508.6	ug/L	1.927	0.3789	6,812
Zn2062_A		507.7	ug/L	0.7721	0.1521	1,868
Y_3600_R		9,221.3	Cts/S	99.661	1.0808	9,221.3
Y_2243_A		7,700.6	Cts/S	8.6469	0.11229	7,700.6
Y_3600_A		176,460	Cts/S	99.307	0.056278	176,460

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:31:37AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:31:37AM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.1048	ug/L	0.01518	14.48	9.170
Al3961_R		-1.498	ug/L	5.413	361.3	-1.938
As1891_A		3.720	ug/L	1.182	31.77	-1.879
B_2089_A		3.380	ug/L	0.05759	1.704	10.55
Ba4554_R		0.1689	ug/L	0.04460	26.40	23.77
Be3130_R		0.3654	ug/L	0.05423	14.84	16.69
Ca3158_R		-7.918	ug/L	0.1721	2.173	-32.15
Cd2265_A		0.04917	ug/L	0.01871	38.05	-1.728
Co2286_A		0.07921	ug/L	0.0004280	0.5398	0.9012
Cr2677_A		-0.1368	ug/L	0.2961	216.5	-0.7103
Cu3273_A		0.08983	ug/L	0.02076	23.11	17.04
Fe2599_R		3.483	ug/L	0.9202	26.42	3.370
K_7664_R		180.1	ug/L	13.28	7.370	137.6
Li6707_R		3.947	ug/L	0.3283	8.318	35.94
Mg2025_A		0.2751	ug/L	1.380	501.7	-6.285
Mn2576_R		0.2565	ug/L	0.1513	58.97	-0.8096
Mo2020_A		3.969	ug/L	0.5140	12.95	11.86
Na5895_R		1.858	ug/L	5.185	279.1	358.4
Ni2316_A		0.2597	ug/L	0.2834	109.1	-0.7161
Pb2203_A		-0.1620	ug/L	0.1986	122.6	-1.364
Sb2068_A	W	5.343	ug/L	2.198	41.14	3.101
Se1960_A		2.912	ug/L	1.441	49.48	3.125
Si2516_R		12.71	ug/L	12.62	99.33	17.36
Sn1899_A		-0.4886	ug/L	0.3532	72.28	2.145
Sr4215_R		0.09841	ug/L	0.1681	170.8	-28.47
Ti3349_A		0.2638	ug/L	0.007449	2.824	22.67
Tl1908_A		0.6296	ug/L	0.3340	53.05	-2.221
V_2924_A		-0.01290	ug/L	0.01673	129.7	-8.686
Zn2062_A		0.1505	ug/L	0.0005480	0.3644	2.001
Y_3600_R		9,265.9	Cts/S	40.062	0.43236	9,265.9
Y_2243_A		7,880.2	Cts/S	16.869	0.21406	7,880.2
Y_3600_A		184,610	Cts/S	1,489.8	0.80702	184,610

LCSWQI28ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:36:01AM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		53.88	ug/L	0.1148	0.2131	957.2
Al3961_R		2,141	ug/L	13.33	0.6227	1,214
As1891_A		109.7	ug/L	0.4748	0.4330	35.25
B_2089_A		548.2	ug/L	0.9116	0.1663	951.7
Ba4554_R		2,111	ug/L	10.01	0.4740	88,440
Be3130_R		52.45	ug/L	0.2960	0.5644	2,507
Ca3158_R		2,601	ug/L	5.086	0.1955	1,273
Cd2265_A		270.0	ug/L	0.1640	0.06073	4,678
Co2286_A		547.9	ug/L	0.3104	0.05665	2,127
Cr2677_A		221.0	ug/L	0.9757	0.4416	2,617
Cu3273_A		272.7	ug/L	1.282	0.4701	5,461
Fe2599_R		1,053	ug/L	3.775	0.3585	902.6
K_7664_R		10,700	ug/L	60.83	0.5684	4,679
Li6707_R		530.6	ug/L	1.605	0.3026	4,892
Mg2025_A		5,606	ug/L	9.396	0.1676	1,855
Mn2576_R		523.9	ug/L	3.322	0.6340	1,652
Mo2020_A		94.03	ug/L	2.469	2.626	244.1
Na5895_R		7,962	ug/L	9.931	0.1247	15,170
Ni2316_A		553.6	ug/L	0.7320	0.1322	1,526

LCSWQI28ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:36:01AM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		110.7	ug/L	0.6550	0.5920	143.9
Sb2068_A		107.4	ug/L	0.3069	0.2858	65.36
Se1960_A		103.4	ug/L	0.4425	0.4277	29.63
Si2516_R		1,085	ug/L	7.848	0.7236	329.4
Sn1899_A		535.3	ug/L	1.351	0.2523	327.9
Sr4215_R		530.3	ug/L	2.820	0.5318	24,930
Ti3349_A		535.0	ug/L	1.919	0.3587	38,770
Tl1908_A	F	115.7	ug/L	0.4801	0.4148	57.50
V_2924_A		548.2	ug/L	4.084	0.7449	7,407
Zn2062_A		549.5	ug/L	0.7931	0.1443	2,023
Y_3600_R		9,235.7	Cts/S	14.953	0.16190	9,235.7
Y_2243_A		7,699.5	Cts/S	7.5259	0.097746	7,699.5
Y_3600_A		176,390	Cts/S	18.459	0.010465	176,390

PBWQI28ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:42:51AM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.008526	ug/L	0.04501	528.0	7.292
Al3961_R		-2.225	ug/L	8.006	359.8	-2.414
As1891_A	W	4.001	ug/L	1.579	39.46	-1.768
B_2089_A		1.188	ug/L	0.01546	1.301	6.533
Ba4554_R		-0.01202	ug/L	0.04602	382.8	16.25
Be3130_R		0.1867	ug/L	0.06996	37.47	8.103
Ca3158_R		-12.89	ug/L	0.8593	6.669	-34.82
Cd2265_A		-0.003646	ug/L	0.006256	171.6	-2.647
Co2286_A		0.2613	ug/L	0.1179	45.13	1.609
Cr2677_A		0.08021	ug/L	0.3706	462.0	1.948
Cu3273_A		-0.1427	ug/L	0.07463	52.30	12.02
Fe2599_R		3.322	ug/L	1.257	37.85	3.251
K_7664_R		28.98	ug/L	7.237	24.97	72.51
Li6707_R		0.7977	ug/L	0.7977	100.00	6.818
Mg2025_A		9.141	ug/L	0.4183	4.576	-3.293
Mn2576_R		0.1099	ug/L	0.3892	354.2	-1.276
Mo2020_A		1.959	ug/L	0.1381	7.049	6.497
Na5895_R		-55.46	ug/L	0.5318	0.9588	252.8
Ni2316_A		0.2501	ug/L	0.1530	61.19	-0.7394
Pb2203_A		-0.1931	ug/L	0.2336	121.0	-1.392
Sb2068_A		-0.6979	ug/L	0.4058	58.15	-0.7651
Se1960_A		-0.8764	ug/L	0.5649	64.46	2.098
Si2516_R		15.27	ug/L	7.062	46.26	18.22
Sn1899_A		0.2790	ug/L	0.007758	2.781	2.605
Sr4215_R		0.05157	ug/L	0.05793	112.3	-30.85
Ti3349_A		-0.02291	ug/L	0.04769	208.1	0.9485
Tl1908_A		1.852	ug/L	0.04608	2.487	-1.556
V_2924_A		0.3237	ug/L	0.02383	7.362	-3.617
Zn2062_A		-0.1363	ug/L	0.05887	43.18	0.9137
Y_3600_R		9,316.0	Cts/S	64.272	0.68991	9,316.0
Y_2243_A		7,828.1	Cts/S	31.584	0.40347	7,828.1
Y_3600_A		182,150	Cts/S	1,111.6	0.61029	182,150

LCSWQI25ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:47:13AM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

LCSWQI25ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:47:13AM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		53.04	ug/L	0.2999	0.5654	952.1
Al3961_R		2,098	ug/L	35.77	1.704	1,209
As1891_A		106.8	ug/L	0.04220	0.03950	34.58
B_2089_A		540.9	ug/L	0.2780	0.05140	948.1
Ba4554_R		2,058	ug/L	11.48	0.5579	87,640
Be3130_R		51.82	ug/L	0.6019	1.162	2,519
Ca3158_R		2,557	ug/L	5.342	0.2090	1,272
Cd2265_A		264.8	ug/L	0.1489	0.05622	4,631
Co2286_A		536.3	ug/L	0.2279	0.04250	2,102
Cr2677_A		214.0	ug/L	1.013	0.4733	2,561
Cu3273_A		266.4	ug/L	2.044	0.7672	5,390
Fe2599_R		1,040	ug/L	13.25	1.274	906.5
K_7664_R		10,400	ug/L	39.98	0.3843	4,627
Li6707_R		523.0	ug/L	2.767	0.5291	4,903
Mg2025_A		5,543	ug/L	2.933	0.05293	1,851
Mn2576_R		520.0	ug/L	4.375	0.8413	1,667
Mo2020_A		91.76	ug/L	3.125	3.406	240.5
Na5895_R		7,852	ug/L	43.47	0.5536	15,220
Ni2316_A		541.3	ug/L	0.9549	0.1764	1,507
Pb2203_A		110.0	ug/L	0.05671	0.05154	144.5
Sb2068_A		105.6	ug/L	0.5909	0.5598	64.83
Se1960_A		100.7	ug/L	2.073	2.058	29.19
Si2516_R		1,042	ug/L	10.46	1.004	322.2
Sn1899_A		526.6	ug/L	1.716	0.3259	325.6
Sr4215_R		516.6	ug/L	2.531	0.4899	24,690
Ti3349_A		525.1	ug/L	2.165	0.4123	38,450
Tl1908_A		115.1	ug/L	0.4012	0.3486	57.72
V_2924_A		525.0	ug/L	3.004	0.5721	7,165
Zn2062_A		532.8	ug/L	0.1602	0.03007	1,980
Y_3600_R		9,390.4	Cts/S	16.743	0.17830	9,390.4
Y_2243_A		7,772.8	Cts/S	4.2432	0.054591	7,772.8
Y_3600_A		178,210	Cts/S	695.53	0.39028	178,210

PBWQI25ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:51:28AM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.1137	ug/L	0.2153	189.3	4.970
Al3961_R		4.601	ug/L	7.953	172.9	1.487
As1891_A	W	4.126	ug/L	0.1618	3.922	-1.697
B_2089_A		0.6324	ug/L	0.2089	33.03	5.558
Ba4554_R		0.08337	ug/L	0.2412	289.3	19.96
Be3130_R		0.1199	ug/L	0.01607	13.40	4.774
Ca3158_R		-14.36	ug/L	0.9273	6.457	-34.93
Cd2265_A		0.05322	ug/L	0.01480	27.82	-1.619
Co2286_A		0.2704	ug/L	0.09973	36.88	1.620
Cr2677_A		-0.1533	ug/L	0.03787	24.71	-0.8707
Cu3273_A		0.04786	ug/L	0.2595	542.2	15.61
Fe2599_R		2.922	ug/L	0.1316	4.503	2.850
K_7664_R		22.02	ug/L	9.452	42.93	68.23
Li6707_R		1.047	ug/L	0.4066	38.84	9.008
Mg2025_A		7.710	ug/L	0.4599	5.964	-3.709
Mn2576_R		-0.5768	ug/L	0.2337	40.52	-3.401
Mo2020_A		3.466	ug/L	0.4361	12.58	10.30
Na5895_R		-67.94	ug/L	5.485	8.072	225.2
Ni2316_A		0.02342	ug/L	0.006333	27.04	-1.352

PBWQI25ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:51:28AM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		-0.3251	ug/L	0.4075	125.4	-1.547
Sb2068_A		-0.5092	ug/L	0.6399	125.7	-0.6403
Se1960_A		1.170	ug/L	1.275	109.0	2.602
Si2516_R		7.540	ug/L	5.714	75.79	15.66
Sn1899_A		0.8470	ug/L	0.9676	114.2	2.912
Sr4215_R		0.02306	ug/L	0.1634	708.6	-31.66
Ti3349_A		0.1563	ug/L	0.08393	53.69	14.00
Tl1908_A		1.519	ug/L	0.3250	21.40	-1.705
V_2924_A		0.2488	ug/L	0.3526	141.7	-4.717
Zn2062_A	W	14.38	ug/L	0.1424	0.9900	54.38
Y_3600_R		9,147.1	Cts/S	68.102	0.74452	9,147.1
Y_2243_A		7,706.6	Cts/S	53.499	0.69419	7,706.6
Y_3600_A		178,150	Cts/S	1,263.7	0.70936	178,150

LCSWQI28ICW2

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 11:55:53AM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		51.27	ug/L	0.4824	0.9409	910.9
Al3961_R		2,130	ug/L	3.701	0.1737	1,192
As1891_A		102.6	ug/L	0.2447	0.2385	32.79
B_2089_A		502.5	ug/L	2.599	0.5171	874.0
Ba4554_R		2,116	ug/L	7.377	0.3486	87,510
Be3130_R		53.10	ug/L	0.06848	0.1290	2,507
Ca3158_R		2,557	ug/L	19.32	0.7557	1,235
Cd2265_A		256.1	ug/L	0.4143	0.1618	4,437
Co2286_A		530.4	ug/L	1.199	0.2261	2,060
Cr2677_A		213.6	ug/L	1.688	0.7903	2,528
Cu3273_A		265.9	ug/L	2.687	1.011	5,323
Fe2599_R		1,072	ug/L	3.416	0.3188	906.9
K_7664_R		10,380	ug/L	75.96	0.7317	4,482
Li6707_R		523.9	ug/L	1.214	0.2317	4,768
Mg2025_A		5,144	ug/L	25.27	0.4913	1,703
Mn2576_R		527.5	ug/L	0.5539	0.1050	1,642
Mo2020_A		104.2	ug/L	0.4089	0.3923	270.4
Na5895_R		7,883	ug/L	5.547	0.07037	14,830
Ni2316_A		532.7	ug/L	1.714	0.3217	1,469
Pb2203_A		104.4	ug/L	0.01714	0.01641	135.8
Sb2068_A		102.3	ug/L	1.127	1.101	62.27
Se1960_A		100.3	ug/L	1.218	1.215	28.81
Si2516_R		1,032	ug/L	11.98	1.161	309.9
Sn1899_A		516.5	ug/L	3.279	0.6348	316.5
Sr4215_R		516.9	ug/L	1.960	0.3792	23,990
Ti3349_A		516.4	ug/L	4.954	0.9593	37,410
Tl1908_A		105.5	ug/L	2.051	1.943	52.18
V_2924_A		528.9	ug/L	6.153	1.163	7,141
Zn2062_A		522.2	ug/L	0.2105	0.04032	1,923
Y_3600_R		9,116.9	Cts/S	51.660	0.56663	9,116.9
Y_2243_A		7,701.5	Cts/S	37.712	0.48967	7,701.5
Y_3600_A		176,330	Cts/S	1,628.6	0.92359	176,330

PBWQI28ICW2

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:00:07PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

PBWQI28ICW2

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:00:07PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.09997	ug/L	0.1915	191.6	5.100
Al3961_R		-4.002	ug/L	4.594	114.8	-3.281
As1891_A		1.738	ug/L	2.326	133.8	-2.514
B_2089_A		1.775	ug/L	0.1443	8.129	7.369
Ba4554_R		0.1803	ug/L	0.04704	26.09	23.31
Be3130_R		0.07987	ug/L	0.03249	40.68	2.775
Ca3158_R		-1.213	ug/L	3.547	292.5	-27.66
Cd2265_A		-0.007893	ug/L	0.009653	122.3	-2.661
Co2286_A		-0.05780	ug/L	0.02026	35.05	0.3469
Cr2677_A		0.08671	ug/L	0.1790	206.5	1.959
Cu3273_A		0.06751	ug/L	0.09506	140.8	15.68
Fe2599_R		2.854	ug/L	2.870	100.5	2.709
K_7664_R		22.19	ug/L	17.91	80.71	66.47
Li6707_R		1.354	ug/L	1.201	88.68	11.54
Mg2025_A		0.4833	ug/L	0.7557	156.4	-6.054
Mn2576_R		0.3157	ug/L	0.3206	101.6	-0.5931
Mo2020_A		1.581	ug/L	0.09410	5.952	5.381
Na5895_R		-45.87	ug/L	3.345	7.292	259.0
Ni2316_A		0.1850	ug/L	0.2763	149.4	-0.8993
Pb2203_A		-0.3664	ug/L	1.036	282.7	-1.584
Sb2068_A		0.1721	ug/L	0.6692	388.9	-0.2126
Se1960_A		1.071	ug/L	1.721	160.7	2.556
Si2516_R		5.004	ug/L	5.876	117.4	14.53
Sn1899_A		1.144	ug/L	0.2287	19.99	3.070
Sr4215_R		0.06579	ug/L	0.07438	113.0	-28.85
Ti3349_A		0.2056	ug/L	0.06759	32.88	17.30
Tl1908_A		-0.7023	ug/L	0.03470	4.941	-2.848
V_2924_A		0.08448	ug/L	0.02314	27.39	-6.635
Zn2062_A		0.004933	ug/L	0.05683	1,152	1.410
Y_3600_R		8,908.6	Cts/S	77.275	0.86742	8,908.6
Y_2243_A		7,652.6	Cts/S	29.805	0.38947	7,652.6
Y_3600_A		174,690	Cts/S	37.642	0.021548	174,690

LC2WQI27ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:04:29PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		52.68	ug/L	0.1186	0.2251	927.8
Al3961_R		2,155	ug/L	19.47	0.9037	1,201
As1891_A		106.0	ug/L	0.7388	0.6972	33.86
B_2089_A		531.3	ug/L	1.061	0.1998	920.7
Ba4554_R		2,147	ug/L	12.58	0.5856	88,400
Be3130_R		54.15	ug/L	0.3163	0.5841	2,544
Ca3158_R		2,684	ug/L	29.27	1.091	1,292
Cd2265_A		269.2	ug/L	1.322	0.4912	4,649
Co2286_A		545.3	ug/L	2.979	0.5464	2,111
Cr2677_A		221.9	ug/L	2.082	0.9384	2,605
Cu3273_A		273.8	ug/L	1.949	0.7119	5,434
Fe2599_R		1,081	ug/L	4.337	0.4012	910.9
K_7664_R		10,830	ug/L	118.3	1.092	4,654
Li6707_R		544.5	ug/L	0.3722	0.06836	4,934
Mg2025_A		5,376	ug/L	4.333	0.08061	1,774
Mn2576_R		535.7	ug/L	4.129	0.7709	1,660
Mo2020_A		109.0	ug/L	0.8262	0.7580	281.9
Na5895_R		8,140	ug/L	0.1055	0.001296	15,230
Ni2316_A		548.3	ug/L	2.400	0.4378	1,507

LC2WQI27ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:04:29PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		109.6	ug/L	0.6281	0.5730	142.1
Sb2068_A		106.4	ug/L	0.6443	0.6052	64.50
Se1960_A		103.5	ug/L	1.077	1.040	29.56
Si2516_R		1,079	ug/L	23.88	2.214	322.0
Sn1899_A		547.3	ug/L	1.636	0.2989	334.1
Sr4215_R		542.8	ug/L	4.320	0.7958	25,080
Ti3349_A		547.5	ug/L	4.699	0.8583	39,330
Tl1908_A		110.7	ug/L	2.180	1.968	54.69
V_2924_A		551.0	ug/L	3.826	0.6944	7,378
Zn2062_A		540.8	ug/L	4.204	0.7773	1,985
Y_3600_R		9,076.6	Cts/S	22.615	0.24916	9,076.6
Y_2243_A		7,676.0	Cts/S	6.9775	0.090900	7,676.0
Y_3600_A		174,860	Cts/S	646.80	0.36991	174,860

LCSWQI27ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:08:43PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		52.92	ug/L	1.026	1.938	924.4
Al3961_R		2,153	ug/L	35.83	1.664	1,181
As1891_A		105.4	ug/L	1.069	1.014	33.37
B_2089_A		532.3	ug/L	0.7418	0.1394	914.5
Ba4554_R		2,147	ug/L	0.3565	0.01661	87,060
Be3130_R		53.96	ug/L	0.02637	0.04888	2,497
Ca3158_R		2,684	ug/L	1.134	0.04225	1,273
Cd2265_A		270.6	ug/L	0.2599	0.09605	4,633
Co2286_A		547.8	ug/L	0.01861	0.003397	2,102
Cr2677_A		222.2	ug/L	1.146	0.5159	2,588
Cu3273_A		273.7	ug/L	2.979	1.089	5,388
Fe2599_R		1,090	ug/L	2.266	0.2079	904.8
K_7664_R		10,880	ug/L	68.82	0.6327	4,603
Li6707_R		541.2	ug/L	0.7708	0.1424	4,830
Mg2025_A		5,374	ug/L	2.332	0.04339	1,758
Mn2576_R		537.2	ug/L	3.370	0.6273	1,640
Mo2020_A		109.5	ug/L	0.1984	0.1812	280.6
Na5895_R		8,136	ug/L	5.362	0.06591	15,000
Ni2316_A		550.4	ug/L	0.1875	0.03407	1,500
Pb2203_A		111.0	ug/L	0.5728	0.5161	142.7
Sb2068_A		105.3	ug/L	0.4549	0.4319	63.23
Se1960_A		103.6	ug/L	2.064	1.992	29.34
Si2516_R		1,106	ug/L	11.12	1.006	324.8
Sn1899_A		551.5	ug/L	0.8321	0.1509	333.8
Sr4215_R		539.9	ug/L	0.7407	0.1372	24,570
Ti3349_A		545.5	ug/L	3.888	0.7127	38,870
Tl1908_A		111.3	ug/L	0.6505	0.5843	54.53
V_2924_A		550.3	ug/L	2.003	0.3640	7,308
Zn2062_A		544.3	ug/L	1.637	0.3006	1,980
Y_3600_R		8,940.2	Cts/S	82.937	0.92768	8,940.2
Y_2243_A		7,609.9	Cts/S	6.7795	0.089088	7,609.9
Y_3600_A		173,450	Cts/S	775.12	0.44689	173,450

PBWQI27ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:12:59PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

PBWQI27ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:12:59PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.1664	ug/L	0.03371	20.25	4.041
Al3961_R		-4.014	ug/L	8.041	200.3	-3.325
As1891_A		0.6609	ug/L	0.2063	31.22	-2.944
B_2089_A		1.572	ug/L	0.05141	3.271	7.118
Ba4554_R		0.1279	ug/L	0.1280	100.1	21.78
Be3130_R		0.1023	ug/L	0.02311	22.59	3.964
Ca3158_R		1.321	ug/L	0.1043	7.894	-27.26
Cd2265_A		-0.01446	ug/L	0.04800	331.9	-2.809
Co2286_A		0.1122	ug/L	0.04943	44.07	1.019
Cr2677_A		-0.1152	ug/L	0.03680	31.94	-0.4187
Cu3273_A		0.2297	ug/L	0.2047	89.13	19.40
Fe2599_R		10.05	ug/L	2.319	23.08	8.902
K_7664_R		30.08	ug/L	8.575	28.51	71.88
Li6707_R		1.723	ug/L	0.3253	18.88	15.18
Mg2025_A		-0.4726	ug/L	1.154	244.1	-6.475
Mn2576_R		-0.1197	ug/L	0.6779	566.3	-2.011
Mo2020_A		1.038	ug/L	0.1750	16.86	4.058
Na5895_R		-44.30	ug/L	2.661	6.007	269.7
Ni2316_A		0.3220	ug/L	0.1057	32.84	-0.5354
Pb2203_A		0.09070	ug/L	0.8326	918.0	-1.006
Sb2068_A		-0.3857	ug/L	0.6236	161.7	-0.6099
Se1960_A		1.158	ug/L	0.1843	15.92	2.627
Si2516_R		10.67	ug/L	5.899	55.29	16.60
Sn1899_A		6.921	ug/L	0.2419	3.496	6.679
Sr4215_R		0.01443	ug/L	0.0006260	4.337	-32.16
Ti3349_A		0.08169	ug/L	0.03772	46.18	8.624
Tl1908_A		-0.3567	ug/L	0.1584	44.41	-2.716
V_2924_A		0.003899	ug/L	0.05237	1,343	-7.842
Zn2062_A		0.06926	ug/L	0.07836	113.1	1.676
Y_3600_R		9,181.5	Cts/S	249.43	2.7166	9,181.5
Y_2243_A		7,791.4	Cts/S	3.3501	0.042998	7,791.4
Y_3600_A		179,210	Cts/S	375.99	0.20980	179,210

LC2WQI25ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:17:25PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		54.42	ug/L	0.08635	0.1587	970.3
Al3961_R		2,178	ug/L	16.70	0.7666	1,224
As1891_A		106.3	ug/L	0.5169	0.4863	34.10
B_2089_A		546.3	ug/L	1.296	0.2372	949.5
Ba4554_R		2,129	ug/L	21.48	1.009	88,410
Be3130_R		53.37	ug/L	0.8272	1.550	2,530
Ca3158_R		2,614	ug/L	52.49	2.008	1,269
Cd2265_A		268.8	ug/L	0.7231	0.2691	4,661
Co2286_A		545.1	ug/L	1.415	0.2596	2,119
Cr2677_A		217.5	ug/L	0.5021	0.2308	2,586
Cu3273_A		270.0	ug/L	0.02538	0.009401	5,427
Fe2599_R		1,081	ug/L	10.79	0.9982	919.0
K_7664_R		10,660	ug/L	29.01	0.2722	4,622
Li6707_R		540.9	ug/L	7.373	1.363	4,945
Mg2025_A		5,586	ug/L	11.71	0.2096	1,850
Mn2576_R		535.5	ug/L	5.906	1.103	1,675
Mo2020_A		92.10	ug/L	2.899	3.148	239.3
Na5895_R		8,077	ug/L	70.58	0.8738	15,250
Ni2316_A		549.9	ug/L	1.365	0.2483	1,518

LC2WQI25ICW1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:17:25PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		110.8	ug/L	0.4853	0.4382	144.2
Sb2068_A		107.5	ug/L	0.9246	0.8601	65.48
Se1960_A		100.1	ug/L	2.787	2.785	28.78
Si2516_R		1,060	ug/L	30.12	2.841	319.4
Sn1899_A		534.6	ug/L	2.965	0.5545	327.8
Sr4215_R		533.7	ug/L	6.491	1.216	24,880
Ti3349_A		530.3	ug/L	0.3111	0.05868	38,570
Tl1908_A	F	115.6	ug/L	0.9999	0.8653	57.46
V_2924_A		536.0	ug/L	0.9252	0.1726	7,267
Zn2062_A		544.0	ug/L	1.269	0.2334	2,004
Y_3600_R		9,158.7	Cts/S	70.311	0.76770	9,158.7
Y_2243_A		7,707.9	Cts/S	56.193	0.72903	7,707.9
Y_3600_A		177,040	Cts/S	499.13	0.28193	177,040

CCV

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:21:41PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		516.0	ug/L	2.564	0.4970	8,980
Al3961_R		12,900	ug/L	57.62	0.4466	7,251
As1891_A		510.2	ug/L	1.523	0.2985	172.7
B_2089_A		513.6	ug/L	0.5177	0.1008	904.1
Ba4554_R		512.2	ug/L	1.239	0.2418	21,270
Be3130_R		511.3	ug/L	4.362	0.8531	24,400
Ca3158_R		12,650	ug/L	118.2	0.9340	6,243
Cd2265_A		513.9	ug/L	2.124	0.4134	8,818
Co2286_A		519.6	ug/L	2.295	0.4417	1,993
Cr2677_A		518.8	ug/L	1.320	0.2544	6,049
Cu3273_A		515.2	ug/L	2.539	0.4928	10,170
Fe2599_R		12,820	ug/L	77.47	0.6043	10,890
K_7664_R		12,690	ug/L	79.18	0.6238	5,489
Li6707_R		516.4	ug/L	1.281	0.2481	4,717
Mg2025_A		12,940	ug/L	36.33	0.2807	4,207
Mn2576_R		513.7	ug/L	2.966	0.5773	1,605
Mo2020_A		518.3	ug/L	1.771	0.3417	1,324
Na5895_R		12,880	ug/L	13.34	0.1036	24,100
Ni2316_A		521.4	ug/L	1.493	0.2863	1,419
Pb2203_A		522.1	ug/L	3.139	0.6013	674.7
Sb2068_A		499.6	ug/L	4.932	0.9872	310.6
Se1960_A		509.5	ug/L	1.733	0.3402	134.3
Si2516_R		12,740	ug/L	161.5	1.268	3,694
Sn1899_A		521.7	ug/L	0.7757	0.1487	315.6
Sr4215_R		511.6	ug/L	1.457	0.2849	23,830
Ti3349_A		516.9	ug/L	1.867	0.3613	36,930
Tl1908_A		525.9	ug/L	1.417	0.2695	268.4
V_2924_A		510.8	ug/L	1.337	0.2618	6,741
Zn2062_A		516.4	ug/L	2.322	0.4497	1,876
Y_3600_R		9,151.1	Cts/S	78.699	0.86000	9,151.1
Y_2243_A		7,604.7	Cts/S	4.7982	0.063095	7,604.7
Y_3600_A		173,870	Cts/S	285.90	0.16443	173,870

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:25:50PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:25:50PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.3105	ug/L	0.08961	28.86	1.454
Al3961_R		-9.211	ug/L	5.936	64.44	-6.128
As1891_A		1.592	ug/L	1.181	74.19	-2.566
B_2089_A		0.8845	ug/L	0.01752	1.981	5.929
Ba4554_R		0.1971	ug/L	0.01302	6.605	24.19
Be3130_R		0.1311	ug/L	0.06140	46.82	5.213
Ca3158_R		-4.484	ug/L	7.470	166.6	-29.48
Cd2265_A		0.06490	ug/L	0.02279	35.12	-1.404
Co2286_A		0.1334	ug/L	0.1419	106.4	1.085
Cr2677_A		0.3236	ug/L	0.09296	28.73	4.804
Cu3273_A		-0.2223	ug/L	0.08818	39.67	10.10
Fe2599_R		4.769	ug/L	2.012	42.19	4.331
K_7664_R		-23.55	ug/L	0.7982	3.389	47.84
Li6707_R		1.546	ug/L	1.140	73.76	13.34
Mg2025_A		-1.492	ug/L	1.835	123.0	-6.685
Mn2576_R		0.4608	ug/L	0.04351	9.442	-0.1562
Mo2020_A		3.030	ug/L	0.7175	23.68	9.111
Na5895_R		-71.98	ug/L	0.3710	0.5154	213.8
Ni2316_A		0.1031	ug/L	0.3590	348.3	-1.124
Pb2203_A		-0.2922	ug/L	0.3481	119.2	-1.492
Sb2068_A	W	5.609	ug/L	0.2223	3.964	3.174
Se1960_A		3.572	ug/L	1.185	33.17	3.208
Si2516_R		9.399	ug/L	0.1108	1.179	15.90
Sn1899_A		0.9311	ug/L	0.1083	11.63	2.942
Sr4215_R		0.08948	ug/L	0.08465	94.60	-28.01
Ti3349_A		0.3081	ug/L	0.1054	34.21	25.10
Tl1908_A		0.4857	ug/L	0.3856	79.38	-2.232
V_2924_A		0.1139	ug/L	0.05474	48.04	-6.530
Zn2062_A		0.1683	ug/L	0.06201	36.85	2.008
Y_3600_R		8,980.9	Cts/S	54.206	0.60357	8,980.9
Y_2243_A		7,657.3	Cts/S	29.127	0.38038	7,657.3
Y_3600_A		177,560	Cts/S	2,106.6	1.1865	177,560

SQ5008-001

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:30:15PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.8510	ug/L	0.1162	13.66	21.07
Al3961_R		3,031	ug/L	7.811	0.2577	1,727
As1891_A		2.503	ug/L	0.5511	22.02	-2.270
B_2089_A		87.12	ug/L	0.3398	0.3900	146.4
Ba4554_R		61.17	ug/L	0.2591	0.4235	2,593
Be3130_R		0.1860	ug/L	0.05448	29.29	6.059
Ca3158_R		4,813	ug/L	30.02	0.6238	2,393
Cd2265_A		5.015	ug/L	0.03478	0.6934	84.08
Co2286_A		2.124	ug/L	0.1087	5.118	8.734
Cr2677_A		9.335	ug/L	0.02384	0.2553	106.9
Cu3273_A		82.98	ug/L	2.545	3.068	1,606
Fe2599_R		2,126	ug/L	5.675	0.2670	1,832
K_7664_R		6,851	ug/L	14.98	0.2186	3,034
Li6707_R		35.12	ug/L	0.2249	0.6405	325.1
Mg2025_A		1,031	ug/L	2.616	0.2538	313.0
Mn2576_R		54.53	ug/L	0.5910	1.084	171.5
Mo2020_A		17.54	ug/L	0.5333	3.041	44.05
Na5895_R	W	142,700	ug/L	354.7	0.2486	267,400
Ni2316_A		32.28	ug/L	0.3383	1.048	82.64

SQ5008-001

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:30:15PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		11.17	ug/L	0.0003220	0.002882	12.55
Sb2068_A		42.63	ug/L	0.4623	1.084	24.96
Se1960_A		0.2560	ug/L	0.5976	233.4	2.279
Si2516_R		3,195	ug/L	7.062	0.2210	950.8
Sn1899_A		9.483	ug/L	0.3515	3.707	7.705
Sr4215_R		24.48	ug/L	0.1296	0.5293	1,126
Ti3349_A		48.26	ug/L	0.7553	1.565	3,356
Tl1908_A		2.105	ug/L	0.4968	23.60	-1.417
V_2924_A		3.687	ug/L	0.02094	0.5678	38.35
Zn2062_A		494.6	ug/L	0.1292	0.02613	1,720
Y_3600_R		9,288.7	Cts/S	27.703	0.29824	9,288.7
Y_2243_A		7,272.7	Cts/S	22.326	0.30698	7,272.7
Y_3600_A		169,210	Cts/S	4,279.0	2.5289	169,210

PBT1813A

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:34:28PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.2527	ug/L	0.2085	82.48	2.246
Al3961_R		-0.8717	ug/L	6.202	711.5	-1.543
As1891_A		-1.014	ug/L	1.490	147.0	-3.266
B_2089_A		4.800	ug/L	0.1412	2.941	11.79
Ba4554_R		11.49	ug/L	0.04569	0.3978	478.5
Be3130_R		0.2341	ug/L	0.006410	2.739	9.922
Ca3158_R		75.69	ug/L	4.275	5.648	9.408
Cd2265_A		-0.02518	ug/L	0.001972	7.831	-2.768
Co2286_A		-0.1852	ug/L	0.1600	86.39	-0.1354
Cr2677_A		0.1932	ug/L	0.1236	63.98	2.969
Cu3273_A		3.065	ug/L	0.02879	0.9394	69.28
Fe2599_R		11.35	ug/L	0.3327	2.931	9.714
K_7664_R		218.9	ug/L	1.285	0.5869	147.9
Li6707_R		3.912	ug/L	0.2289	5.850	34.13
Mg2025_A		4.996	ug/L	0.5550	11.11	-4.322
Mn2576_R		2.516	ug/L	0.8134	32.33	6.081
Mo2020_A		1.475	ug/L	0.1918	13.00	4.805
Na5895_R	F	330,800	ug/L	3,482	1.053	592,000
Ni2316_A		1.315	ug/L	0.1360	10.34	2.067
Pb2203_A		-0.2942	ug/L	0.6709	228.0	-1.403
Sb2068_A		1.782	ug/L	0.4729	26.55	0.7430
Se1960_A		1.474	ug/L	0.4661	31.63	2.504
Si2516_R		11.29	ug/L	5.831	51.67	16.25
Sn1899_A		1.176	ug/L	0.2517	21.41	2.905
Sr4215_R		0.8870	ug/L	0.06387	7.200	8.393
Ti3349_A		0.1129	ug/L	0.07013	62.10	9.836
Tl1908_A		-1.100	ug/L	0.8462	76.96	-2.876
V_2924_A		-0.1305	ug/L	0.03784	29.00	-8.790
Zn2062_A		10.78	ug/L	0.02187	0.2030	38.38
Y_3600_R		8,879.4	Cts/S	6.7081	0.075546	8,879.4
Y_2243_A		7,198.5	Cts/S	10.618	0.14750	7,198.5
Y_3600_A		161,260	Cts/S	190.41	0.11807	161,260

PBT1814A

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:38:52PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

PBT1814A

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:38:52PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.003293	ug/L	0.1582	4,803	7.149
Al3961_R		6.323	ug/L	5.088	80.46	2.408
As1891_A		-1.835	ug/L	0.4190	22.83	-3.832
B_2089_A		4.655	ug/L	0.08010	1.721	12.48
Ba4554_R		0.1727	ug/L	0.07277	42.13	23.63
Be3130_R		0.06940	ug/L	0.04455	64.19	2.369
Ca3158_R		20.66	ug/L	3.244	15.71	-17.60
Cd2265_A		-0.02074	ug/L	0.02128	102.6	-2.920
Co2286_A		0.08917	ug/L	0.1051	117.8	0.9299
Cr2677_A		0.1483	ug/L	0.04931	33.24	2.779
Cu3273_A		0.2499	ug/L	0.1944	77.79	20.05
Fe2599_R		11.32	ug/L	0.01105	0.09763	9.982
K_7664_R		54.17	ug/L	12.50	23.08	82.04
Li6707_R		2.544	ug/L	1.090	42.86	22.63
Mg2025_A		9.492	ug/L	0.7693	8.105	-3.181
Mn2576_R		0.5975	ug/L	0.2755	46.10	0.2640
Mo2020_A		0.6603	ug/L	0.1133	17.17	3.075
Na5895_R		494.6	ug/L	10.66	2.156	1,263
Ni2316_A		0.1308	ug/L	0.007180	5.487	-1.071
Pb2203_A		0.05783	ug/L	0.06346	109.7	-1.051
Sb2068_A		0.4731	ug/L	0.5186	109.6	-0.02010
Se1960_A		0.7574	ug/L	2.328	307.3	2.523
Si2516_R		2.740	ug/L	2.087	76.16	14.28
Sn1899_A		0.6908	ug/L	0.3460	50.09	2.850
Sr4215_R		0.2821	ug/L	0.07339	26.02	-19.59
Ti3349_A		0.1881	ug/L	0.01975	10.50	16.66
Tl1908_A		-1.001	ug/L	1.006	100.5	-3.063
V_2924_A		0.06467	ug/L	0.008750	13.53	-7.050
Zn2062_A		1.208	ug/L	0.1493	12.35	5.925
Y_3600_R		9,153.1	Cts/S	86.512	0.94516	9,153.1
Y_2243_A		7,801.7	Cts/S	27.480	0.35223	7,801.7
Y_3600_A		181,260	Cts/S	1,900.3	1.0484	181,260

RINSE1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:43:17PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.02786	ug/L	0.2775	996.0	7.737
Al3961_R		-6.458	ug/L	3.488	54.02	-4.831
As1891_A		0.3767	ug/L	0.6547	173.8	-3.062
B_2089_A		0.4350	ug/L	0.1637	37.64	5.141
Ba4554_R		0.1167	ug/L	0.1354	116.0	21.65
Be3130_R		0.1395	ug/L	0.05358	38.42	5.819
Ca3158_R		-4.430	ug/L	5.401	121.9	-30.51
Cd2265_A		-0.02529	ug/L	0.05162	204.1	-3.029
Co2286_A		0.02757	ug/L	0.01626	58.98	0.6902
Cr2677_A		0.08776	ug/L	0.1808	206.1	2.058
Cu3273_A		-0.1641	ug/L	0.01665	10.15	11.67
Fe2599_R		2.430	ug/L	0.1975	8.129	2.473
K_7664_R		-22.78	ug/L	14.95	65.63	49.92
Li6707_R		1.224	ug/L	0.6030	49.26	10.81
Mg2025_A		-0.3189	ug/L	0.6341	198.8	-6.467
Mn2576_R		-0.6224	ug/L	0.08299	13.33	-3.608
Mo2020_A		0.5389	ug/L	0.08120	15.07	2.768
Na5895_R		-0.7412	ug/L	7.297	984.4	355.0
Ni2316_A		0.1598	ug/L	0.05081	31.80	-0.9940

RINSE1

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:43:17PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		-0.6838	ug/L	0.2731	39.93	-2.045
Sb2068_A		0.05480	ug/L	0.1663	303.6	-0.2788
Se1960_A		0.1252	ug/L	1.135	906.9	2.365
Si2516_R		-15.50	ug/L	0.3506	2.262	9.152
Sn1899_A		-0.5990	ug/L	0.07493	12.51	2.064
Sr4215_R		0.08837	ug/L	0.001331	1.506	-29.08
Ti3349_A		-0.01680	ug/L	0.02187	130.2	1.425
Tl1908_A		-0.008992	ug/L	0.07559	840.6	-2.546
V_2924_A		0.2137	ug/L	0.1108	51.86	-5.026
Zn2062_A		-0.01694	ug/L	0.07121	420.5	1.363
Y_3600_R		9,303.9	Cts/S	63.180	0.67907	9,303.9
Y_2243_A		7,834.8	Cts/S	65.388	0.83458	7,834.8
Y_3600_A		183,750	Cts/S	1,597.5	0.86935	183,750

SQ5041-001

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:47:42PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.2649	ug/L	0.09653	36.45	9.009
Al3961_R		1,368	ug/L	1.470	0.1075	695.8
As1891_A		-1.664	ug/L	1.545	92.85	-3.104
B_2089_A	W	2,148	ug/L	1.270	0.05910	2,980
Ba4554_R		38.29	ug/L	0.3428	0.8954	1,418
Be3130_R		0.2523	ug/L	0.09401	37.26	8.449
Ca3158_R	W	125,100	ug/L	370.9	0.2965	54,740
Cd2265_A		0.3844	ug/L	0.03221	8.378	6.893
Co2286_A		2.548	ug/L	0.07681	3.015	8.697
Cr2677_A		9.061	ug/L	0.2023	2.233	88.55
Cu3273_A		8.242	ug/L	0.2712	3.290	140.4
Fe2599_R		2,005	ug/L	7.158	0.3570	1,504
K_7664_R	W	55,820	ug/L	252.1	0.4516	21,150
Li6707_R		41.72	ug/L	2.477	5.937	336.2
Mg2025_A	W	158,400	ug/L	298.5	0.1884	41,800
Mn2576_R	W	1,053	ug/L	0.7998	0.07593	2,909
Mo2020_A		9.577	ug/L	0.2511	2.621	20.96
Na5895_R	F	2,120,000	ug/L	3,553	0.1676	3,453,000
Ni2316_A		9.480	ug/L	0.06581	0.6942	19.80
Pb2203_A		0.3894	ug/L	0.6119	157.2	-0.5550
Sb2068_A		1.169	ug/L	0.6236	53.35	0.4175
Se1960_A		3.879	ug/L	0.2649	6.831	2.851
Si2516_R		14,150	ug/L	75.88	0.5364	3,623
Sn1899_A		2.424	ug/L	0.5770	23.81	3.116
Sr4215_R	W	1,392	ug/L	6.114	0.4393	57,310
Ti3349_A		38.41	ug/L	1.205	3.138	2,163
Tl1908_A		-0.2152	ug/L	0.7894	366.9	-3.254
V_2924_A		16.64	ug/L	0.1824	1.097	164.5
Zn2062_A		51.55	ug/L	0.2416	0.4686	153.9
Y_3600_R		8,083.3	Cts/S	34.010	0.42075	8,083.3
Y_2243_A		6,204.2	Cts/S	21.146	0.34084	6,204.2
Y_3600_A		136,990	Cts/S	621.67	0.45382	136,990

SQ5080-002

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:52:02PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

SQ5080-002

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:52:02PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.2666	ug/L	0.3551	133.2	10.37
Al3961_R		-42.46	ug/L	1.411	3.324	44.99
As1891_A		-2.705	ug/L	1.063	39.29	-3.653
B_2089_A		258.8	ug/L	1.524	0.5889	403.4
Ba4554_R		166.6	ug/L	0.1462	0.08772	6,538
Be3130_R		0.09177	ug/L	0.03096	33.73	3.045
Ca3158_R	W	428,200	ug/L	1,567	0.3660	200,200
Cd2265_A		-0.02603	ug/L	0.007970	30.62	-2.667
Co2286_A		-0.1833	ug/L	0.1131	61.70	-0.09074
Cr2677_A		7.079	ug/L	0.2364	3.339	75.52
Cu3273_A		0.3014	ug/L	0.1022	33.92	18.26
Fe2599_R		7.602	ug/L	3.605	47.42	6.439
K_7664_R	W	214,400	ug/L	560.8	0.2615	86,570
Li6707_R		43.08	ug/L	1.439	3.339	370.7
Mg2025_A		17,610	ug/L	87.49	0.4969	5,166
Mn2576_R		1.279	ug/L	0.09648	7.542	2.321
Mo2020_A		11.87	ug/L	0.02951	0.2486	28.70
Na5895_R	W	25,560	ug/L	93.98	0.3678	44,780
Ni2316_A		-0.01207	ug/L	0.2057	1,704	-1.297
Pb2203_A		0.3544	ug/L	1.331	375.7	-0.5930
Sb2068_A		-1.208	ug/L	0.4180	34.61	-0.8942
Se1960_A		4.067	ug/L	1.789	43.99	3.011
Si2516_R		2,201	ug/L	21.55	0.9795	612.6
Sn1899_A		1.241	ug/L	0.1011	8.151	2.823
Sr4215_R	W	1,364	ug/L	3.765	0.2761	59,970
Ti3349_A		5.186	ug/L	0.01380	0.2661	337.6
Tl1908_A		-0.1560	ug/L	0.05057	32.42	-2.320
V_2924_A		1.730	ug/L	0.09263	5.354	12.62
Zn2062_A		0.4976	ug/L	0.03714	7.464	2.875
Y_3600_R		8,632.5	Cts/S	11.784	0.13651	8,632.5
Y_2243_A		6,905.8	Cts/S	23.112	0.33468	6,905.8
Y_3600_A		157,390	Cts/S	238.34	0.15143	157,390

SQ5080-002L

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:56:17PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.7957	ug/L	1.397	175.5	9.401
Al3961_R		-49.58	ug/L	32.65	65.85	7.817
As1891_A		2.144	ug/L	3.061	142.8	-2.830
B_2089_A		269.9	ug/L	0.5018	0.1859	92.08
Ba4554_R		164.7	ug/L	0.1868	0.1134	1,377
Be3130_R		-0.02087	ug/L	0.1632	782.1	-1.255
Ca3158_R	W	428,700	ug/L	2,426	0.5657	42,290
Cd2265_A		-0.2359	ug/L	0.2349	99.55	-3.172
Co2286_A		0.1442	ug/L	0.8097	561.3	0.6665
Cr2677_A		10.24	ug/L	0.2714	2.650	24.36
Cu3273_A		0.1314	ug/L	0.3101	236.0	14.50
Fe2599_R		24.06	ug/L	10.11	42.01	4.436
K_7664_R	W	211,300	ug/L	1,017	0.4813	18,060
Li6707_R		63.76	ug/L	5.444	8.539	115.4
Mg2025_A		18,880	ug/L	7.252	0.03842	1,165
Mn2576_R		1.039	ug/L	2.404	231.4	-0.9349
Mo2020_A		13.43	ug/L	0.2778	2.069	7.831
Na5895_R		26,390	ug/L	142.2	0.5387	10,040
Ni2316_A		-0.6039	ug/L	0.4767	78.94	-1.657

SQ5080-002L

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 12:56:17PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		-3.498	ug/L	2.771	79.22	-1.928
Sb2068_A		-2.771	ug/L	4.067	146.8	-0.6026
Se1960_A		9.204	ug/L	1.356	14.74	2.627
Si2516_R		2,145	ug/L	59.97	2.796	136.9
Sn1899_A		0.2463	ug/L	3.389	1,376	2.294
Sr4215_R		1,352	ug/L	6.584	0.4868	12,530
Ti3349_A		13.62	ug/L	0.6412	4.707	193.7
Tl1908_A		2.081	ug/L	3.336	160.3	-2.162
V_2924_A		1.475	ug/L	1.424	96.53	-3.900
Zn2062_A		2.215	ug/L	0.5022	22.68	2.863
Y_3600_R		9,112.2	Cts/S	10.832	0.11888	9,112.2
Y_2243_A		7,292.0	Cts/S	3.9351	0.053965	7,292.0
Y_3600_A		170,820	Cts/S	817.27	0.47845	170,820

SQ5080-002N

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:00:36PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		18.17	ug/L	0.4860	2.674	296.1
Al3961_R		677.8	ug/L	17.92	2.645	426.3
As1891_A		37.03	ug/L	1.484	4.008	8.580
B_2089_A		402.8	ug/L	0.8955	0.2223	609.9
Ba4554_R		821.8	ug/L	15.27	1.858	33,440
Be3130_R		17.32	ug/L	0.3114	1.798	803.0
Ca3158_R	W	324,100	ug/L	5,519	1.703	157,400
Cd2265_A		91.82	ug/L	0.02079	0.02264	1,386
Co2286_A		185.3	ug/L	0.01835	0.009905	627.9
Cr2677_A		76.53	ug/L	1.261	1.648	820.3
Cu3273_A		92.86	ug/L	2.003	2.157	1,691
Fe2599_R		356.3	ug/L	9.986	2.802	296.9
K_7664_R	W	165,700	ug/L	2,961	1.787	69,520
Li6707_R		208.5	ug/L	2.534	1.215	1,867
Mg2025_A		16,220	ug/L	12.38	0.07630	4,636
Mn2576_R		171.3	ug/L	2.479	1.447	523.8
Mo2020_A		46.89	ug/L	0.3920	0.8360	106.8
Na5895_R		21,630	ug/L	387.3	1.791	39,430
Ni2316_A		185.0	ug/L	0.04587	0.02479	444.2
Pb2203_A		36.21	ug/L	0.4985	1.377	40.41
Sb2068_A		39.09	ug/L	0.4488	1.148	20.60
Se1960_A		41.70	ug/L	4.721	11.32	11.59
Si2516_R		1,994	ug/L	30.31	1.520	577.8
Sn1899_A		185.9	ug/L	0.08152	0.04385	100.7
Sr4215_R	W	1,208	ug/L	23.10	1.912	55,220
Ti3349_A		182.3	ug/L	3.980	2.183	11,950
Tl1908_A		33.50	ug/L	0.7713	2.302	12.96
V_2924_A		181.5	ug/L	4.088	2.253	2,211
Zn2062_A		187.0	ug/L	0.1848	0.09882	601.2
Y_3600_R		8,971.3	Cts/S	145.32	1.6198	8,971.3
Y_2243_A		6,715.6	Cts/S	1.0122	0.015073	6,715.6
Y_3600_A		159,590	Cts/S	3,145.3	1.9709	159,590

SQ5080-002O

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:04:47PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

SQ5080-002O

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:04:47PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		22.07	ug/L	0.4316	1.956	354.5
Al3961_R		842.1	ug/L	2.283	0.2711	510.7
As1891_A		42.93	ug/L	0.5586	1.301	10.77
B_2089_A		454.3	ug/L	3.582	0.7885	713.2
Ba4554_R	W	1,032	ug/L	2.461	0.2385	40,430
Be3130_R		21.66	ug/L	0.1216	0.5614	967.4
Ca3158_R	W	406,000	ug/L	488.9	0.1204	189,900
Cd2265_A		103.4	ug/L	0.7482	0.7234	1,620
Co2286_A		208.3	ug/L	1.198	0.5749	732.4
Cr2677_A		92.35	ug/L	0.7421	0.8036	979.1
Cu3273_A		112.0	ug/L	0.6876	0.6137	2,015
Fe2599_R		433.9	ug/L	2.621	0.6041	348.1
K_7664_R	W	208,200	ug/L	287.3	0.1380	84,120
Li6707_R		258.7	ug/L	1.105	0.4271	2,230
Mg2025_A		18,220	ug/L	195.8	1.075	5,403
Mn2576_R		213.5	ug/L	1.347	0.6309	628.8
Mo2020_A		53.19	ug/L	0.4527	0.8511	125.5
Na5895_R	W	26,790	ug/L	143.2	0.5344	46,950
Ni2316_A		208.2	ug/L	1.265	0.6076	518.6
Pb2203_A		40.50	ug/L	0.3870	0.9557	47.00
Sb2068_A		43.26	ug/L	0.1814	0.4193	23.74
Se1960_A		46.02	ug/L	2.479	5.387	13.07
Si2516_R		2,536	ug/L	12.38	0.4881	704.1
Sn1899_A		207.7	ug/L	2.120	1.021	116.4
Sr4215_R	W	1,520	ug/L	3.540	0.2329	66,890
Ti3349_A		219.2	ug/L	0.7065	0.3223	14,220
Tl1908_A		38.66	ug/L	0.2264	0.5857	15.82
V_2924_A		219.9	ug/L	1.872	0.8514	2,652
Zn2062_A		211.2	ug/L	1.045	0.4950	704.1
Y_3600_R		8,636.5	Cts/S	83.149	0.96277	8,636.5
Y_2243_A		6,967.6	Cts/S	42.101	0.60425	6,967.6
Y_3600_A		157,850	Cts/S	878.05	0.55627	157,850

SQ5080-003

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:08:57PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.3398	ug/L	0.06881	20.25	12.03
Al3961_R		199.4	ug/L	26.26	13.17	180.3
As1891_A		1.687	ug/L	1.449	85.88	-2.347
B_2089_A		348.0	ug/L	0.5470	0.1572	554.9
Ba4554_R		933.6	ug/L	11.55	1.237	37,930
Be3130_R		0.05264	ug/L	0.08232	156.4	1.367
Ca3158_R	W	434,600	ug/L	11,650	2.681	210,800
Cd2265_A		0.2056	ug/L	0.004495	2.186	0.9240
Co2286_A		1.632	ug/L	0.08167	5.006	6.397
Cr2677_A		5.598	ug/L	0.1240	2.215	82.48
Cu3273_A		3.788	ug/L	0.03359	0.8866	84.03
Fe2599_R		16.87	ug/L	0.002238	0.01327	14.38
K_7664_R	W	25,830	ug/L	295.5	1.144	10,870
Li6707_R		25.04	ug/L	0.1238	0.4943	223.3
Mg2025_A	W	26,420	ug/L	45.70	0.1730	7,961
Mn2576_R	W	3,679	ug/L	48.79	1.326	11,260
Mo2020_A		1.429	ug/L	0.06696	4.685	4.443
Na5895_R		9,474	ug/L	105.9	1.118	17,440
Ni2316_A		28.27	ug/L	0.01046	0.03701	70.53

SQ5080-003

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:08:57PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		3.097	ug/L	0.2915	9.413	2.704
Sb2068_A		-0.5000	ug/L	0.6506	130.1	-0.5343
Se1960_A		1.746	ug/L	0.2144	12.28	3.178
Si2516_R	W	31,250	ug/L	291.4	0.9326	8,850
Sn1899_A		1.064	ug/L	0.3830	35.98	2.799
Sr4215_R	W	1,718	ug/L	18.32	1.066	78,400
Ti3349_A		5.139	ug/L	0.08853	1.723	349.7
Tl1908_A		1.217	ug/L	0.8766	72.06	-6.202
V_2924_A		6.052	ug/L	0.2033	3.360	52.99
Zn2062_A		27.40	ug/L	0.1987	0.7251	94.10
Y_3600_R		8,955.4	Cts/S	112.17	1.2526	8,955.4
Y_2243_A		7,089.4	Cts/S	4.8145	0.067911	7,089.4
Y_3600_A		164,490	Cts/S	61.845	0.037598	164,490

CCV

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:13:13PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A	W	538.7	ug/L	2.155	0.4001	9,189
Al3961_R	W	13,520	ug/L	23.52	0.1740	7,342
As1891_A	W	535.7	ug/L	3.606	0.6732	176.7
B_2089_A	W	538.0	ug/L	0.7088	0.1317	921.8
Ba4554_R	W	536.1	ug/L	1.770	0.3302	21,510
Be3130_R	W	541.1	ug/L	0.8717	0.1611	24,950
Ca3158_R	W	13,420	ug/L	37.25	0.2776	6,402
Cd2265_A	W	539.6	ug/L	0.3508	0.06500	9,016
Co2286_A	W	546.0	ug/L	0.3947	0.07229	2,039
Cr2677_A	W	542.1	ug/L	3.209	0.5920	6,194
Cu3273_A	W	537.9	ug/L	2.522	0.4688	10,410
Fe2599_R	W	13,480	ug/L	6.433	0.04771	11,060
K_7664_R	W	13,620	ug/L	39.51	0.2902	5,685
Li6707_R	W	542.7	ug/L	1.147	0.2114	4,791
Mg2025_A	W	13,590	ug/L	28.45	0.2093	4,301
Mn2576_R	W	538.3	ug/L	3.419	0.6351	1,625
Mo2020_A	W	539.3	ug/L	1.263	0.2343	1,341
Na5895_R	W	13,610	ug/L	19.83	0.1457	24,580
Ni2316_A	W	546.5	ug/L	0.1639	0.02999	1,448
Pb2203_A	W	548.6	ug/L	0.6316	0.1151	690.3
Sb2068_A		521.3	ug/L	4.550	0.8727	315.6
Se1960_A	W	531.5	ug/L	0.4510	0.08486	136.3
Si2516_R	W	13,490	ug/L	98.33	0.7287	3,781
Sn1899_A	W	545.1	ug/L	0.6231	0.1143	321.0
Sr4215_R	W	535.9	ug/L	1.170	0.2183	24,120
Ti3349_A	W	541.2	ug/L	1.623	0.2999	37,890
Tl1908_A	F	552.4	ug/L	0.6779	0.1227	274.7
V_2924_A	W	534.1	ug/L	3.159	0.5914	6,908
Zn2062_A	W	542.9	ug/L	1.465	0.2698	1,921
Y_3600_R		8,842.5	Cts/S	52.652	0.59545	8,842.5
Y_2243_A		7,404.4	Cts/S	28.280	0.38194	7,404.4
Y_3600_A		170,410	Cts/S	409.07	0.24005	170,410

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:17:19PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:17:19PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.1517	ug/L	0.1350	89.02	9.624
Al3961_R		0.3907	ug/L	10.68	2,734	-0.8512
As1891_A		1.860	ug/L	0.6816	36.64	-2.472
B_2089_A		0.5295	ug/L	0.09510	17.96	5.257
Ba4554_R		0.1740	ug/L	0.04476	25.72	23.06
Be3130_R		0.1940	ug/L	0.03648	18.81	8.089
Ca3158_R		-6.068	ug/L	2.172	35.80	-30.01
Cd2265_A		0.07170	ug/L	0.006364	8.876	-1.293
Co2286_A		0.2186	ug/L	0.1325	60.59	1.410
Cr2677_A		0.1414	ug/L	0.08468	59.89	2.631
Cu3273_A		-0.2378	ug/L	0.2537	106.7	9.762
Fe2599_R		1.609	ug/L	2.006	124.7	1.686
K_7664_R		219.9	ug/L	9.839	4.475	148.8
Li6707_R		2.832	ug/L	0.02096	0.7400	24.64
Mg2025_A		-0.1919	ug/L	2.420	1,261	-6.257
Mn2576_R		-0.1587	ug/L	0.4729	297.9	-2.039
Mo2020_A		1.934	ug/L	0.3543	18.32	6.284
Na5895_R		55.34	ug/L	5.468	9.881	440.6
Ni2316_A		0.2722	ug/L	0.05202	19.11	-0.6608
Pb2203_A		0.06885	ug/L	0.04363	63.37	-1.019
Sb2068_A	W	5.131	ug/L	0.9527	18.57	2.881
Se1960_A		0.6345	ug/L	0.7955	125.4	2.442
Si2516_R		13.54	ug/L	7.473	55.20	16.93
Sn1899_A		-0.3449	ug/L	0.4935	143.1	2.169
Sr4215_R		0.1201	ug/L	0.05418	45.13	-26.41
Ti3349_A		0.1026	ug/L	0.02319	22.62	10.04
Tl1908_A		0.8290	ug/L	0.5222	63.00	-2.051
V_2924_A		0.2726	ug/L	0.1467	53.80	-4.206
Zn2062_A		0.1400	ug/L	0.04014	28.67	1.903
Y_3600_R		8,908.9	Cts/S	39.534	0.44376	8,908.9
Y_2243_A		7,648.8	Cts/S	7.9261	0.10363	7,648.8
Y_3600_A		177,050	Cts/S	192.79	0.10889	177,050

SQ5102-001

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:21:43PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.1953	ug/L	0.1516	77.61	9.799
Al3961_R		1,363	ug/L	4.627	0.3395	764.3
As1891_A		0.7628	ug/L	0.1393	18.26	-2.866
B_2089_A		122.4	ug/L	0.7753	0.6337	207.1
Ba4554_R		63.09	ug/L	0.2008	0.3183	2,611
Be3130_R		0.2056	ug/L	0.05211	25.34	8.686
Ca3158_R	W	40,810	ug/L	192.7	0.4722	20,020
Cd2265_A		0.02050	ug/L	0.04322	210.9	1.755
Co2286_A		8.917	ug/L	0.1454	1.630	33.77
Cr2677_A		2.209	ug/L	0.08652	3.917	27.39
Cu3273_A		0.2612	ug/L	0.02548	9.751	20.30
Fe2599_R		1,839	ug/L	4.020	0.2186	1,548
K_7664_R		1,951	ug/L	7.698	0.3945	885.7
Li6707_R		8.157	ug/L	0.9060	11.11	73.26
Mg2025_A		2,066	ug/L	23.65	1.145	643.7
Mn2576_R		370.7	ug/L	1.141	0.3077	1,148
Mo2020_A		20.12	ug/L	0.1071	0.5321	51.16
Na5895_R	F	282,900	ug/L	4,832	1.708	517,200
Ni2316_A		14.39	ug/L	0.3804	2.643	36.63

SQ5102-001

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:21:43PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		15.07	ug/L	0.3543	2.351	17.83
Sb2068_A		5.489	ug/L	0.1076	1.961	3.039
Se1960_A		2.538	ug/L	0.7569	29.83	2.932
Si2516_R		794.5	ug/L	21.71	2.733	240.9
Sn1899_A		1.217	ug/L	0.7418	60.96	3.009
Sr4215_R		174.2	ug/L	0.6573	0.3774	8,020
Ti3349_A		2.395	ug/L	0.09944	4.152	165.9
Tl1908_A		-0.7619	ug/L	0.04906	6.439	-3.236
V_2924_A		1.272	ug/L	0.06549	5.147	5.177
Zn2062_A		945.6	ug/L	4.135	0.4373	3,342
Y_3600_R		9,070.5	Cts/S	110.33	1.2164	9,070.5
Y_2243_A		7,391.3	Cts/S	63.957	0.86531	7,391.3
Y_3600_A		166,260	Cts/S	54.754	0.032934	166,260

SQ5102-002

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:26:03PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.2153	ug/L	0.04852	22.53	9.969
Al3961_R		1,340	ug/L	3.555	0.2652	747.9
As1891_A		-1.824	ug/L	1.222	67.03	-3.738
B_2089_A		140.9	ug/L	1.096	0.7776	234.3
Ba4554_R		74.56	ug/L	0.05336	0.07157	3,068
Be3130_R		0.1132	ug/L	0.05244	46.35	4.293
Ca3158_R	W	40,570	ug/L	164.8	0.4061	19,810
Cd2265_A		-0.03547	ug/L	0.02111	59.53	2.631
Co2286_A		10.06	ug/L	0.08147	0.8095	37.50
Cr2677_A		2.758	ug/L	0.02977	1.079	33.05
Cu3273_A		1.636	ug/L	0.6225	38.04	46.46
Fe2599_R		2,717	ug/L	2.996	0.1103	2,276
K_7664_R		2,100	ug/L	33.88	1.613	943.9
Li6707_R		11.37	ug/L	0.3253	2.862	101.9
Mg2025_A		2,147	ug/L	19.55	0.9109	659.4
Mn2576_R		408.1	ug/L	3.284	0.8046	1,257
Mo2020_A		20.80	ug/L	0.2212	1.063	52.07
Na5895_R	F	297,300	ug/L	1,907	0.6414	540,900
Ni2316_A		16.72	ug/L	0.2344	1.402	42.09
Pb2203_A		10.85	ug/L	0.3657	3.370	12.37
Sb2068_A		5.253	ug/L	0.01578	0.3005	2.864
Se1960_A		2.731	ug/L	1.041	38.13	2.953
Si2516_R		799.8	ug/L	0.2747	0.03434	241.2
Sn1899_A		1.967	ug/L	0.04350	2.212	3.395
Sr4215_R		206.7	ug/L	0.1349	0.06528	9,475
Ti3349_A		2.451	ug/L	0.007654	0.3123	166.7
Tl1908_A		-0.9690	ug/L	0.1901	19.61	-3.337
V_2924_A		1.812	ug/L	0.05685	3.138	11.65
Zn2062_A		976.0	ug/L	5.568	0.5705	3,399
Y_3600_R		9,025.7	Cts/S	54.417	0.60292	9,025.7
Y_2243_A		7,283.9	Cts/S	54.339	0.74601	7,283.9
Y_3600_A		163,290	Cts/S	77.832	0.047665	163,290

SQ5102-003

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:30:22PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

SQ5102-003

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:30:22PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.06886	ug/L	0.04978	72.29	5.386
Al3961_R		1,240	ug/L	16.20	1.306	696.3
As1891_A		0.5184	ug/L	1.053	203.0	-2.985
B_2089_A		126.3	ug/L	0.8824	0.6986	212.2
Ba4554_R		88.64	ug/L	0.9412	1.062	3,660
Be3130_R		0.2370	ug/L	0.1798	75.85	10.23
Ca3158_R	W	45,820	ug/L	163.7	0.3571	22,470
Cd2265_A		0.05055	ug/L	0.03069	60.71	4.034
Co2286_A		9.813	ug/L	0.02906	0.2962	36.88
Cr2677_A		1.710	ug/L	0.06697	3.916	22.71
Cu3273_A		1.035	ug/L	0.05906	5.705	35.75
Fe2599_R		2,700	ug/L	2.271	0.08410	2,272
K_7664_R		2,156	ug/L	18.44	0.8552	972.2
Li6707_R		16.59	ug/L	0.5968	3.597	149.6
Mg2025_A		2,351	ug/L	17.48	0.7435	728.7
Mn2576_R		569.9	ug/L	1.661	0.2914	1,764
Mo2020_A		19.30	ug/L	0.1318	0.6832	48.78
Na5895_R	F	306,300	ug/L	3,815	1.245	559,900
Ni2316_A		18.20	ug/L	0.06283	0.3452	46.35
Pb2203_A		15.31	ug/L	0.2572	1.680	18.08
Sb2068_A		4.463	ug/L	0.6790	15.21	2.411
Se1960_A		3.093	ug/L	0.1672	5.407	3.095
Si2516_R		952.1	ug/L	16.93	1.778	285.8
Sn1899_A		0.7021	ug/L	1.203	171.3	2.688
Sr4215_R		216.9	ug/L	2.311	1.065	9,990
Ti3349_A		2.380	ug/L	0.1500	6.304	163.7
Tl1908_A		-0.7874	ug/L	0.6686	84.91	-3.478
V_2924_A		1.181	ug/L	0.008681	0.7352	3.272
Zn2062_A		964.6	ug/L	6.029	0.6250	3,387
Y_3600_R		9,065.3	Cts/S	104.91	1.1573	9,065.3
Y_2243_A		7,343.7	Cts/S	27.752	0.37790	7,343.7
Y_3600_A		165,130	Cts/S	413.84	0.25062	165,130

SQ5102-004

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:34:41PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.08352	ug/L	0.2439	292.0	5.053
Al3961_R		1,268	ug/L	14.28	1.126	688.7
As1891_A		0.04522	ug/L	0.1900	420.2	-3.122
B_2089_A		139.9	ug/L	0.8796	0.6286	228.6
Ba4554_R		77.12	ug/L	0.7053	0.9145	3,084
Be3130_R		0.2546	ug/L	0.01357	5.328	10.66
Ca3158_R	W	43,030	ug/L	59.99	0.1394	20,420
Cd2265_A		-0.04369	ug/L	0.01466	33.55	4.301
Co2286_A		11.64	ug/L	0.2001	1.719	42.55
Cr2677_A		1.627	ug/L	0.1079	6.630	20.42
Cu3273_A		0.7707	ug/L	0.01175	1.524	31.20
Fe2599_R		3,624	ug/L	0.3793	0.01047	2,950
K_7664_R		2,067	ug/L	10.50	0.5080	904.0
Li6707_R		12.28	ug/L	0.9801	7.984	107.0
Mg2025_A		2,214	ug/L	6.384	0.2884	668.4
Mn2576_R		420.2	ug/L	0.9408	0.2239	1,258
Mo2020_A		21.37	ug/L	0.04348	0.2034	52.54
Na5895_R	F	313,200	ug/L	1,349	0.4309	553,900
Ni2316_A		18.18	ug/L	0.08669	0.4769	45.03

SQ5102-004

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:34:41PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		12.67	ug/L	0.5579	4.404	14.43
Sb2068_A		4.382	ug/L	0.1231	2.808	2.310
Se1960_A		2.680	ug/L	0.4446	16.59	2.898
Si2516_R		739.8	ug/L	4.689	0.6338	217.8
Sn1899_A		1.159	ug/L	0.2519	21.73	2.880
Sr4215_R		223.3	ug/L	2.483	1.112	9,954
Ti3349_A		2.370	ug/L	0.1260	5.318	159.4
Tl1908_A		-0.6081	ug/L	0.1202	19.77	-3.117
V_2924_A		1.531	ug/L	0.2487	16.25	8.020
Zn2062_A	W	1,054	ug/L	1.824	0.1731	3,606
Y_3600_R		8,773.3	Cts/S	14.976	0.17070	8,773.3
Y_2243_A		7,157.2	Cts/S	36.575	0.51103	7,157.2
Y_3600_A		161,390	Cts/S	550.33	0.34099	161,390

SQ5102-005

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:39:01PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.2015	ug/L	0.3716	184.4	3.155
Al3961_R		1,568	ug/L	2.752	0.1755	854.3
As1891_A		1.633	ug/L	0.3924	24.03	-2.558
B_2089_A		139.7	ug/L	0.6835	0.4894	228.9
Ba4554_R		81.44	ug/L	0.4475	0.5495	3,269
Be3130_R		0.1928	ug/L	0.01275	6.612	7.864
Ca3158_R	W	47,500	ug/L	287.0	0.6041	22,640
Cd2265_A		-0.005165	ug/L	0.0001160	2.238	3.396
Co2286_A		12.30	ug/L	0.1107	0.9007	44.97
Cr2677_A		1.711	ug/L	0.08400	4.909	21.70
Cu3273_A		0.6967	ug/L	0.1800	25.84	28.93
Fe2599_R		2,875	ug/L	19.63	0.6828	2,350
K_7664_R		2,179	ug/L	33.53	1.539	953.8
Li6707_R		11.42	ug/L	0.09572	0.8380	99.92
Mg2025_A		2,382	ug/L	3.239	0.1360	721.0
Mn2576_R		464.8	ug/L	0.8759	0.1884	1,398
Mo2020_A		26.65	ug/L	0.03108	0.1166	65.32
Na5895_R	F	329,400	ug/L	2,683	0.8145	585,100
Ni2316_A		19.10	ug/L	0.06067	0.3176	47.55
Pb2203_A		13.27	ug/L	0.2632	1.983	15.11
Sb2068_A		4.753	ug/L	0.3169	6.668	2.523
Se1960_A		0.7537	ug/L	0.6855	90.95	2.438
Si2516_R		871.8	ug/L	2.149	0.2465	255.4
Sn1899_A		0.6354	ug/L	0.2747	43.23	2.588
Sr4215_R		227.0	ug/L	1.335	0.5879	10,160
Ti3349_A		2.361	ug/L	0.04781	2.025	159.3
Tl1908_A		-1.313	ug/L	0.4353	33.15	-3.518
V_2924_A		2.001	ug/L	0.2557	12.78	13.06
Zn2062_A	W	1,050	ug/L	0.4920	0.04686	3,599
Y_3600_R		8,809.9	Cts/S	17.365	0.19711	8,809.9
Y_2243_A		7,169.3	Cts/S	6.5195	0.090936	7,169.3
Y_3600_A		161,940	Cts/S	961.20	0.59354	161,940

SQ5102-006

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:43:20PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

SQ5102-006

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:43:20PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.05070	ug/L	0.06049	119.3	5.757
Al3961_R		1,402	ug/L	10.53	0.7512	785.4
As1891_A		0.3722	ug/L	1.286	345.5	-3.026
B_2089_A		132.4	ug/L	0.1342	0.1014	221.1
Ba4554_R		71.11	ug/L	0.5284	0.7431	2,938
Be3130_R		0.2154	ug/L	0.07077	32.86	9.143
Ca3158_R	W	42,220	ug/L	414.4	0.9817	20,690
Cd2265_A		-0.0002760	ug/L	0.004476	1,622	3.557
Co2286_A		11.03	ug/L	0.1674	1.517	41.17
Cr2677_A		1.527	ug/L	0.04821	3.157	20.03
Cu3273_A		0.8755	ug/L	0.2141	24.46	33.31
Fe2599_R		2,881	ug/L	13.05	0.4531	2,423
K_7664_R		2,003	ug/L	17.13	0.8555	906.5
Li6707_R		11.64	ug/L	0.5987	5.143	104.8
Mg2025_A		2,203	ug/L	18.45	0.8374	678.6
Mn2576_R		412.0	ug/L	1.528	0.3710	1,274
Mo2020_A		23.46	ug/L	0.1321	0.5632	58.72
Na5895_R	F	302,800	ug/L	1,687	0.5573	553,000
Ni2316_A		17.19	ug/L	0.05159	0.3001	43.42
Pb2203_A		16.07	ug/L	0.3827	2.382	18.90
Sb2068_A		4.677	ug/L	0.2851	6.095	2.524
Se1960_A		0.8410	ug/L	0.1936	23.03	2.494
Si2516_R		776.8	ug/L	5.217	0.6716	235.5
Sn1899_A		0.6627	ug/L	0.2729	41.18	2.651
Sr4215_R		201.3	ug/L	1.622	0.8054	9,266
Ti3349_A		2.321	ug/L	0.05651	2.435	161.5
Tl1908_A		-1.169	ug/L	0.5124	43.85	-3.449
V_2924_A		1.650	ug/L	0.2090	12.67	9.570
Zn2062_A		974.9	ug/L	4.291	0.4401	3,404
Y_3600_R		9,061.0	Cts/S	69.021	0.76174	9,061.0
Y_2243_A		7,302.6	Cts/S	33.790	0.46271	7,302.6
Y_3600_A		167,030	Cts/S	264.96	0.15863	167,030

SQ5108-001

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:47:40PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.04606	ug/L	0.4312	936.2	5.616
Al3961_R		47.27	ug/L	3.114	6.588	26.66
As1891_A		-1.703	ug/L	0.1975	11.59	-3.445
B_2089_A		3.092	ug/L	0.03983	1.288	8.860
Ba4554_R		19.82	ug/L	0.1279	0.6456	825.0
Be3130_R		0.08605	ug/L	0.1684	195.7	3.067
Ca3158_R		10,170	ug/L	25.19	0.2477	4,929
Cd2265_A		0.1001	ug/L	0.001708	1.707	-0.7342
Co2286_A		4.239	ug/L	0.1852	4.370	15.67
Cr2677_A		0.5317	ug/L	0.1050	19.75	9.741
Cu3273_A		1.411	ug/L	0.1565	11.09	39.36
Fe2599_R		12.69	ug/L	0.8334	6.568	10.96
K_7664_R		1,310	ug/L	22.26	1.699	609.0
Li6707_R		11.12	ug/L	0.1561	1.404	99.37
Mg2025_A		2,040	ug/L	8.792	0.4309	610.5
Mn2576_R		573.3	ug/L	0.6090	0.1062	1,762
Mo2020_A		0.3479	ug/L	0.01195	3.436	2.026
Na5895_R	F	353,200	ug/L	3,722	1.054	640,800
Ni2316_A		6.150	ug/L	0.08412	1.368	14.34

SQ5108-001 9 10/2/23

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:47:40PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		0.4881	ug/L	0.8235	168.7	-0.4374
Sb2068_A		-0.1343	ug/L	1.039	774.0	-0.3646
Se1960_A		2.097	ug/L	0.6448	30.76	2.720
Si2516_R		781.9	ug/L	5.825	0.7450	235.5
Sn1899_A		0.1819	ug/L	0.3353	184.3	2.308
Sr4215_R		72.49	ug/L	0.04787	0.06604	3,293
Ti3349_A		0.9740	ug/L	0.1020	10.47	67.47
Tl1908_A		-0.7953	ug/L	0.8922	112.2	-3.378
V_2924_A		0.2781	ug/L	0.3557	127.9	-6.100
Zn2062_A		5.082	ug/L	0.1825	3.591	18.53
Y_3600_R		8,999.6	Cts/S	8.2319	0.091469	8,999.6
Y_2243_A		7,098.3	Cts/S	19.564	0.27562	7,098.3
Y_3600_A		162,690	Cts/S	493.59	0.30340	162,690

SQ5108-001 8 10/2/23

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:52:05PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.3198	ug/L	0.2203	68.87	1.275
Al3961_R		28.33	ug/L	14.16	49.97	18.58
As1891_A		-1.513	ug/L	0.7227	47.76	-3.667
B_2089_A		31.11	ug/L	0.2799	0.8997	60.38
Ba4554_R		57.66	ug/L	0.1109	0.1924	2,435
Be3130_R		-0.01393	ug/L	0.04495	322.8	-1.682
Ca3158_R		17,120	ug/L	26.85	0.1568	8,547
Cd2265_A		-0.02950	ug/L	0.06088	206.4	-3.060
Co2286_A		-0.1145	ug/L	0.07245	63.27	0.1387
Cr2677_A		4.788	ug/L	0.09558	1.996	58.64
Cu3273_A		0.9125	ug/L	0.1096	12.01	33.32
Fe2599_R		10.82	ug/L	0.002995	0.02767	9.658
K_7664_R		5,477	ug/L	20.06	0.3663	2,427
Li6707_R		8.577	ug/L	0.2467	2.876	78.62
Mg2025_A		11.57	ug/L	0.06187	0.5348	-2.322
Mn2576_R		0.2726	ug/L	0.7304	267.9	-0.7605
Mo2020_A		38.18	ug/L	0.1117	0.2925	100.9
Na5895_R		8,994	ug/L	13.41	0.1491	17,110
Ni2316_A		0.09949	ug/L	0.03522	35.40	-1.133
Pb2203_A		-0.02270	ug/L	0.2629	1,158	-1.229
Sb2068_A		-0.1983	ug/L	0.3051	153.8	-0.4076
Se1960_A		-0.3371	ug/L	1.354	401.6	2.225
Si2516_R		1,103	ug/L	2.319	0.2102	335.8
Sn1899_A		0.2501	ug/L	0.08512	34.03	2.568
Sr4215_R		75.47	ug/L	0.2648	0.3509	3,524
Ti3349_A		1.484	ug/L	0.01520	1.024	112.0
Tl1908_A		0.4907	ug/L	0.3169	64.58	-2.265
V_2924_A		2.147	ug/L	0.2296	10.69	17.01
Zn2062_A		37.10	ug/L	0.2360	0.6362	139.1
Y_3600_R		9,248.3	Cts/S	35.885	0.38802	9,248.3
Y_2243_A		7,769.2	Cts/S	2.3889	0.030749	7,769.2
Y_3600_A		179,740	Cts/S	1,717.1	0.95533	179,740

SQ5108-001L 8 10/2/23

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:56:29PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

SQ5109-001L

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 1:56:29PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-1.183	ug/L	0.5683	48.03	2.729
Al3961_R		-14.59	ug/L	11.72	80.31	-1.976
As1891_A		4.261	ug/L	7.997	187.7	-2.816
B_2089_A		32.50	ug/L	0.8040	2.474	15.79
Ba4554_R		60.51	ug/L	1.233	2.037	508.0
Be3130_R		0.3143	ug/L	0.2257	71.81	2.003
Ca3158_R		17,880	ug/L	116.0	0.6488	1,708
Cd2265_A		-0.05193	ug/L	0.05062	97.49	-2.699
Co2286_A		0.2902	ug/L	0.3059	105.4	0.7930
Cr2677_A		4.110	ug/L	0.4513	10.98	10.62
Cu3273_A		-0.8519	ug/L	0.8983	105.4	11.01
Fe2599_R		24.17	ug/L	8.486	35.10	4.379
K_7664_R		5,855	ug/L	65.64	1.121	548.2
Li6707_R		11.66	ug/L	1.940	16.64	20.31
Mg2025_A		10.77	ug/L	8.720	80.94	-5.474
Mn2576_R		3.219	ug/L	2.230	69.28	0.4066
Mo2020_A		40.92	ug/L	0.4924	1.203	22.32
Na5895_R		9,946	ug/L	110.9	1.115	3,935
Ni2316_A		0.8731	ug/L	0.2603	29.81	-0.9252
Pb2203_A		-2.440	ug/L	0.8557	35.07	-1.757
Sb2068_A		-1.142	ug/L	1.177	103.1	-0.4473
Se1960_A		-2.793	ug/L	0.07023	2.515	2.133
Si2516_R		1,144	ug/L	48.44	4.234	77.97
Sn1899_A		-0.7153	ug/L	3.806	532.0	2.290
Sr4215_R		79.08	ug/L	1.124	1.421	690.4
Ti3349_A		1.576	ug/L	0.1060	6.724	25.23
Tl1908_A		-1.211	ug/L	2.597	214.4	-2.609
V_2924_A		1.272	ug/L	0.7214	56.72	-5.188
Zn2062_A		39.76	ug/L	0.3282	0.8254	30.47
Y_3600_R		8,962.0	Cts/S	33.552	0.37438	8,962.0
Y_2243_A		7,650.0	Cts/S	16.712	0.21846	7,650.0
Y_3600_A		175,480	Cts/S	909.53	0.51831	175,480

SQ5109-001N

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:00:52PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		21.47	ug/L	0.2811	1.309	356.4
Al3961_R		903.7	ug/L	6.532	0.7228	495.5
As1891_A		41.94	ug/L	1.090	2.599	10.66
B_2089_A		215.0	ug/L	4.243	1.974	347.5
Ba4554_R		851.6	ug/L	7.492	0.8797	34,450
Be3130_R		21.46	ug/L	0.03597	0.1676	990.1
Ca3158_R		10,240	ug/L	28.92	0.2823	4,920
Cd2265_A		107.2	ug/L	2.345	2.187	1,714
Co2286_A		218.7	ug/L	4.646	2.124	784.9
Cr2677_A		87.39	ug/L	0.2050	0.2346	959.7
Cu3273_A		108.7	ug/L	0.6923	0.6370	2,019
Fe2599_R		429.9	ug/L	0.3037	0.07064	356.1
K_7664_R		5,207	ug/L	51.56	0.9902	2,228
Li6707_R		213.5	ug/L	1.456	0.6819	1,900
Mg2025_A		3,797	ug/L	79.08	2.083	1,152
Mn2576_R		720.4	ug/L	1.276	0.1771	2,194
Mo2020_A		42.76	ug/L	0.8262	1.932	103.2
Na5895_R	F	322,400	ug/L	5,047	1.565	579,600
Ni2316_A		220.6	ug/L	4.926	2.233	561.1

SQ5109-001N

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:00:52PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Pb2203_A		42.28	ug/L	0.5233	1.238	50.16
Sb2068_A		42.83	ug/L	0.8688	2.029	23.90
Se1960_A		43.63	ug/L	0.1773	0.4063	12.86
Si2516_R		1,138	ug/L	5.592	0.4915	333.3
Sn1899_A		212.1	ug/L	4.921	2.320	121.3
Sr4215_R		271.4	ug/L	1.554	0.5725	12,300
Ti3349_A		210.5	ug/L	0.1080	0.05133	14,100
Tl1908_A		39.84	ug/L	0.6727	1.688	16.13
V_2924_A		218.1	ug/L	0.4416	0.2024	2,716
Zn2062_A		228.3	ug/L	4.381	1.919	777.1
Y_3600_R		8,916.9	Cts/S	8.5149	0.095492	8,916.9
Y_2243_A		7,113.9	Cts/S	117.51	1.6519	7,113.9
Y_3600_A		163,010	Cts/S	1,145.0	0.70239	163,010

CCV

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:05:10PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A	W	527.6	ug/L	0.8184	0.1551	9,115
Al3961_R	W	13,330	ug/L	44.94	0.3371	7,225
As1891_A		517.7	ug/L	0.8123	0.1569	172.3
B_2089_A		524.2	ug/L	0.09821	0.01873	907.0
Ba4554_R		525.5	ug/L	0.4134	0.07867	21,040
Be3130_R	W	529.7	ug/L	2.193	0.4141	24,380
Ca3158_R		13,140	ug/L	18.72	0.1425	6,253
Cd2265_A		524.8	ug/L	1.841	0.3509	8,853
Co2286_A	W	531.0	ug/L	1.026	0.1933	2,002
Cr2677_A	W	530.6	ug/L	0.3064	0.05774	6,141
Cu3273_A		526.0	ug/L	2.421	0.4602	10,310
Fe2599_R	W	13,260	ug/L	16.46	0.1241	10,850
K_7664_R		13,170	ug/L	34.36	0.2609	5,489
Li6707_R	W	534.8	ug/L	1.681	0.3144	4,711
Mg2025_A	W	13,240	ug/L	6.165	0.04657	4,230
Mn2576_R	W	532.6	ug/L	4.660	0.8748	1,605
Mo2020_A		526.2	ug/L	1.155	0.2196	1,321
Na5895_R	W	13,500	ug/L	14.69	0.1088	24,350
Ni2316_A	W	531.1	ug/L	1.015	0.1911	1,421
Pb2203_A	W	532.7	ug/L	1.769	0.3322	676.7
Sb2068_A		514.8	ug/L	2.091	0.4062	314.7
Se1960_A		514.7	ug/L	2.913	0.5659	133.3
Si2516_R		13,240	ug/L	16.76	0.1266	3,701
Sn1899_A	W	529.6	ug/L	1.974	0.3727	314.9
Sr4215_R		525.6	ug/L	0.1830	0.03481	23,610
Ti3349_A	W	528.1	ug/L	0.8395	0.1590	37,440
Tl1908_A	W	537.2	ug/L	0.3567	0.06640	269.6
V_2924_A		523.3	ug/L	1.229	0.2349	6,854
Zn2062_A		526.3	ug/L	3.712	0.7053	1,880
Y_3600_R		8,824.4	Cts/S	7.7551	0.087883	8,824.4
Y_2243_A		7,476.1	Cts/S	30.791	0.41185	7,476.1
Y_3600_A		172,580	Cts/S	352.37	0.20418	172,580

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:09:19PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio

CCB

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:09:19PM
Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.2559	ug/L	0.06746	26.37	2.429
Al3961_R		-8.068	ug/L	1.886	23.37	-5.460
As1891_A		0.5679	ug/L	1.170	206.0	-2.894
B_2089_A		0.4695	ug/L	0.2139	45.57	5.099
Ba4554_R		0.1082	ug/L	0.2297	212.2	20.25
Be3130_R		0.09114	ug/L	0.07133	78.26	3.278
Ca3158_R		-3.197	ug/L	0.1301	4.071	-28.46
Cd2265_A		0.02924	ug/L	0.04129	141.2	-1.997
Co2286_A		0.09818	ug/L	0.05280	53.78	0.9378
Cr2677_A		-0.05071	ug/L	0.01025	20.22	0.3583
Cu3273_A		0.06590	ug/L	0.01123	17.04	16.00
Fe2599_R		5.430	ug/L	1.549	28.53	4.815
K_7664_R		27.40	ug/L	41.24	150.5	68.35
Li6707_R		1.905	ug/L	3.129	164.2	16.19
Mg2025_A		0.3774	ug/L	0.1714	45.42	-6.021
Mn2576_R		0.4135	ug/L	0.1101	26.63	-0.2964
Mo2020_A		1.799	ug/L	0.4267	23.72	5.882
Na5895_R		116.1	ug/L	7.136	6.148	546.5
Ni2316_A		0.1519	ug/L	0.1194	78.61	-0.9821
Pb2203_A		-0.06810	ug/L	0.8296	1,218	-1.184
Sb2068_A		2.079	ug/L	0.7953	38.26	0.9737
Se1960_A		1.347	ug/L	1.149	85.32	2.603
Si2516_R		18.44	ug/L	10.21	55.38	18.22
Sn1899_A		-0.6683	ug/L	0.2458	36.78	1.955
Sr4215_R		-0.01543	ug/L	0.2517	1,631	-32.42
Ti3349_A		0.1093	ug/L	0.01937	17.72	10.61
Tl1908_A		0.7631	ug/L	0.09907	12.98	-2.067
V_2924_A		0.3059	ug/L	0.1395	45.61	-3.765
Zn2062_A		0.04731	ug/L	0.03492	73.83	1.551
Y_3600_R		8,857.8	Cts/S	71.331	0.80529	8,857.8
Y_2243_A		7,577.9	Cts/S	12.100	0.15968	7,577.9
Y_3600_A		178,510	Cts/S	243.43	0.13637	178,510

SQ5109-001O

Method Name: FAST-2022_POP
Method Revision: 444
Analyst Name: TT
Acquire Date: 9/29/2023 2:13:43PM
Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		21.71	ug/L	0.2557	1.178	360.9
Al3961_R		872.7	ug/L	14.85	1.701	485.5
As1891_A		40.69	ug/L	0.1577	0.3876	10.33
B_2089_A		213.2	ug/L	0.5496	0.2577	346.9
Ba4554_R		839.0	ug/L	5.927	0.7064	34,440
Be3130_R		21.04	ug/L	0.1838	0.8736	984.7
Ca3158_R		10,040	ug/L	104.8	1.044	4,893
Cd2265_A		105.9	ug/L	0.1701	0.1606	1,704
Co2286_A		216.5	ug/L	0.2234	0.1032	781.6
Cr2677_A		86.66	ug/L	1.426	1.645	953.4
Cu3273_A		107.7	ug/L	0.4950	0.4594	2,006
Fe2599_R		430.9	ug/L	5.646	1.310	362.1
K_7664_R		5,113	ug/L	76.03	1.487	2,220
Li6707_R		211.1	ug/L	1.020	0.4834	1,906
Mg2025_A		3,759	ug/L	14.09	0.3749	1,148
Mn2576_R		708.0	ug/L	4.045	0.5714	2,188
Mo2020_A		42.81	ug/L	0.2185	0.5104	104.0
Na5895_R	F	320,000	ug/L	5,955	1.861	583,600
Ni2316_A		218.9	ug/L	0.6959	0.3180	560.1

KATAHDIN ANALYTICAL SERVICES, LLC
METALS ANALYSIS RUN INFORMATION SHEET

INSTR. ID: Teledyne M7600 (M) **ANALYST**: CD **ANALYSIS DATE**: 09/28/2023

FILE NAME: MQI28B

Reviewed By: 9/29/23

METHOD: **CVAA**

Analyte: Mercury

$SnCl_2$ Lot: MR3765

- ☑ 245.1
- ☑ 7470
- ☐ 7471
- ☑ DoD
- ☐ _____

STANDARDS USED:

Standard Name	Prep. Date	Expiration Date	Standard Conc.
Cal. Blank / ICB / CCB	09/28/2023	09/28/2023	0.00 ug/L
Standard #1 / PQL	09/28/2023	09/28/2023	0.20 ug/L
Standard #2	09/28/2023	09/28/2023	0.50 ug/L
Standard #3	09/28/2023	09/28/2023	1.00 ug/L
Standard #4 / CCV	09/28/2023	09/28/2023	5.00 ug/L
Standard #5	09/28/2023	09/28/2023	10.00 ug/L
ICV	09/28/2023	09/28/2023	6.00 ug/L

Additional Comments and Notes:

RPD Value(s):

9/29/23

Dilutions/Spiking:

INSTRUMENT RUNLOG

Instrument: TELEDYNE M7600

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
Calibration Blank	1	MQI28B	09/28/2023	13:50	CD
Standard #1 (0.2 ug/L)	1	MQI28B	09/28/2023	13:53	CD
Standard #2 (0.5ug/L)	1	MQI28B	09/28/2023	13:55	CD
Standard #3 (1.0 ug/L)	1	MQI28B	09/28/2023	13:58	CD
Standard #4 (5.0 ug/L)	1	MQI28B	09/28/2023	14:00	CD
Standard #5 (10.0 ug/L)	1	MQI28B	09/28/2023	14:03	CD
ICV	1	MQI28B	09/28/2023	14:06	CD
ICB	1	MQI28B	09/28/2023	14:09	CD
PQL	1	MQI28B	09/28/2023	14:11	CD
CCV	1	MQI28B	09/28/2023	14:14	CD
CCB	1	MQI28B	09/28/2023	14:16	CD
LCSWQI26HGW1	1	MQI28B	09/28/2023	14:19	CD
LCSWQI26HGW2	1	MQI28B	09/28/2023	14:22	CD
LC2WQI26HGW1	1	MQI28B	09/28/2023	14:24	CD
LC2WQI26HGW2	1	MQI28B	09/28/2023	14:27	CD
PBWQI26HGW1	1	MQI28B	09/28/2023	14:29	CD
PBWQI26HGW2	1	MQI28B	09/28/2023	14:32	CD
SQ4965-001	1	MQI28B	09/28/2023	14:34	CD
SQ4965-001N	1	MQI28B	09/28/2023	14:37	CD
SQ4965-001O	1	MQI28B	09/28/2023	14:39	CD
SQ4965-002	1	MQI28B	09/28/2023	14:42	CD
CCV	1	MQI28B	09/28/2023	14:44	CD
CCB	1	MQI28B	09/28/2023	14:47	CD
SQ4965-003	1	MQI28B	09/28/2023	14:49	CD
SQ4965-004	1	MQI28B	09/28/2023	14:52	CD
SQ5008-001	1	MQI28B	09/28/2023	14:55	CD
SQ5040-001	1	MQI28B	09/28/2023	14:57	CD
SQ5041-001	1	MQI28B	09/28/2023	15:00	CD
SQ5115-001	1	MQI28B	09/28/2023	15:02	CD
SQ5115-002	1	MQI28B	09/28/2023	15:05	CD
SQ5115-003	1	MQI28B	09/28/2023	15:07	CD
SQ5115-005	1	MQI28B	09/28/2023	15:10	CD
SQ5115-008	1	MQI28B	09/28/2023	15:12	CD
CCV	1	MQI28B	09/28/2023	15:15	CD
CCB	1	MQI28B	09/28/2023	15:17	CD
SQ5115-009	1	MQI28B	09/28/2023	15:20	CD
SQ5115-010	1	MQI28B	09/28/2023	15:22	CD
SQ5115-011	1	MQI28B	09/28/2023	15:25	CD
LCSWQI28HGW1	1	MQI28B	09/28/2023	15:28	CD
PBWQI28HGW1	1	MQI28B	09/28/2023	15:30	CD
PBT1813A	1	MQI28B	09/28/2023	15:33	CD
PBT1814A	1	MQI28B	09/28/2023	15:35	CD
SQ5080-002	1	MQI28B	09/28/2023	15:38	CD
SQ5080-002N	1	MQI28B	09/28/2023	15:40	CD

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
SQ5080-002O	1	MQI28B	09/28/2023	15:43	CD
CCV	1	MQI28B	09/28/2023	15:45	CD
CCB	1	MQI28B	09/28/2023	15:48	CD
SQ5080-003	1	MQI28B	09/28/2023	15:50	CD
SQ5108-001	1	MQI28B	09/28/2023	15:53	CD
SQ5109-001	1	MQI28B	09/28/2023	15:56	CD
SQ5109-001N	1	MQI28B	09/28/2023	15:58	CD
SQ5109-001O	1	MQI28B	09/28/2023	16:01	CD
SQ5102-001	1	MQI28B	09/28/2023	16:03	CD
SQ5102-002	1	MQI28B	09/28/2023	16:06	CD
SQ5102-003	1	MQI28B	09/28/2023	16:08	CD
SQ5102-004	1	MQI28B	09/28/2023	16:11	CD
SQ5102-005	1	MQI28B	09/28/2023	16:13	CD
CCV	1	MQI28B	09/28/2023	16:16	CD
CCB	1	MQI28B	09/28/2023	16:18	CD
SQ5102-006	1	MQI28B	09/28/2023	16:21	CD
CCV	1	MQI28B	09/28/2023	16:23	CD
CCB	1	MQI28B	09/28/2023	16:26	CD

Katahdin Analytical Services

Report Generated By Teledyne Leeman QuickTrace

Analyst: M-7600

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\MQI28B.wszf

Creation Date: 9/28/2023 1:47:52 PM

Comment:

Results

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual Flags	DF	% Recovery
Calibration Blank				STD	09/28/23 01:50:40 pm	0.000	-43	14.75		1.00	N/A
Replicates	-35.3	-42.6	-42.2	-50.7							
Standard #1 (0.2 ug/L)				STD	09/28/23 01:53:12 pm	0.200	1351	0.71	4.64%	1.00	N/A
Replicates	1364.0	1347.9	1350.3	1340.9							
Standard #2 (0.5ug/L)				STD	09/28/23 01:55:44 pm	0.500	3374	0.91	2.61%	1.00	N/A
Replicates	3384.2	3404.0	3375.2	3331.1							
Standard #3 (1.0 ug/L)				STD	09/28/23 01:58:17 pm	1.000	6552	0.73	-0.97%	1.00	N/A
Replicates	6489.5	6579.4	6597.9	6539.7							
Standard #4 (5.0 ug/L)				STD	09/28/23 02:00:49 pm	5.000	33245	0.52	-0.02%	1.00	N/A
Replicates	33204.8	33406.7	33346.2	33020.8							
Standard #5 (10.0 ug/L)				STD	09/28/23 02:03:22 pm	10.000	66550	0.77	0.01%	1.00	N/A
Replicates	66782.0	66948.7	66663.3	65804.4							

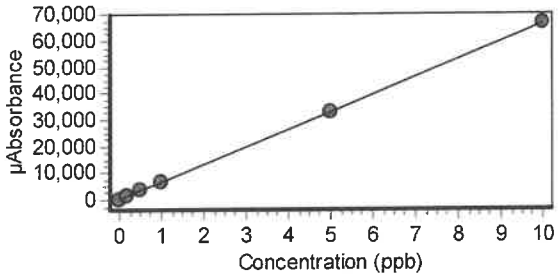
Calibration

Equation: Abs = 6658.813x + -42.738

R2: 0.99999 RSE: 3.12%

SEE: 72.0979

Flags:



ICV				ICV	09/28/23 02:06:48 pm	6.090	40477	0.78		1.00	101.42
Replicates	40581.5	40749.7	40554.3	40022.1							
ICB				ICB	09/28/23 02:09:19 pm	0.005	-8	49.44		1.00	N/A
Replicates	-1.8	14.2	-21.9	-21.3							
PQL				CRDL	09/28/23 02:11:52 pm	0.214	1379	1.74		1.00	106.76
Replicates	1395.8	1393.8	1384.0	1342.7							
CCV				CCV	09/28/23 02:14:24 pm	5.090	33837	1.04		1.00	101.76
Replicates	34107.3	34090.5	33796.7	33351.9							
CCB				CCB	09/28/23 02:16:56 pm	0.005	-10	29.55		1.00	N/A
Replicates	-18.6	-3.3	0.8	-17.3							
LCSWQI26HGW1				LCS	09/28/23 02:19:28 pm	5.010	33342	0.59		1.00	100.27
Replicates	33378.3	33514.1	33416.8	33057.5							

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags	DF	% Recovery
LCSWQI26HGW2				LCS	09/28/23 02:22:00 pm	5.000	33230	0.50			1.00	99.94
Replicates	33175.9	33394.7	33327.9	33021.1								
LC2WQI26HGW1				LCS	09/28/23 02:24:31 pm	5.150	34241	0.60			1.00	102.97
Replicates	34234.2	34438.6	34330.7	33958.8								
LC2WQI26HGW2				LCS	09/28/23 02:27:04 pm	5.150	34257	0.77			1.00	103.02
Replicates	34384.5	34458.6	34314.9	33869.5								
PBWQI26HGW1				PBK	09/28/23 02:29:36 pm	0.029	149	8.82			1.00	N/A
Replicates	138.9	164.5	131.1	163.2								
PBWQI26HGW2				PBK	09/28/23 02:32:08 pm	0.037	202	1.86			1.00	N/A
Replicates	207.8	203.0	197.2	199.7								
SQ4965-001				UNK	09/28/23 02:34:41 pm	0.035	190	3.80			1.00	N/A
Replicates	179.3	188.9	200.9	190.5								
SQ4965-001N				UNK	09/28/23 02:37:14 pm	1.640	10910	0.50			1.00	N/A
Replicates	10881.2	10933.9	10975.2	10851.5								
SQ4965-001O				UNK	09/28/23 02:39:47 pm	1.660	11029	0.46			1.00	N/A
Replicates	10976.5	11069.1	11077.5	10994.1								
SQ4965-002				UNK	09/28/23 02:42:20 pm	0.030	159	1.63			1.00	N/A
Replicates	162.3	157.9	161.1	155.0								
CCV				CCV	09/28/23 02:44:52 pm	4.990	33213	0.51			1.00	99.88
Replicates	33098.4	33356.0	33359.7	33037.1								
CCB				CCB	09/28/23 02:47:24 pm	0.009	18	15.24			1.00	N/A
Replicates	16.4	6.5	19.0	28.9								
SQ4965-003				UNK	09/28/23 02:49:57 pm	0.034	182	6.50			1.00	N/A
Replicates	196.2	175.6	190.8	164.1								
SQ4965-004				UNK	09/28/23 02:52:30 pm	0.035	190	3.54			1.00	N/A
Replicates	184.3	197.1	180.7	195.9								
SQ5008-001				UNK	09/28/23 02:55:02 pm	0.051	294	0.61			1.00	N/A
Replicates	291.9	296.7	293.6	293.1								
SQ5040-001				UNK	09/28/23 02:57:34 pm	0.025	126	3.95			1.00	N/A
Replicates	132.3	126.2	116.6	128.1								
SQ5041-001				UNK	09/28/23 03:00:08 pm	0.033	174	6.39			1.00	N/A
Replicates	171.3	156.5	189.7	177.9								
SQ5115-001				UNK	09/28/23 03:02:40 pm	0.034	183	2.23			1.00	N/A
Replicates	189.4	182.1	177.2	183.2								
SQ5115-002				UNK	09/28/23 03:05:12 pm	0.033	179	3.00			1.00	N/A
Replicates	180.0	180.9	185.0	169.4								
SQ5115-003				UNK	09/28/23 03:07:44 pm	0.033	177	9.55			1.00	N/A
Replicates	152.3	195.9	166.2	192.3								

Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual Flags	DF	% Recovery
SQ5115-005		UNK	09/28/23 03:10:17 pm	0.039	217	1.75		1.00	N/A
Replicates	217.9	210.9	221.1	219.8					
SQ5115-008		UNK	09/28/23 03:12:49 pm	0.044	254	2.38		1.00	N/A
Replicates	262.6	246.4	250.3	256.2					
CCV		CCV	09/28/23 03:15:22 pm	5.020	33366	0.57		1.00	100.34
Replicates	33364.9	33538.5	33458.0	33102.1					
CCB		CCB	09/28/23 03:17:54 pm	0.006	-5	5.56		1.00	N/A
Replicates	-3.9	-4.9	-2.5	-7.5					
SQ5115-009		UNK	09/28/23 03:20:27 pm	0.038	208	4.47		1.00	N/A
Replicates	206.0	208.6	223.1	195.9					
SQ5115-010		UNK	09/28/23 03:22:59 pm	0.037	203	3.74		1.00	N/A
Replicates	213.0	202.3	190.8	205.4					
SQ5115-011		UNK	09/28/23 03:25:32 pm	0.034	180	4.66		1.00	N/A
Replicates	187.8	190.2	172.5	169.9					
LCSWQI28HGW1		LCS	09/28/23 03:28:06 pm	5.110	34001	0.72		1.00	102.25
Replicates	34081.4	34176.4	34104.9	33640.2					
PBWQI28HGW1		PBK	09/28/23 03:30:37 pm	0.008	13	23.55		1.00	N/A
Replicates	2.3	24.7	25.1	1.7					
PBT1813A		UNK	09/28/23 03:33:10 pm	0.010	23	20.70		1.00	N/A
Replicates	11.4	25.1	14.0	41.3					
PBT1814A		UNK	09/28/23 03:35:41 pm	0.012	35	7.99		1.00	N/A
Replicates	41.9	38.7	29.9	29.7					
SQ5080-002		UNK	09/28/23 03:38:13 pm	0.014	50	9.53		1.00	N/A
Replicates	58.9	46.0	39.1	54.5					
SQ5080-002N		UNK	09/28/23 03:40:46 pm	1.860	12364	0.47		1.00	N/A
Replicates	12292.6	12411.8	12413.2	12339.4					
SQ5080-002O		UNK	09/28/23 03:43:18 pm	1.830	12156	0.45		1.00	N/A
Replicates	12087.5	12187.1	12210.6	12137.9					
CCV		CCV	09/28/23 03:45:51 pm	5.020	33354	0.62		1.00	100.31
Replicates	33350.9	33549.4	33446.8	33067.3					
CCB		CCB	09/28/23 03:48:22 pm	0.003	-26	35.73		1.00	N/A
Replicates	-24.8	-33.7	-19.1	-26.1					
SQ5080-003		UNK	09/28/23 03:50:55 pm	0.014	52	5.07		1.00	N/A
Replicates	47.6	48.4	53.1	58.0					
SQ5108-001		UNK	09/28/23 03:53:27 pm	0.012	39	10.02		1.00	N/A
9 Replicates	32.1	48.1	31.6	42.9					
SQ5108-001		UNK	09/28/23 03:56:00 pm	0.012	37	16.61		1.00	N/A
8 Replicates	27.7	43.3	24.6	52.7					

Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual Flags	DF	% Recovery
SQ5108-001N		UNK	09/28/23 03:58:33 pm	1.920	12754	0.46		1.00	N/A
Replicates	12693.1	12781.8	12822.4	12717.4					
SQ5108-001O		UNK	09/28/23 04:01:06 pm	1.880	12469	0.44		1.00	N/A
Replicates	12397.3	12476.9	12530.5	12472.8					
SQ5102-001		UNK	09/28/23 04:03:39 pm	0.009	15	31.08		1.00	N/A
Replicates	15.3	-8.4	19.6	35.3					
SQ5102-002		UNK	09/28/23 04:06:11 pm	0.013	42	10.93		1.00	N/A
Replicates	48.4	31.3	37.7	51.2					
SQ5102-003		UNK	09/28/23 04:08:43 pm	0.014	48	11.29		1.00	N/A
Replicates	54.8	36.2	58.6	43.7					
SQ5102-004		UNK	09/28/23 04:11:15 pm	0.012	37	7.90		1.00	N/A
Replicates	36.8	27.7	41.9	39.8					
SQ5102-005		UNK	09/28/23 04:13:47 pm	0.012	35	12.95		1.00	N/A
Replicates	33.4	34.0	23.7	48.1					
CCV		CCV	09/28/23 04:16:19 pm	4.970	33061	0.56		1.00	99.43
Replicates	32885.4	33215.6	33227.3	32917.2					
CCB		CCB	09/28/23 04:18:51 pm	0.003	-20	31.32		1.00	N/A
Replicates	-20.0	-11.7	-19.3	-29.1					
SQ5102-006		UNK	09/28/23 04:21:23 pm	0.014	49	9.78		1.00	N/A
Replicates	42.8	41.7	50.3	61.2					
CCV		CCV	09/28/23 04:23:55 pm	4.960	32960	0.49		1.00	99.13
Replicates	32874.5	33106.7	33084.4	32776.1					
CCB		CCB	09/28/23 04:26:27 pm	0.002	-32	159.49		1.00	N/A
Replicates	-15.0	-28.3	-29.6	-55.6					

Logbooks and Supporting Documents

Katahdin Analytical Services, Inc. | **Metals Preparation Benchsheet**

Reagents and Consumables Information: | **Method:** 7470

HNO3: MSR300 H2SO4: MSR305 Digestion Vessles: MP8520

KMNO4: MR37162 K2S2O8: MR36079 NH2OH-HCl: MR3752

Standards/Spiking Information:

1ppm A : MW21726

Pipet 1ppm B : MW21727

M33 LCSW = 125uL of 1ppm A to 25mL

D Spike(S/P) = 25uL of 1ppm A to 25mL

M35 ICV = 600uL of 1ppm B to 100 mL

D S10.0 = 1000uL of 1ppm A to 100 mL

Heat Source ID : D

Start Time: 12:27 /Temp. 95 °C

End Time: 14:27 /Temp. 98 °C

Thermometer ID/Pos: AIC44 / 4,4

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Bottle	pH <2
LCSWQI28HGW1	QI28HGW1	0.025	L	0.025	L	AQ	HG	CD	09/28/2023	VA	✓
PBT1813A	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
PBT1814A	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
PBWQI28HGW1	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5080-002	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5080-002N	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5080-002O	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5080-003	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5102-001	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5102-002	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5102-003	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5102-004	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5102-005	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5102-006	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5108-001	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5109-001	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5109-001N	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		
SQ5109-001O	QI28HGW1		L		L	AQ	HG	CD	09/28/2023		

EC 092923

REVIEWED
EC 092923
KATAHDIN ANALYTICAL
METALS SECTION

Katahdin Analytical Services, Inc.

Reagents and Consumables Information:

Metals Preparation Benchsheet

Method: 3010

HNO3: MS2327 HCL: MS2389 Digestion Vessels: MCD0030000147

1:1 HNO3: MR3758 1:1 HCL: MR3764

Pipet	LCS/Spiking Information:
M35	CLPP-SPK-1 (ID/Vol): MS2479 / 0.05 mL
M35	CLPP-SPK-INT1 (ID/Vol): MW21719 / 0.5 mL
M35	CLPP-SPK-INT2 (ID/Vol): MW2120 / 0.5 mL
-	- Spike (ID/Vol): - / - mL

Heat Source ID : B
Start Time: 1003 /Temp. 92 °C
End Time: 1555 /Temp. 90 °C
Thermometer ID/Pos: IR1C44 / 2,7

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Bottle	pH <2
LCSWQI28ICW2	QI28ICW2	0.05	L	0.05	L	AQ	IC	CD	09/28/2023	-	✓
PBT1813A	QI28ICW2	0.01	L		L	AQ	IC	CD	09/28/2023	-	
PBT1814A	QI28ICW2	d	L		L	AQ	IC	CD	09/28/2023	-	
PBWQI28ICW2	QI28ICW2	0.05	L		L	AQ	IC	CD	09/28/2023	-	
SQ5041-001	QI28ICW2	d	L		L	AQ	IC	CD	09/28/2023	D	
SQ5080-002	QI28ICW2	0.01	L		L	AQ	IC	CD	09/28/2023	V/A	
SQ5080-002N	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5080-002O	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5080-003	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5102-001	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5102-002	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5102-003	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5102-004	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5102-005	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5102-006	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5108-001	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5109-001	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5109-001N	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5109-001O	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5170-001	QI28ICW2	0.05	L		L	AQ	IC	CD	09/28/2023	D	
SQ5170-002	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5170-003	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		
SQ5170-004	QI28ICW2		L		L	AQ	IC	CD	09/28/2023		

Ea 092923

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Ea 092923
KATAHDIN ANALYTICAL
METALS SECTION

Digestion performed by: KS/CD On: 9-28-23

KATAHDIN ANALYTICAL SERVICES, LLC. Non-Volatile TCLP/SPLP Extraction Log

I. EXTRACTION CONDITIONS

Extraction Method:	SW846 1311 (TCLP) ☐ SW846 1312 (SPLP) ☐		Balance ID: BAL-09	Rotary Extractor ID:		
			pH Probe ID:	pH Meter ID: Fisher AB315 S/N A11928		
Solid pH Determination:	Date:	Analyst:	Room Thermometer ID:	(Room Temp Criteria. 23(±2)°C)		
Rotary Extraction Started:	Date:	Time:	Analyst:	RoomTemp(°C):	Start:	End:
Rotary Extraction Completed:	Date:	Time:	Analyst:	Room Temp (°C):	Min.	Max.
Extraction Filtered:	Date:	Time:	Analyst:	Filter Lot #: 6000191992		
Elapsed Extraction Time (HH:MM):		5% HNO_3 ID (used to wash filters): MB3749 MS2327		HNO_3 Lot # (used to preserve extracts): MS2387		
Fluid 1 pH (Day of use):		Fluid 1 Expiration Date: OD 10.25		Rotary Extractor Rotation Rate Checked?		
Fluid 2 pH (Day of use):		Fluid 2 Expiration Date:		Criteria. 30 ± 2 RPM		

II. EXTRACTION SETUP

TCLP Fluid pH: #1 - 4.93 ± 0.05 #2 - 2.88 ± 0.05 SPLP Fluid pH: #1 - 4.20 ± 0.05 #2 - 5.00 ± 0.05

Katahdin Sample No. (include bottle ID)	Matrix	Check One: 100% Wet Solids- waste will yield no liquid upon filtration	Check One: < 100% Wet Solids (Perform Solids Determination below)	SPLP FLUID # (1 for east and 2 for west of Mississippi River)	TCLP pH Determination and Fluid Selection (date & init. above): Initial pH of solid phase: (if <5, use Fluid #1; if >5 add 3.5 mL of 1 N HCl)	TCLP pH Determination and Fluid Selection (date & init. above): pH after 1 N HCL addition (if <5, use Fluid #1; if >5, use Fluid #2	Extraction Setup: Volume of Extraction Fluid (mL)	Extraction Setup: Fluid # used	Extraction Setup: Associated Extraction Blank ID:	Extraction Setup: Weight of Waste (g)	pH of extract after extraction:	Extract to be analyzed for: Metals (M), SVOA (S), PEST (P), HERB (H), Cyanide (C)	Extraction Bottle ID (if applicable)

OD 9.27.23

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III. SOLIDS DETERMINATION

Date AQ Filtered: 9-27-23

Katahdin Sample No. (include bottle ID)	AQ or SL	Time Flt'd	A Weight of filter (g)	B Weight of filtrate vessel (g)	C Weight of weigh boat + waste (g)	D Weight of weigh boat + residue (g)	E Weight of waste (C-D) (g)	F Weight of filtrate vessel + filtrate (g)	G Weight of liquid phase (F-B) (g)	H Percent wet solids [(E-G)/E x 100%]	I Weight of filter + dry solids (g)	J Weight of dry solids (I-A) (g)	K Percent dry solids (J/E x 100%)
SQ5108-IJ CD 9-27	AQ	1230	1.20	15.46	120.62	14.73	105.89	118.36	102.90	2.82	1.22	0.02	0.02%

IV. PHASE SEPARATION

Katahdin Sample No. (include bottle ID)	Matrix	Percent dry solids [1] <0.5%	Percent dry solids [1] >0.5%	L Weight of filtrate vessel (g)	M Weight of weigh boat + waste (g)	N Weight of weigh boat + residue (g)	O Weight of waste (M-N) (g)	P Weight of filtrate vessel + filtrate (g)	Q Weight of liquid phase (P-L) (g)	R Volume of liquid phase (mL) [2]	S Weight of wet solids (O - Q) (g)
										CD 9-27-23	

1) If dry solids is <0.5%, filter sufficient volume of waste to support all required analyses. If dry solids >0.5% and wet solids <100%, perform phase separation (steps L – S above).

2) If miscible, proportionately combine pre-extraction filtrate with rotary extract. If not miscible, analyze aliquots separately and mathematically combine results.

V. COMMENTS:

CD 9-27-23

Reviewed By_____ Date_____

ME-001 – Revision 8 – 05/03/2023

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CONVENTIONAL AND PHYSICAL ANALYTICAL DATA

QC Summary Section

Quality Control Report

Blank Sample Summary Report

Cyanide, Reactive

QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	Units	LOQ	MDL	LOD
WG343424	SW846 7.3.3	02-OCT-23	28-SEP-23	U10.	mg/Kg	20.	5.0	10.

Ignitability

QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	Units	LOQ	MDL	LOD
WG343570	SW846 1010A	05-OCT-23	N/A	>71.	Deg. C	71.	71.	N/A

Sulfide, Reactive

QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	Units	LOQ	MDL	LOD
WG343274	SW846 7.3.4	28-SEP-23	28-SEP-23	U40	mg/Kg	50.	20.	40

Quality Control Report

Laboratory Control Sample Summary Report

Cyanide, Reactive

Laboratory Sample ID	Sample Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amount	Result	Recovery (%)	Acceptance Range	RPD
WG343424-2	LCS	WG343424	02-OCT-23	28-SEP-23	mg/Kg	20	U 40.	74	0-100	
WG343424-3	LCSD	WG343424	02-OCT-23	28-SEP-23	mg/Kg	20	U 30.	48	0-100	42*

Ignitability

Laboratory Sample ID	Sample Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amount	Result	Recovery (%)	Acceptance Range	RPD
WG343570-2	LCS	WG343570	05-OCT-23	N/A	Deg. C	27	25.	92	80-120	
WG343570-3	LCSD	WG343570	05-OCT-23	N/A	Deg. C	27	25.	92	80-120	0

Sulfide, Reactive

Laboratory Sample ID	Sample Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amount	Result	Recovery (%)	Acceptance Range	RPD
WG343274-2	LCS	WG343274	28-SEP-23	28-SEP-23	mg/Kg	776.98	540	70	30-120	
WG343274-3	LCSD	WG343274	28-SEP-23	28-SEP-23	mg/Kg	776.98	560	72	30-120	3

pH(Laboratory)

Laboratory Sample ID	Sample Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amount	Result	Recovery (%)	Acceptance Range	RPD
WG343148-1	LCS	WG343148	26-SEP-23	N/A	pH	7	7.0	100	80-120	
WG343148-2	LCSD	WG343148	26-SEP-23	N/A	pH	7	7.0	100	80-120	0

Sample Data Section

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client. Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 Please refer to cover letter or narrative for further information.

H_ Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit	NOD	No Odor Detected
NFL	No Free Liquid Present	FLP	Free Liquid Present	TON	Threshold Odor Number

D-1 As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

D-4 The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

D-5 The seed control factor did not meet the method criteria of greater than 2.0 mg/L of dissolved oxygen (DO) uptake over the five day period of incubation. The dilution closest to meeting the criteria was used to estimate the seed control factor.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Lab Sample ID: SQ5108-1
Client ID: DOW-AQWC-01
SDG: SQ5108
Report Date: 17-OCT-23

Matrix	Date Sampled	Date Received
AQ	21-SEP-23 10:00	21-SEP-23

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Cyanide, Reactive	U10. mg/Kg	20.	5.0	10.	SW846 7.3.3	WG343424	02-OCT-23 15:40	SW846 7.3.4	28-SEP-23	
Ignitability	>71. Deg. C	71.	71.	N/A	SW846 1010A	WG343570	05-OCT-23 11:46	N/A	N/A	
Sulfide, Reactive	U40 mg/Kg	50.	20.	40	SW846 7.3.4	WG343274	28-SEP-23 15:19	SW846 7.3.4	28-SEP-23	
pH(Laboratory)	12.0 pH	0.10	0.10	N/A	SW846 9040C	WG343148	26-SEP-23 14:47	N/A	N/A	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
http://www.katahdinlab.com

Raw Data Section

WET CHEMISTRY BATCH REPORT
Sep 27 2023, 09:37 am
Batch: WG343147 Run ID 1: R623814 Run ID 2: NONE

Parameter: pH(Soil)

Prep Date: 25-SEP-23

Date Analyzed: 26-SEP-23

Prep Method: SW846 9045D

Analyst Initials: BL

Prep Chemist: BL

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ4965-1	SAMP	SW846 9045D	20g	20mL	1	9.09	9.1 pH	64.	.1	0.10	0.10		
SQ4965-2	SAMP	SW846 9045D	20g	20mL	1	8.37	8.4 pH	66.	.1	0.10	0.10		
SQ4965-3	SAMP	SW846 9045D	20g	20mL	1	9.54	9.5 pH	54.	.1	0.10	0.10		
SQ4965-4	SAMP	SW846 9045D	20g	20mL	1	9.75	9.8 pH	51.	.1	0.10	0.10		
SQ5102-1	SAMP	SW846 9045D	20g	20mL	1	6.79	6.8 pH	63.	.1	0.10	0.10		
SQ5102-2	SAMP	SW846 9045D	20g	20mL	1	6.8	6.8 pH	62.	.1	0.10	0.10		
SQ5102-3	SAMP	SW846 9045D	20g	20mL	1	6.8	6.8 pH	66.	.1	0.10	0.10		
SQ5102-4	SAMP	SW846 9045D	20g	20mL	1	6.51	6.5 pH	60.	.1	0.10	0.10		
SQ5102-5	SAMP	SW846 9045D	20g	20mL	1	6.75	6.8 pH	66.	.1	0.10	0.10		
SQ5102-6	SAMP	SW846 9045D	20g	20mL	1	6.63	6.6 pH	63.	.1	0.10	0.10		
WG343147-1	LCS	SW846 9045D	20g	20mL	1	6.98	7.0 pH	NA	.1	0.10	0.10		100
WG343147-2	LCSD	SW846 9045D	20g	20mL	1	6.99	7.0 pH	NA	.1	0.10	0.10	0	100

Comments:

WG343147-1 SQ4965-1
WG343147-2 SQ4965-1

Entered by: BL Date: 9/27/23 Accepted by: RAD Date: 9/27/23

Kalabdin Analytical Services SQ5108 Page 610 of 640

WET CHEMISTRY BATCH REPORT
Sep 27 2023, 09:37 am
Batch: WG343148 Run ID 1: R623815 Run ID 2: NONE

Parameter: pH(Laboratory)

Prep Date: N/A

Date Analyzed: 26-SEP-23

Prep Method: N/A

Analyst Initials: BL

Prep Chemist: N/A

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5108-1	SAMP	SW846 9040C	20.000mL	20.000mL	1	11.95	12.0 pH	NA	.1	0.10	0.10		
WG343148-1	LCS	SW846 9040C	20.000mL	20.000mL	1	6.98	7.0 pH	NA	.1	0.10	0.10		100
WG343148-2	LCSD	SW846 9040C	20.000mL	20.000mL	1	6.99	7.0 pH	NA	.1	0.10	0.10	0	100

Comments:

WG343148-1 SQ5108-1
WG343148-2 SQ5108-1

Entered by: BL Date: 9/27/23 Accepted by: RAD Date: 9/27/23

KATAHDIN ANALYTICAL SERVICES

(SL) WG343147 → R623814 (AQ) WG343148 → R623815

pH ELECTROMETRIC

pH meter: Orion Star A215 Serial Number: X77698 Probe ID:

EPA: 150.1____ SM 4500H- B____ SW846 9040C X SW846 9045D X

CALIBRATION STDS:	CALIBRATED TO:	LOT NO:
pH 2.00	2.00	SWL 5077
pH 4.00	4.01	5055
pH 7.00	7.01	5068
pH 10.00	10.00	5056
pH 12.46	12.46	5018

SAMPLE ID	SITE ID	TIME OF ANALYSIS	SAMPLE TEMP °C	pH	AQ or SL	NOTES
CCV		14:47	21.4	7.03	AQ	
LCS			21.2	6.98	"	
LCSD			21.5	6.99	"	
SQ4965-1			17.7	9.09	SL	
-2			17.7	8.37		
-3			17.9	9.54		
-4			17.8	9.75		
SQ102-1			18.3	6.79		
-2			18.1	6.80		
-3			18.7	6.80		
-4			18.6	6.51	"	
CCV			20.8	7.02	AQ	
SQ5102-5			18.9	6.75	SL	
-6			18.9	6.63	"	
S108-1	BL 9/27/23		8.4	11.95	AQ	
CCV			20.6	7.04	"	
						BL 9/27/23

ANALYST: BL DATE: 9/26/23

CHECKED BY: RAD DATE: 9/27/23

KATAHDIN ANALYTICAL SERVICES

SOIL PREPARATION BY METHOD E300

Balance ID: Bal 20 Pipette ID(s) AUTO

PREP TIME	SAMPLE ID	WEIGHT (g)	TOTAL H20 ADDED(ml)	ANALYSIS REQUESTED	SPIKE ADDED
	BLANK				BL 9/25/23
	LCS				9/25/23 BL
13:22	SQ4965-1	30.279	30	pH	
	-2	30.721			
	-3	30.140			
	-4	30.173			
	S102-1	20.081	20		
	-2	30.020	30		
	-3	30.030			
	-4	30.525			
	-5	30.479			
	-6	30.496			
	S102-1	20.860	40		NOT USED
	-3	30.153	60		
	-5	30.292			
					BL 9/27/23

NOTES:

ANALYST: BL DATE: 9/25/23

CHECKED BY: RAD DATE: 9/27/23

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 12:05 pm
Batch: WG343273 Run ID 1: R624154 Run ID 2: NONE

Parameter: Sulfide, Reactive
Prep Date: 28-SEP-23

Date Analyzed: 28-SEP-23
Prep Method: SW846 7.3.4

Analyst Initials: JRS
Prep Chemist: JRS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5208-1	SAMP	SW846 7.3.4	9.8950g	190.00mL	1	-.31	U50. mg/Kg	NA	50	16.39	50.		
WG343273-1	MBLANK	SW846 7.3.4	10.000g	190.00mL	1	.01	U25. mg/Kg	NA	50	16.39	50.		
WG343273-2	LCS	SW846 7.3.4	10.000g	190.00mL	1	4.06	540 mg/Kg	NA	50	16.39	50.		70
WG343273-3	LCSD	SW846 7.3.4	10.000g	190.00mL	1	4.18	560 mg/Kg	NA	50	16.39	50.	3	72

Comments:

WG343273-1	SQ5208-1
WG343273-2	SQ5208-1
WG343273-3	SQ5208-1

Entered by: JRS Date: 10/3/23 Accepted by: SS Date: 10/3/23

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 12:05 pm
Batch: WG343274 Run ID 1: R624155 Run ID 2: NONE

Parameter: Sulfide, Reactive
Prep Date: 28-SEP-23

Date Analyzed: 28-SEP-23
Prep Method: SW846 7.3.4

Analyst Initials: JRS
Prep Chemist: JRS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5108-1	SAMP	SW846 7.3.4	10.028g	190.00mL	1	0	U40 mg/Kg	NA	50	20.	50.		
WG343274-1	MBLANK	SW846 7.3.4	10.000g	190.00mL	1	.01	U40 mg/Kg	NA	50	20.	50.		
WG343274-2	LCS	SW846 7.3.4	10.000g	190.00mL	1	4.06	540 mg/Kg	NA	50	20.	50.		70
WG343274-3	LCSD	SW846 7.3.4	10.000g	190.00mL	1	4.18	560 mg/Kg	NA	50	20.	50.	3	72

Comments:

WG343274-1	SQ5108-1
WG343274-2	SQ5108-1
WG343274-3	SQ5108-1

Entered by: JRS Date: 10/3/23 Accepted by: SS Date: ~~10/3/23~~ 10/3/23 10/3/23 SS

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 12:06 pm
Batch: WG343275 Run ID 1: R624156 Run ID 2: NONE

Parameter: Sulfide, Reactive
Prep Date: 28-SEP-23

Date Analyzed: 28-SEP-23
Prep Method: SW846 7.3.4

Analyst Initials: JRS
Prep Chemist: JRS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5209-1	SAMP	SW846 7.3.4	10.578g	190.00mL	.94	.33	J42. mg/Kg	84.	50	16.39	50		
WG343275-1	MBLANK	SW846 7.3.4	10.000g	190.00mL	1	.02	U25. mg/Kg	NA	50	16.39	50.		
WG343275-2	LCS	SW846 7.3.4	10.000g	190.00mL	1	3.87	520 mg/Kg	NA	50	16.39	50.		67
WG343275-3	LCSD	SW846 7.3.4	10.000g	190.00mL	1	3.6	480 mg/Kg	NA	50	16.39	50.	7	62

Comments:

WG343275-1	SQ5209-1
WG343275-2	SQ5209-1
WG343275-3	SQ5209-1

Entered by: JRS Date: 10/3/23 Accepted by: SS Date: 10/3/23

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 12:06 pm
Batch: WG343276 Run ID 1: R624157 Run ID 2: NONE

Parameter: Sulfide, Reactive

Prep Date: 28-SEP-23

Date Analyzed: 28-SEP-23

Prep Method: SW846 7.3.4

Analyst Initials: JRS

Prep Chemist: JRS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5109-1	SAMP	SW846 7.3.4	10.628g	190.00mL	.94	.05	U40 mg/Kg	NA	50	20	50		
WG343276-1	MBLANK	SW846 7.3.4	10.000g	190.00mL	1	.02	U40 mg/Kg	NA	50	20.	50.		
WG343276-2	LCS	SW846 7.3.4	10.000g	190.00mL	1	3.87	520 mg/Kg	NA	50	20.	50.		67
WG343276-3	LCSD	SW846 7.3.4	10.000g	190.00mL	1	3.6	480 mg/Kg	NA	50	20.	50.	7	62

Comments:

WG343276-1	SQ5109-1
WG343276-2	SQ5109-1
WG343276-3	SQ5109-1

Entered by: JRS Date: 10/3/23 Accepted by: SS Date: 10/3/23

REACTIVE SULFIDES
TITRIMETRIC

EPA: 7.3.4.2/9030
PQL = 50 mg/kg

DATE:	9/28/2023
ANALYST:	JRS

STANDARDIZATION OF IODINE SOLUTION

VOL (mL) I_2	VOL (mL) $Na_2S_2O_3$
10.00	6.600
10.00	6.580
10.00	6.610
Mean $Na_2S_2O_3$=	**6.60**

CALC I_2 N =	**0.02474**

STANDARDIZATION OF SODIUM SULFIDE STANDARD

VOL (mL) I_2	VOL (mL) NA_2S	VOL (mL) $Na_2S_2O_3$
10.00	2.00	4.180
10.00	2.00	4.150
10.00	2.00	4.130
Mean Vol $Na_2S_2O_3$=		**4.15**

CALC NA_2S (mg H_2S/L):	**776.98**

$Na_2S_2O_3$ Normality:	**0.0375**

Sample ID	Sample Wt. (g)	Trap Vol. (mL)	Analysis Vol. (mL)	Volume I_2 Added (mL)	Volume $Na_2S_2O_3$ Added (mL)	Extraction Time (sec)	Calc. Sulfide (as S) in Analysis Aliquot (mg)	Releasable H_2S in Smpl. (mg/kg)	Recovery (%)	Duplicate RPD (%)
BLK	10.000	190.00	150.00	10.00	6.580	1800.00	0.01	1.35		
LCS	10.000	190.00	150.00	25.00	9.740	1800.00	4.06	546.48	70.3	
LCSD	10.000	190.00	150.00	25.00	9.540	1800.00	4.18	562.66	72	
SQ5208-1	9.895	190.00	150.00	10.00	7.120	1800.00	-0.31	-42.81		
SQ5108-1	10.028	190.00	150.00	10.00	6.600	1800.00	0.00	-0.27	~~5.5~~	
BLK	10.000	190.00	150.00	10.00	6.560	1800.00	0.02	2.97		
LCS	10.000	190.00	150.00	25.00	10.060	1800.00	3.87	520.58	67	
LCSD	10.000	190.00	150.00	25.00	10.500	1800.00	3.60	484.96	67	
SQ5209-1	10.578	190.00	150.00	10.00	6.040	1800.00	0.33	42.59		
SQ5109-1	10.628	190.00	150.00	10.00	6.520	~~180.00~~ 1800.00	0.05	5.84		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		

SS 10/3/23

SS 10/3/23

SS 10/3/23

KATAHDIN ANALYTICAL
REACTIVE SULFIDE

METHOD: SW846 9030 / 7.3.4.2	PQL: 27 mg/kg
REAGENT LOT #:	
IODINE STANDARD: W22108	STS SOLUTION-0.0375N: SWL5080
Na2S SOLUTION: W21995	NaOH-0.25N: W22187 / W22188
HCl-6N: W22051	H2SO4-0.01N: ~~S~~ W22186 / W22185
Total CN (1000ug/ml) SWL5091	
Pipette ID: W3 W21	Bal. ID: Bal 20
LCS PREP: 10mL NaS + 0.2mL CN-	
MS PREP: ⊥	

JRS 9/28/23

STANDARDIZATION OF I2		CALC OF I2 N	STANDARDIZATION OF Na2S			CALC OF Na2S mg/ml
VOL(ml) I2	VOL(ml) Na2S2O3		VOL(ml) I2	VOL(ml) Na2S2O3	VOL(ml) Na2S	
10	6.60		10	4.18	2	
1	6.58		⊥	4.15	⊥	
⊥	6.61		⊥	4.13	⊥	
	X:			X:		

	Prep Start Time	Prep End Time	Sample ID	Sample Wt. (g)	NaOH Trap Vol.(ml)	Analysis Vol.(ml)	ml I2 Soln Added	ml STS to Endpoint	Time of Analysis	
AQ	14:44	15:14	Blank	-	190	150	10	6.58	15:19	SS 10/3/23
	⊥	⊥	LCS	-	⊥	⊥	25	9.74	⊥	
			LCSD	-			⊥	9.54		
			SQ5208-1	9.895			10	7.12		
			SQ5108-1	10.028			⊥	6.60		LOD
SL			Blank	10.032			10	6.56		
			LCS	10.022			25	10.06		
			LCSD	10.014			⊥	10.50		
			SQ5209-1	10.578			10	6.04		
	⊥	⊥	SQ5109-1	10.628	⊥	⊥	⊥	6.52	⊥	LOD
								JRS	9/28/23	

NOTES: Sand ID: RE01009 AQ WG343273 - R624154, WG343274 - R624155 SL WG343275 - R624156, WG343276 - R624157

ANALYST: JRS	DATE: 9/28/23
CHECKED BY: SS	DATE: 10/3/23

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 01:25 pm
Batch: WG343419 Run ID 1: R624128 Run ID 2: NONE

Parameter: Total Cyanide
Prep Date: 02-OCT-23

Date Analyzed: 02-OCT-23
Prep Method: EPA 335.4

Analyst Initials: SS
Prep Chemist: SS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5140-3	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	2.99839	U10. ug/L	NA	10	4.0	10.		
SQ5200-1	SAMP	EPA 335.4	0.30000mL	6.0000mL	20	.98351	U200 ug/L	NA	10	79.	200		
SQ5226-2	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	.08239	U10. ug/L	NA	10	4.0	10.		
SQ5291-1	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	3.81792	U10. ug/L	NA	10	4.0	10.		
WG343419-1	MBLANK	EPA 335.4	6.0000mL	6.0000mL	1	1.56339	U8.0 ug/L	NA	10	4.0	10.		
WG343419-2	LCS	EPA 335.4	6.0000mL	6.0000mL	1	186.017	190 ug/L	NA	10	4.0	10.		93
WG343419-3	LCSD	EPA 335.4	6.0000mL	6.0000mL	1	186.97197	190 ug/L	NA	10	4.0	10.	0	93

Comments:

WG343419-1 SQ5140-3
WG343419-2 SQ5140-3
WG343419-3 SQ5140-3

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Entered by: SS Date: 10/3/23 Accepted by: RAD Date: 10/3/23 ✓

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 01:25 pm
Batch: WG343420 Run ID 1: R524129 Run ID 2: NONE

Parameter: Total Cyanide
Prep Date: 02-OCT-23

Date Analyzed: 02-OCT-23
Prep Method: EPA 335.4

Analyst Initials: SS
Prep Chemist: SS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5115-10	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	1.1983	U5.0 ug/L	NA	5	4.0	5.0		
SQ5115-11	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	1.81525	U5.0 ug/L	NA	5	4.0	5.0		
SQ5141-2	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	3.02714	U5.0 ug/L	NA	5	4.0	5.0		
SQ5142-3	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	1.57458	U5.0 ug/L	NA	5	4.0	5.0		
SQ5159-2	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	3.20481	U5.0 ug/L	NA	5	4.0	5.0		
SQ5221-1	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	2.35709	U5.0 ug/L	NA	5	4.0	5.0		
SQ5221-2	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	1.9835	U5.0 ug/L	NA	5	4.0	5.0		
SQ5221-3	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	16.76912	17. ug/L	NA	5	4.0	5.0		
SQ5228-2	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	-.06572	U5.0 ug/L	NA	5	4.0	5.0		
SQ5229-2	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	22.22556	22. ug/L	NA	5	4.0	5.0		
SQ5230-2	SAMP	EPA 335.4	6.0000mL	6.0000mL	1	2.14171	U5.0 ug/L	NA	5	4.0	5.0		
WG343420-1	MBLANK	EPA 335.4	6.0000mL	6.0000mL	1	1.56339	U5.0 ug/L	NA	5	4.0	5.0		
WG343420-2	LCS	EPA 335.4	6.0000mL	6.0000mL	1	186.017	190 ug/L	NA	5	4.0	5.0		93
WG343420-3	LCSD	EPA 335.4	6.0000mL	6.0000mL	1	186.97197	190 ug/L	NA	5	4.0	5.0	0	93

Comments:

WG343420-1 SQ5115-10
WG343420-2 SQ5115-10
WG343420-3 SQ5115-10

Entered by: SS Date: 10/3/23 Accepted by: RAD Date: 10/3/23 ✓

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WET CHEMISTRY BATCH REPORT
Oct 06 2023, 02:28 pm
Batch: WG343421 Run ID 1: R624130 Run ID 2: NONE

Parameter: Total Cyanide
Prep Date: 02-OCT-23

Date Analyzed: 02-OCT-23
Prep Method: SW846 M9012B

Analyst Initials: SS
Prep Chemist: SS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5280-1	SAMP	SW846 M9012B	0.11300g	6.0000mL	5.5	.0149	0.99 mg/Kgdrywt	80.	.12	0.20	0.66		
WG343421-1	MBLANK	SW846 M9012B	0.50000g	6.0000mL	1	.00058	U0.096 mg/Kgdrywt	NA	.12	0.036	0.12		
WG343421-2	LCS	SW846 M9012B	0.50000g	6.0000mL	1	.18547	2.2 mg/Kgdrywt	NA	.12	0.036	0.12		93
WG343421-3	LCSD	SW846 M9012B	0.50000g	6.0000mL	1	.20869	2.5 mg/Kgdrywt	NA	.12	0.036	0.12	12	104
WG343421-4	DUP	SW846 M9012B	0.14500g	6.0000mL	4.3	.0254	1.3 mg/Kgdrywt	NA	.12	0.15	0.52	28	
WG343421-5	MS	SW846 M9012B	0.15800g	6.0000mL	4	.11731	5.6 mg/Kgdrywt	NA	.12	0.14	0.48		96

Comments:

WG343421-1	SQ5280-1
WG343421-2	SQ5280-1
WG343421-3	SQ5280-1
WG343421-4	SQ5280-1
WG343421-5	SQ5280-1

Entered by: SS Date: 10/6/23 Accepted by: RAD Date: 10/6/23 ✓

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 01:26 pm
Batch: WG343422 Run ID 1: R624131 Run ID 2: NONE

Parameter: Cyanide, Reactive
Prep Date: 28-SEP-23

Date Analyzed: 02-OCT-23
Prep Method: SW846 7.3.4

Analyst Initials: SS
Prep Chemist: JRS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5208-1	SAMP	SW846 7.3.3	9.8950g	190.00mL	1.011	1.12142	U20. mg/Kg	NA	20	0.16	20.		
WG343422-1	MBLANK	SW846 7.3.3	10.000g	190.00mL	1	1.03415	U10. mg/Kg	NA	20	0.16	20.		
WG343422-2	LCS	SW846 7.3.3	10.000g	190.00mL	4	782.25037	J15. mg/Kg	NA	20	0.62	80.		74
WG343422-3	LCSD	SW846 7.3.3	10.000g	190.00mL	3	509.12173	J9.7 mg/Kg	NA	20	0.47	60.	42	48

Comments:

WG343422-1	SQ5208-1
WG343422-2	SQ5208-1
WG343422-3	SQ5208-1

Entered by: SS Date: 10/3/23 Accepted by: RAD Date: 10/3/23 ✓

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 01:26 pm
Batch: WG343423 Run ID 1: R624132 Run ID 2: NONE

Parameter: Cyanide, Reactive
Prep Date: 28-SEP-23

Date Analyzed: 02-OCT-23
Prep Method: SW846 7.3.4

Analyst Initials: SS
Prep Chemist: JRS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5209-1	SAMP	SW846 7.3.3	10.578g	190.00mL	.945	1.27478	U20. mg/Kg	84.	20	0.16	20.		
WG343423-1	MBLANK	SW846 7.3.3	10.000g	190.00mL	1	.84016	U10. mg/Kg	NA	20	0.16	20.		
WG343423-2	LCS	SW846 7.3.3	10.000g	190.00mL	3	487.57776	J9.3 mg/Kg	NA	20	0.47	60.		46
WG343423-3	LCSD	SW846 7.3.3	10.000g	190.00mL	2	339.72699	J6.4 mg/Kg	NA	20	0.31	40.	36	32

Comments:

WG343423-1 SQ5209-1
WG343423-2 SQ5209-1
WG343423-3 SQ5209-1

Entered by: SS Date: 10/3/23 Accepted by: RAD Date: 10/3/23 ✓

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 01:26 pm
Batch: WG343424 Run ID 1: R624133 Run ID 2: NONE

Parameter: Cyanide, Reactive
Prep Date: 28-SEP-23

Date Analyzed: 02-OCT-23
Prep Method: SW846 7.3.4

Analyst Initials: SS
Prep Chemist: JRS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5108-1	SAMP	SW846 7.3.3	10.028g	190.00mL	.997	.84174	U10. mg/Kg	NA	20	5.0	20.		
WG343424-1	MBLANK	SW846 7.3.3	10.000g	190.00mL	1	1.03415	U10. mg/Kg	NA	20	5.0	20.		
WG343424-2	LCS	SW846 7.3.3	10.000g	190.00mL	4	782.25037	U40. mg/Kg	NA	20	20.	80.		74
WG343424-3	LCSD	SW846 7.3.3	10.000g	190.00mL	3	509.12173	U30. mg/Kg	NA	20	15.	60.	42	48

Comments:

WG343424-1 SQ5108-1
WG343424-2 SQ5108-1
WG343424-3 SQ5108-1

Entered by: SS Date: 10/3/23 Accepted by: RAD Date: 10/3/23 ✓

WET CHEMISTRY BATCH REPORT
Oct 03 2023, 01:26 pm
Batch: WG343425 Run ID 1: R624134 Run ID 2: NONE

Parameter: Cyanide, Reactive
Prep Date: 28-SEP-23

Date Analyzed: 02-OCT-23
Prep Method: SW846 7.3.4

Analyst Initials: SS
Prep Chemist: SS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5109-1	SAMP	SW846 7.3.3	10.628g	190.00mL	.941	1.36583	U10. mg/Kg	NA	20	5.0	20.		
WG343425-1	MBLANK	SW846 7.3.3	10.000g	190.00mL	1	.84016	U10. mg/Kg	NA	20	5.0	20.		
WG343425-2	LCS	SW846 7.3.3	10.000g	190.00mL	3	487.57776	U30. mg/Kg	NA	20	15.	60.		46
WG343425-3	LCSD	SW846 7.3.3	10.000g	190.00mL	2	339.72699	U20. mg/Kg	NA	20	10.	40.	36	32

Comments:

WG343425-1 SQ5109-1
WG343425-2 SQ5109-1
WG343425-3 SQ5109-1

Entered by: SS Date: 10/3/23 Accepted by: RMD Date: 10/3/23 ✓

KATAHDIN ANALYTICAL SERVICES, LLC.
Wet Chemistry Analysis Run Information Sheet

Analyte: CYANIDE	**Analyst:** SS
Instrument: KONELAB 20	**Analysis Date:** 10/2/23

Analytical Method (Check all that apply):

WG343419 → R624128
WG343420 → R624129
SL: WG343421 → R624130
R: WG343422 → R624131

☑ EPA 335.4

☑ SW846 9012M ☑ SW846 7.3.4 (Reactive)

R: WG343423 → R624132 R: WG343424 → R624133 WG343425 → R624134

For reagents and standards prepared on each day of use and are either totally comsumed or disposed of, the reagent or standard ID is the abreviation of the reagent or standard name followed by the date. Please follow the preparation directions in the notes section.

Reagent Information: pH paper Lot ID: 6210005

Reagent Name	Reagent ID	Expiration Date
Pyridine / Barbituric Acid	**W22050**	**12/1/2023**
Phosphate Buffer	**W22208**	**11/2/2023**
Chloramine-T (dry reagent)	**SWL4742**	**4/22/2026**
Chloramine-T Solution, (Prepared from dry reagent)	CHL-T_100223	Day of use only
10 N NaOH Solution	**SWL4923**	**11/26/2023**
0.25 N NaOH Solution (Prepared from 10 N NaOH)	**W21570**	**1/17/2024**

Standards Information:

Standard Name	Concentration	ID	Expiration Date
Cal. Standard / CCV Stock	1000 mg/L	**SWL5067**	**7/10/2024**
Cal. Std. / CCV Intermediate	50 mg/L	**W21828**	**11/1/2023**
250 ug/L Calibration Standard	250 ug/L	**W22095**	**11/1/2023**
10 ug/L Calibration Standard	10 ug/L	**W22163**	**11/1/2023**
CCV	125 ug/L	CN_CCV_100223	Day of use only
ICV Stock	1000 mg/L	**SWL5027**	**8/11/2024**
ICV Intermediate	50 mg/L	**W21910**	**12/1/2023**
ICV	200 ug/L	**W22209**	**12/1/2023**

Notes:

1) Reagents and were prepared on day of use by dilution with reagent water as follows:
2) Standards and were prepared on day of use by dilution with 0.25N NaOH as follows:

Reagent or Standard	Prepared From	Amount Added	Final Volume
Chloramine-T Solution	Chloramine-T (dry reagent)	1.0 g	100 mL
CCV	250 ug/L Calibration Standard	5.0 mL	10.0 mL

2) Additional calibration standards (100, 50, 25, 10, 5 ug/L) prepared by instrument during analysis through dilution of the 250 ug/L calibration standard.

Aquakem v. 7.2										
Results from time period:										
Mon Oct 02 12:07:59 2023										
Mon Oct 02 17:06:31 2023										
Sample Id	Test short name	Result	Result unit	Result date and time	Dil. Factor	Response	Blank init abs. (A)	TEDin abs. 1	Comments	
CN-0	Cyanide	1.97395	µg/l	10/2/23 12:07:59	1	0.00277	0.00366	0.00643	NEEDS RECAL	
CN-250	Cyanide	6.36804	µg/l	10/2/23 12:08:00	50	0.00716	0.00152	0.00867	NEEDS RECAL	
CN-250	Cyanide	11.11129	µg/l	10/2/23 12:08:01	25	0.01189	0.00111	0.013	NEEDS RECAL	
CN-250	Cyanide	25.38046	µg/l	10/2/23 12:08:02	10	0.02615	0.00082	0.02697	NEEDS RECAL	
CN-250	Cyanide	48.2356	µg/l	10/2/23 12:08:03	5	0.04897	0.00126	0.05024	NEEDS RECAL	
CN-250	Cyanide	94.4794	µg/l	10/2/23 12:08:04	2.5	0.09516	0.00164	0.0968	NEEDS RECAL	
CN-250	Cyanide	252.45126	µg/l	10/2/23 12:08:05	1	0.25294	0.00509	0.25803	NEEDS RECAL	
CN-CCV	Cyanide	112.93768	µg/l	10/2/23 12:39:32	1	0.1136	0.00064	0.11424	NEEDS RECAL	
CN-CCB	Cyanide	1.58266	µg/l	10/2/23 12:39:33	1	0.00238	0.00089	0.00327	NEEDS RECAL	
BLANK	Cyanide	1.67082	µg/l	10/2/23 12:39:34	1	0.00247	0.0008	0.00326	NEEDS RECAL	
LCS	Cyanide	158.73274	µg/l	10/2/23 12:39:35	1	0.15934	0.00118	0.16051	NEEDS RECAL	
HIGH PT	Cyanide	206.6236	µg/l	10/2/23 12:39:36	1	0.20717	0.00136	0.20852	NEEDS RECAL	
LOW PT	Cyanide	12.97974	µg/l	10/2/23 12:39:37	1	0.01376	0.0009	0.01466	NEEDS RECAL	
5PT	Cyanide	5.94668	µg/l	10/2/23 12:39:38	1	0.00674	0.0008	0.00753	NEEDS RECAL	
LCSD	Cyanide	159.70619	µg/l	10/2/23 12:39:39	1	0.16031	0.00056	0.16087	NEEDS RECAL	
SQ5140-3	Cyanide	3.67115	µg/l	10/2/23 12:39:40	1	0.00446	0.00062	0.00508	NEEDS RECAL	
SQ5226-2	Cyanide	0.78717	µg/l	10/2/23 12:39:41	1	0.00158	0.00122	0.0028	NEEDS RECAL	
SQ5291-1	Cyanide	4.10459	µg/l	10/2/23 12:39:42	1	0.0049	0.00358	0.00848	NEEDS RECAL	
SQ5115-10	Cyanide	1.7857	µg/l	10/2/23 12:45:41	1	0.00258	0.00101	0.00359	NEEDS RECAL	
CN-CCV	Cyanide	114.20641	µg/l	10/2/23 12:45:42	1	0.11486	0.00097	0.11584	NEEDS RECAL	
CN-CCB	Cyanide	1.29833	µg/l	10/2/23 12:45:43	1	0.00209	0.00091	0.003	NEEDS RECAL	
SQ5115-11	Cyanide	1.71612	µg/l	10/2/23 12:45:44	1	0.00251	0.00137	0.00388	NEEDS RECAL	
SQ5141-2	Cyanide	4.36133	µg/l	10/2/23 12:45:45	1	0.00515	0.00158	0.00673	NEEDS RECAL	
SQ5142-3	Cyanide	2.70011	µg/l	10/2/23 12:45:46	1	0.00349	0.00372	0.00722	NEEDS RECAL	
SQ5159-2	Cyanide	2.33842	µg/l	10/2/23 12:45:47	1	0.00313	0.00408	0.00721	NEEDS RECAL	
SQ5221-1	Cyanide	2.49704	µg/l	10/2/23 12:45:48	1	0.00329	0.00165	0.00494	NEEDS RECAL	
SQ5221-2	Cyanide	2.04075	µg/l	10/2/23 12:45:49	1	0.00284	0.00209	0.00492	NEEDS RECAL	
SQ5221-3	Cyanide	3.14148	µg/l	10/2/23 12:45:50	1	0.00393	0.00374	0.00767	NEEDS RECAL	
SQ5228-2	Cyanide	0.86508	µg/l	10/2/23 12:45:51	1	0.00166	0.00244	0.0041	NEEDS RECAL	
SQ5229-2	Cyanide	20.57309	µg/l	10/2/23 12:51:52	1	0.02134	0.00204	0.02338	NEEDS RECAL	
SQ5230-2	Cyanide	2.29341	µg/l	10/2/23 12:51:53	1	0.00309	0.00304	0.00612	NEEDS RECAL	
CN-CCV	Cyanide	114.52982	µg/l	10/2/23 12:51:54	1	0.11519	0.00089	0.11608	NEEDS RECAL	
CN-CCB	Cyanide	1.80958	µg/l	10/2/23 12:51:55	1	0.0026	0.00092	0.00352	NEEDS RECAL	
AQ R BLANK	Cyanide	2.44414	µg/l	10/2/23 12:51:56	1	0.00324	0.00089	0.00413	NEEDS RECAL	
AQ R LCS	Cyanide	751.53253	µg/l	10/2/23 12:51:57	1	0.75141	0.00419	0.75561	NEEDS RECAL	
AQ R LCSD	Cyanide	483.48438	µg/l	10/2/23 12:51:58	1	0.48369	0.0035	0.4872	NEEDS RECAL	
SQ5208-1	Cyanide	1.69349	µg/l	10/2/23 12:51:59	1	0.00249	0.00088	0.00337	NEEDS RECAL	
SQ5108-1	Cyanide	1.34638	µg/l	10/2/23 12:52:00	1	0.00214	0.00069	0.00283	NEEDS RECAL	
SL R BLANK	Cyanide	1.51577	µg/l	10/2/23 12:52:01	1	0.00231	0.00063	0.00294	NEEDS RECAL	
SL R LCS	Cyanide	479.78525	µg/l	10/2/23 12:52:02	1	0.48	0.00206	0.48206	NEEDS RECAL	
SL R LCSD	Cyanide	343.31857	µg/l	10/2/23 12:56:18	1	0.3437	0.00795	0.35165	NEEDS RECAL	
SQ5209-1	Cyanide	1.98197	µg/l	10/2/23 12:56:19	1	0.00278	0.00085	0.00363	NEEDS RECAL	

SQ5109-1	Cyanide	1.45469	µg/l	10/2/23 12:56:20	1	0.00225	0.00056	0.00281	NEEDS RECAL	
CN-CCV	Cyanide	109.2509	µg/l	10/2/23 12:56:46	1	0.10991	0.00071	0.11062	NEEDS RECAL	
CN-CCB	Cyanide	1.8271	µg/l	10/2/23 12:56:47	1	0.00262	0.00077	0.00339	NEEDS RECAL	
LCS	Cyanide	165.77824	µg/l	10/2/23 13:00:30	1	0.16637	0.00084	0.16721	NEEDS RECAL	
HIGH PT	Cyanide	219.95169	µg/l	10/2/23 13:00:31	1	0.22048	0.00089	0.22137	NEEDS RECAL	
LOW PT	Cyanide	13.20092	µg/l	10/2/23 13:00:32	1	0.01398	0.00121	0.01519	NEEDS RECAL	
LCSD	Cyanide	169.52908	µg/l	10/2/23 13:00:33	1	0.17012	0.00112	0.17124	NEEDS RECAL	
CN-CCV	Cyanide	116.49739	µg/l	10/2/23 13:02:44	1	0.11715	0.00058	0.11773	NEEDS RECAL	
CN-CCB	Cyanide	-1.88382	µg/l	10/2/23 13:02:45	1	-0.00108	0.00416	0.00307	NEEDS RECAL	
SQ5229-2	Cyanide	21.69615	µg/l	10/2/23 13:07:58	1	0.02247	0.0026	0.02506	NEEDS RECAL	
AQ R LCS	Cyanide	774.28265	µg/l	10/2/23 13:12:31	4	0.19413	0.00184	0.19597	NEEDS RECAL	
AQ R LCSD	Cyanide	498.84052	µg/l	10/2/23 13:12:32	3	0.16687	0.00196	0.16883	NEEDS RECAL	
SL R LCS	Cyanide	467.03918	µg/l	10/2/23 13:12:33	3	0.15629	0.00257	0.15886	NEEDS RECAL	
CN-CCV	Cyanide	113.43221	µg/l	10/2/23 13:14:43	1	0.11409	0.00092	0.11501	NEEDS RECAL	
CN-CCB	Cyanide	1.48719	µg/l	10/2/23 13:14:44	1	0.00228	0.0012	0.00348	NEEDS RECAL	
LCS	Cyanide	160.73412	µg/l	10/2/23 13:17:39	1	0.16134	0.00112	0.16245	NEEDS RECAL	
HIGH PT	Cyanide	217.82387	µg/l	10/2/23 13:17:40	1	0.21836	0.00084	0.21919	NEEDS RECAL	
LOW PT	Cyanide	13.44046	µg/l	10/2/23 13:17:41	1	0.01422	0.00073	0.01495	NEEDS RECAL	
LCSD	Cyanide	168.29227	µg/l	10/2/23 13:17:42	1	0.16888	0.00058	0.16946	NEEDS RECAL	
CN-CCV	Cyanide	114.80089	µg/l	10/2/23 13:19:51	1	0.11546	0.00071	0.11617	NEEDS RECAL	
CN-CCB	Cyanide	1.50178	µg/l	10/2/23 13:19:52	1	0.0023	0.00082	0.00312	NEEDS RECAL	
CN-CCB	Cyanide		µg/l	10/2/23 14:30:59	1				NEEDS RECAL	
CN-CCV	Cyanide	109.10856	µg/l	10/2/23 14:40:22	1	0.10977	0.00071	0.11049	NEEDS RECAL	
CN-CCB	Cyanide	1.76498	µg/l	10/2/23 14:40:23	1	0.00256	0.00042	0.00298	NEEDS RECAL	
AQ R BLANK	Cyanide	1.65866	µg/l	10/2/23 14:40:24	1	0.00245	0.00069	0.00314	NEEDS RECAL	
SQ5208-1	Cyanide	2.23815	µg/l	10/2/23 14:40:25	1	0.00303	0.00111	0.00415	NEEDS RECAL	
SQ5108-1	Cyanide	1.51016	µg/l	10/2/23 14:40:26	1	0.00231	0.00097	0.00327	NEEDS RECAL	
SL R BLANK	Cyanide	1.53777	µg/l	10/2/23 14:40:27	1	0.00233	0.00048	0.00282	NEEDS RECAL	
SQ5209-1	Cyanide	1.74808	µg/l	10/2/23 14:40:28	1	0.00254	0.0005	0.00305	NEEDS RECAL	
SQ5109-1	Cyanide	2.19581	µg/l	10/2/23 14:40:29	1	0.00299	0.00046	0.00345	NEEDS RECAL	
SL BLANK	Cyanide	1.21731	µg/l	10/2/23 14:40:30	1	0.00201	0.00054	0.00255	NEEDS RECAL	
SL LCS	Cyanide	168.49307	µg/l	10/2/23 14:40:31	1	0.16908	0.00122	0.1703	NEEDS RECAL	
SQ5280-1	Cyanide	14.5021	µg/l	10/2/23 14:40:32	1	0.01528	0.00051	0.01579	NEEDS RECAL	
SQ5280-1 DUP	Cyanide	23.88548	µg/l	10/2/23 14:45:30	1	0.02465	0.00112	0.02577	NEEDS RECAL	
CN-CCV	Cyanide	114.90027	µg/l	10/2/23 14:45:31	1	0.11556	0.00115	0.11671	NEEDS RECAL	
SQ5280-1 MS	Cyanide	114.32955	µg/l	10/2/23 14:45:33	1	0.11499	0.00048	0.11546	NEEDS RECAL	
LOW PT REDIS	Cyanide	10.03546	µg/l	10/2/23 14:45:34	1	0.01082	0.00083	0.01165	NEEDS RECAL	
LCS REDIS	Cyanide	171.38498	µg/l	10/2/23 14:45:35	1	0.17197	0.00133	0.17331	NEEDS RECAL	
LCSD REDIS	Cyanide	169.58131	µg/l	10/2/23 14:45:36	1	0.17017	0.00172	0.17189	NEEDS RECAL	
SL LCSD	Cyanide	169.99051	µg/l	10/2/23 14:45:37	1	0.17058	0.00044	0.17102	NEEDS RECAL	
SL R LCSD	Cyanide	335.49072	µg/l	10/2/23 14:48:39	2	0.16834	0.00401	0.17234	NEEDS RECAL	
CN-CCV	Cyanide	114.88837	µg/l	10/2/23 14:50:42	1	0.11555	0.00092	0.11647	NEEDS RECAL	
CN-0	Cyanide	0.39079	µg/l	10/2/23 15:09:03	1	0.00238	0.0005	0.00289	CAL POINT	
CN-250	Cyanide	5.33745	µg/l	10/2/23 15:09:04	50	0.00714	0.00094	0.00808	CAL POINT	
CN-250	Cyanide	10.02039	µg/l	10/2/23 15:09:05	25	0.01165	0.00078	0.01243	CAL POINT	
CN-250	Cyanide	25.11398	µg/l	10/2/23 15:09:06	10	0.02617	0.00048	0.02665	CAL POINT	
CN-250	Cyanide	49.03002	µg/l	10/2/23 15:09:07	5	0.04917	0.00112	0.05029	CAL POINT	
CN-250	Cyanide	99.88724	µg/l	10/2/23 15:09:08	2.5	0.09809	0.00131	0.0994	CAL POINT	

CN-250	Cyanide	250.22015	µg/l	10/2/23 15:09:09	1	0.2427	0.00234	0.24505	CAL POINT	
CN-CCV	Cyanide	115.27749	µg/l	10/2/23 15:28:21	1	0.1129	0.01472	0.12762	92%	
CN-CCB	Cyanide	0.21424	µg/l	10/2/23 15:28:22	1	0.00221	0.00071	0.00293		
BLANK	Cyanide	1.56339	µg/l	10/2/23 15:28:23	1	0.00351	0.00053	0.00404	ACCEPTED	
5PT	Cyanide	5.73637	µg/l	10/2/23 15:28:24	1	0.00753	0.00061	0.00814	ACCEPTED	
SQ5140-3	Cyanide	2.99839	µg/l	10/2/23 15:28:25	1	0.00489	0.00081	0.00571	ACCEPTED	
SQ5226-2	Cyanide	0.08239	µg/l	10/2/23 15:28:26	1	0.00209	0.00082	0.00291	ACCEPTED	
SQ5291-1	Cyanide	3.81792	µg/l	10/2/23 15:28:27	1	0.00568	0.00781	0.01349	ACCEPTED	
SQ5115-10	Cyanide	1.1983	µg/l	10/2/23 15:28:28	1	0.00316	0.00032	0.00348	ACCEPTED	
SQ5115-11	Cyanide	1.81525	µg/l	10/2/23 15:28:29	1	0.00375	0.0005	0.00426	ACCEPTED	
SQ5141-2	Cyanide	3.02714	µg/l	10/2/23 15:28:30	1	0.00492	0.00631	0.01123	ACCEPTED	
SQ5142-3	Cyanide	1.57458	µg/l	10/2/23 15:28:31	1	0.00352	0.00278	0.0063	ACCEPTED	
LCS	Cyanide	155.33757	µg/l	10/2/23 15:34:32	1	0.15143	0.00014	0.15157	REDIST TO CONFIRM	
CN-CCV	Cyanide	119.86876	µg/l	10/2/23 15:34:33	1	0.11731	0.001	0.11831	96%	
CN-CCB	Cyanide	0.69316	µg/l	10/2/23 15:34:34	1	0.00268	0.00051	0.00319		
HIGH PT	Cyanide	209.37509	µg/l	10/2/23 15:34:35	1	0.20341	0.00066	0.20407	REDIST TO CONFIRM	
SQ5159-2	Cyanide	3.20481	µg/l	10/2/23 15:34:36	1	0.00509	0.00102	0.00611	ACCEPTED	
SQ5221-1	Cyanide	2.35709	µg/l	10/2/23 15:34:37	1	0.00428	0.00139	0.00566	ACCEPTED	
SQ5221-2	Cyanide	1.9835	µg/l	10/2/23 15:34:38	1	0.00392	0.00131	0.00522	ACCEPTED	
SQ5221-3	Cyanide	16.76912	µg/l	10/2/23 15:34:39	1	0.01814	0.00287	0.021	ACCEPTED	
SQ5228-2	Cyanide	-0.06572	µg/l	10/2/23 15:34:40	1	0.00195	0.00143	0.00338	ACCEPTED	
SQ5229-2	Cyanide	21.61413	µg/l	10/2/23 15:34:41	1	0.0228	0.0014	0.0242	RERUN TO CONFIRM	
SQ5230-2	Cyanide	2.14171	µg/l	10/2/23 15:34:42	1	0.00407	0.00125	0.00532	ACCEPTED	
LOW PT	Cyanide	11.7977	µg/l	10/2/23 15:40:41	1	0.01336	0.00086	0.01422	REDIST TO CONFIRM	
LCSD	Cyanide	159.52722	µg/l	10/2/23 15:40:42	1	0.15546	0.00118	0.15664	REDIST TO CONFIRM	
CN-CCV	Cyanide	120.28695	µg/l	10/2/23 15:40:43	1	0.11772	0.00115	0.11887	96%	
CN-CCB	Cyanide	0.57189	µg/l	10/2/23 15:40:44	1	0.00256	0.00115	0.00371		
AQ R BLANK	Cyanide	1.03415	µg/l	10/2/23 15:40:45	1	0.003	0.00103	0.00403	ACCEPTED	
SQ5208-1	Cyanide	8.99285	µg/l	10/2/23 15:40:46	1	0.01066	0.00239	0.01305	RERUN TO CONFIRM	
SQ5108-1	Cyanide	0.84174	µg/l	10/2/23 15:40:47	1	0.00282	0.00102	0.00384	ACCEPTED	
SL R BLANK	Cyanide	0.84016	µg/l	10/2/23 15:40:48	1	0.00282	0.00056	0.00338	ACCEPTED	
SQ5209-1	Cyanide	1.27478	µg/l	10/2/23 15:40:49	1	0.00323	0.00052	0.00376	ACCEPTED	
SQ5109-1	Cyanide	1.36583	µg/l	10/2/23 15:40:50	1	0.00332	0.0005	0.00382	ACCEPTED	
SL BLANK	Cyanide	0.58768	µg/l	10/2/23 15:40:51	1	0.00257	0.00043	0.003	ACCEPTED	
SL LCS	Cyanide	170.45609	µg/l	10/2/23 15:46:31	1	0.16597	-0.00005	0.16592	REMAKE LCS AND REDIST	
SQ5280-1	Cyanide	14.90833	µg/l	10/2/23 15:46:32	1	0.01635	0.00111	0.01746	ACCEPTED	
SQ5280-1 DUP	Cyanide	24.98491	µg/l	10/2/23 15:46:33	1	0.02604	0.00032	0.02636	RERUN TO CONFIRM	
CN-CCV	Cyanide	120.54691	µg/l	10/2/23 15:46:34	1	0.11797	0.0009	0.11887	96%	
CN-CCB	Cyanide	0.4468	µg/l	10/2/23 15:46:35	1	0.00244	0.00099	0.00343		
SQ5280-1 MS	Cyanide	116.32412	µg/l	10/2/23 15:46:36	1	0.1139	0.00071	0.11461	RERUN TO CONFIRM	
LOW PT REDIS	Cyanide	9.55661	µg/l	10/2/23 15:46:37	1	0.0112	0.00072	0.01192	ACCEPTED	
LCS REDIS	Cyanide	176.55148	µg/l	10/2/23 15:46:38	1	0.17184	0.00066	0.1725	REMAKE LCS AND REDIST	
LCSD REDIS	Cyanide	173.66556	µg/l	10/2/23 15:46:39	1	0.16906	0.00135	0.17041	REMAKE LCS AND REDIST	
SL LCSD	Cyanide	172.43355	µg/l	10/2/23 15:46:40	1	0.16788	0.00206	0.16994	REMAKE LCS AND REDIST	
SQ5221-3	Cyanide	7.71325	µg/l	10/2/23 15:51:11	1	0.00943	0.00242	0.01184	TO CONFIRM, NOT REPORTED	
SQ5229-2	Cyanide	22.22556	µg/l	10/2/23 15:51:12	1	0.02339	0.00202	0.02541	ACCEPTED	
AQ R LCS	Cyanide	782.25037	µg/l	10/2/23 15:57:29	4	0.19012	0.0012	0.19132	ACCEPTED	
AQ R LCSD	Cyanide	509.12173	µg/l	10/2/23 15:57:30	3	0.16525	0.00159	0.16685	ACCEPTED	

SL R LCS	Cyanide	487.57776	µg/l	10/2/23 15:57:31	3	0.15835	0.00178	0.16013	ACCEPTED	
CN-CCV	Cyanide	125.80627	µg/l	10/2/23 15:57:32	1	0.12302	0.00049	0.12351	101%	
CN-CCB	Cyanide	0.53943	µg/l	10/2/23 15:57:33	1	0.00253	0.00028	0.00281	ACCEPTED JV	
SL R LCSD	Cyanide	339.72699	µg/l	10/2/23 15:57:34	2	0.1654	0.0016	0.167	~~REMAKE LCS AND REDIST~~	
CN-CCV	Cyanide	125.07218	µg/l	10/2/23 16:00:12	1	0.12232	0.00034	0.12266	100%	
CN-CCB	Cyanide	0.478	µg/l	10/2/23 16:00:13	1	0.00247	0.00042	0.00288		
SQ5208-1	Cyanide	1.12142	µg/l	10/2/23 16:06:28	1	0.00309	0.00026	0.00335	ACCEPTED	
SQ5280-1	Cyanide	14.06552	µg/l	10/2/23 16:08:48	1	0.01554	-0.00001	0.01553	TO CONFIRM, NOT REPORTED	
SQ5280-1 DUP	Cyanide	25.40473	µg/l	10/2/23 16:08:49	1	0.02645	0.00037	0.02682	ACCEPTED	
SQ5280-1 MS	Cyanide	117.31757	µg/l	10/2/23 16:08:50	1	0.11486	0.00042	0.11528	ACCEPTED	
CN-CCV	Cyanide	119.70879	µg/l	10/2/23 16:11:00	1	0.11716	0.00002	0.11718	96%	
CN-CCB	Cyanide	0.56754	µg/l	10/2/23 16:11:01	1	0.00255	0.00037	0.00293		
CN-CCB	Cyanide		µg/l	10/2/23 16:34:17	1				INST ERROR	
CN-CCV	Cyanide	116.8535	µg/l	10/2/23 16:43:48	1	0.11441	0.00098	0.11539	93%	
CN-CCB	Cyanide	0.56713	µg/l	10/2/23 16:43:49	1	0.00255	0.00077	0.00332		
SQ5200-1 20X	Cyanide	0.89664	µg/l	10/2/23 16:43:50	1	0.00287	0.00068	0.00355	RERUN, INST ERROR	
HIGH PT REDIS	Cyanide	238.05948	µg/l	10/2/23 16:43:51	1	0.231	0.00067	0.23167	RERUN, INST ERROR	
LCS REDIS 2	Cyanide	184.9801	µg/l	10/2/23 16:43:52	1	0.17995	0.00032	0.18027	RERUN, INST ERROR	
LCSD REDIS 2	Cyanide	187.70384	µg/l	10/2/23 16:43:53	1	0.18257	0.00081	0.18337	RERUN, INST ERROR	
SL LCS REDIS	Cyanide	184.92375	µg/l	10/2/23 16:43:54	1	0.17989	0.00047	0.18036	RERUN, INST ERROR	
SL LCSD REDIS	Cyanide	207.59439	µg/l	10/2/23 16:43:55	1	0.2017	0.00079	0.20249	RERUN, INST ERROR	
CN-CCV	Cyanide	121.60619	µg/l	10/2/23 16:46:47	1	0.11898	0.00082	0.11981	INST ERROR	
CN-CCV	Cyanide	118.57948	µg/l	10/2/23 17:03:24	1	0.11607	0.00078	0.11686	95%	
CN-CCB	Cyanide	0.35139	µg/l	10/2/23 17:03:25	1	0.00235	0.00113	0.00348		
SQ5200-1 20X	Cyanide	0.98351	µg/l	10/2/23 17:03:26	1	0.00295	0.00069	0.00364	ACCEPTED	
HIGH PT REDIS	Cyanide	237.31641	µg/l	10/2/23 17:03:27	1	0.23029	0.00057	0.23086	ACCEPTED	
LCS REDIS 2	Cyanide	186.017	µg/l	10/2/23 17:03:28	1	0.18094	0.00046	0.1814	ACCEPTED	
LCSD REDIS 2	Cyanide	186.97197	µg/l	10/2/23 17:03:29	1	0.18186	0.00073	0.18259	ACCEPTED	
SL LCS REDIS	Cyanide	185.47919	µg/l	10/2/23 17:03:30	1	0.18043	0.00031	0.18073	ACCEPTED	
SL LCSD REDIS	Cyanide	208.69398	µg/l	10/2/23 17:03:31	1	0.20276	0.00109	0.20385	ACCEPTED	
CN-CCV	Cyanide	125.06586	µg/l	10/2/23 17:06:30	1	0.12231	0.00088	0.12319	100%	
CN-CCB	Cyanide	0.32599	µg/l	10/2/23 17:06:31	1	0.00232	0.00094	0.00327		

RAD 10/3/23

Laboratory
Analyzer User

Date : 10/2/2023
Time : 17:08

Test Cyanide
Unit µg/l

Sample ID:	Result	Date and Time	Note
CN-CCV	112.9377	10/2/2023 12:39	
CN-CCB	1.5827	10/2/2023 12:39	
BLANK		-	R
LCS		-	R
HIGH PT		-	R
LOW PT		-	R
5PT		-	R
LCSD		-	R
SQ5140-3		-	R
SQ5226-2		-	R
SQ5291-1		-	R
SQ5115-10		-	R
CN-CCV	114.2064	10/2/2023 12:45	
CN-CCB	1.2983	10/2/2023 12:45	
SQ5115-11		-	R
SQ5141-2		-	R
SQ5142-3		-	R
SQ5159-2		-	R
SQ5221-1		-	R
SQ5221-2		-	R
SQ5221-3		-	R
SQ5228-2		-	R
SQ5229-2		-	R
SQ5230-2		-	R
CN-CCV	114.5298	10/2/2023 12:51	
CN-CCB	1.8096	10/2/2023 12:51	
AQ R BLANK		-	R
AQ R LCS		-	R
AQ R LCSD		-	R
SQ5208-1		-	R
SQ5108-1		-	R
SL R BLANK		-	R
SL R LCS		-	R
SL R LCSD		-	R
SQ5209-1		-	R
SQ5109-1		-	R
CN-CCV	109.2509	10/2/2023 12:56	
CN-CCB	1.8271	10/2/2023 12:56	
LCS		-	R
HIGH PT		-	R
LOW PT		-	R
LCSD		-	R
CN-CCV	116.4974	10/2/2023 13:02	
CN-CCB	-1.8838	10/2/2023 13:02	
SQ5229-2		-	R
AQ R LCS		-	R
AQ R LCSD		-	R
SL R LCS		-	R
CN-CCV	113.4322	10/2/2023 13:14	
CN-CCB	1.4872	10/2/2023 13:14	
LCS		-	R
HIGH PT		-	R
LOW PT		-	R

Laboratory
Analyzer User

Date : 10/2/2023
Time : 17:08

Test Cyanide
Unit µg/l

Sample ID:	Result	Date and Time	Note
LCSD		-	R
CN-CCV	114.8009	10/2/2023 13:19	
CN-CCB	1.5018	10/2/2023 13:19	
CN-CCB		-	
CN-CCV		-	
CN-CCB		-	
AQ R BLANK		-	R
SQ5208-1		-	R
SQ5108-1		-	R
SL R BLANK		-	R
SQ5209-1		-	R
SQ5109-1		-	R
SL BLANK		-	R
SL LCS		-	R
SQ5280-1		-	R
SQ5280-1 DUP		-	R
CN-CCV		-	
SQ5280-1 MS		-	R
LOW PT REDIS		-	R
LCS REDIS		-	R
LCSD REDIS		-	R
SL LCSD		-	R
SL R LCSD		-	R
CN-CCV		-	
CN-CCV	115.2775	10/2/2023 15:28	
CN-CCB	0.2142	10/2/2023 15:28	
BLANK	1.5634	10/2/2023 15:28	R
5PT	5.7364	10/2/2023 15:28	R
SQ5140-3	2.9984	10/2/2023 15:28	R
SQ5226-2	0.0824	10/2/2023 15:28	R
SQ5291-1	3.8179	10/2/2023 15:28	R
SQ5115-10	1.1983	10/2/2023 15:28	R
SQ5115-11	1.8152	10/2/2023 15:28	R
SQ5141-2	3.0271	10/2/2023 15:28	R
SQ5142-3	1.5746	10/2/2023 15:28	R
LCS	155.3376	10/2/2023 15:34	R
CN-CCV	119.8688	10/2/2023 15:34	
CN-CCB	0.6932	10/2/2023 15:34	
HIGH PT	209.3751	10/2/2023 15:34	R
SQ5159-2	3.2048	10/2/2023 15:34	R
SQ5221-1	2.3571	10/2/2023 15:34	R
SQ5221-2	1.9835	10/2/2023 15:34	R
SQ5221-3		-	R
SQ5228-2	-0.0657	10/2/2023 15:34	R
SQ5229-2		-	R
SQ5230-2	2.1417	10/2/2023 15:34	R
LOW PT	11.7977	10/2/2023 15:40	R
LCSD	159.5272	10/2/2023 15:40	R
CN-CCV	120.2869	10/2/2023 15:40	
CN-CCB	0.5719	10/2/2023 15:40	
AQ R BLANK	1.0341	10/2/2023 15:40	R
SQ5208-1		-	R
SQ5108-1	0.8417	10/2/2023 15:40	R

Laboratory
Analyzer User

Date : 10/2/2023
Time : 17:08

Test Cyanide
Unit µg/l

Sample ID:	Result	Date and Time	Note
SL R BLANK	0.8402	10/2/2023 15:40	R
SQ5209-1	1.2748	10/2/2023 15:40	R
SQ5109-1	1.3658	10/2/2023 15:40	R
SL BLANK	0.5877	10/2/2023 15:40	R
SL LCS	170.4561	10/2/2023 15:46	R
SQ5280-1	_____	-	R
SQ5280-1 DUP	_____	-	R
CN-CCV	120.5469	10/2/2023 15:46	
CN-CCB	0.4468	10/2/2023 15:46	
SQ5280-1 MS	_____	-	R
LOW PT REDIS	9.5566	10/2/2023 15:46	R
LCS REDIS	176.5515	10/2/2023 15:46	R
LCSD REDIS	173.6656	10/2/2023 15:46	R
SL LCSD	172.4335	10/2/2023 15:46	R
SQ5221-3	7.7133	10/2/2023 15:51	R
SQ5229-2	22.2256	10/2/2023 15:51	R
AQ R LCS	782.2504	10/2/2023 15:57	R
AQ R LCSD	509.1217	10/2/2023 15:57	R
SL R LCS	487.5778	10/2/2023 15:57	R
CN-CCV	125.8063	10/2/2023 15:57	
CN-CCB	0.5394	10/2/2023 15:57	
SL R LCSD	339.7270	10/2/2023 15:57	R
CN-CCV	125.0722	10/2/2023 16:00	
CN-CCB	0.4780	10/2/2023 16:00	
SQ5208-1	1.1214	10/2/2023 16:06	R
SQ5280-1	14.0655	10/2/2023 16:08	R
SQ5280-1 DUP	25.4047	10/2/2023 16:08	R
SQ5280-1 MS	117.3176	10/2/2023 16:08	R
CN-CCV	119.7088	10/2/2023 16:11	
CN-CCB	0.5675	10/2/2023 16:11	
CN-CCB	_____	-	
CN-CCV	_____	-	
CN-CCB	_____	-	
SQ5200-1 20X	_____	-	R
HIGH PT REDIS	_____	-	R
LCS REDIS 2	_____	-	R
LCSD REDIS 2	_____	-	R
SL LCS REDIS	_____	-	R
SL LCSD REDIS	_____	-	R
CN-CCV	_____	-	
CN-CCV	_____	-	
CN-CCB	_____	-	
SQ5200-1 20X	0.9835	10/2/2023 17:03	R
HIGH PT REDIS	237.3164	10/2/2023 17:03	R
LCS REDIS 2	186.0170	10/2/2023 17:03	R
LCSD REDIS 2	186.9720	10/2/2023 17:03	R
SL LCS REDIS	185.4792	10/2/2023 17:03	R
SL LCSD REDIS	208.6940	10/2/2023 17:03	R
CN-CCV	_____	-	
CN-CCB	_____	-	

Laboratory
Analyzer User

10/2/2023 15:09

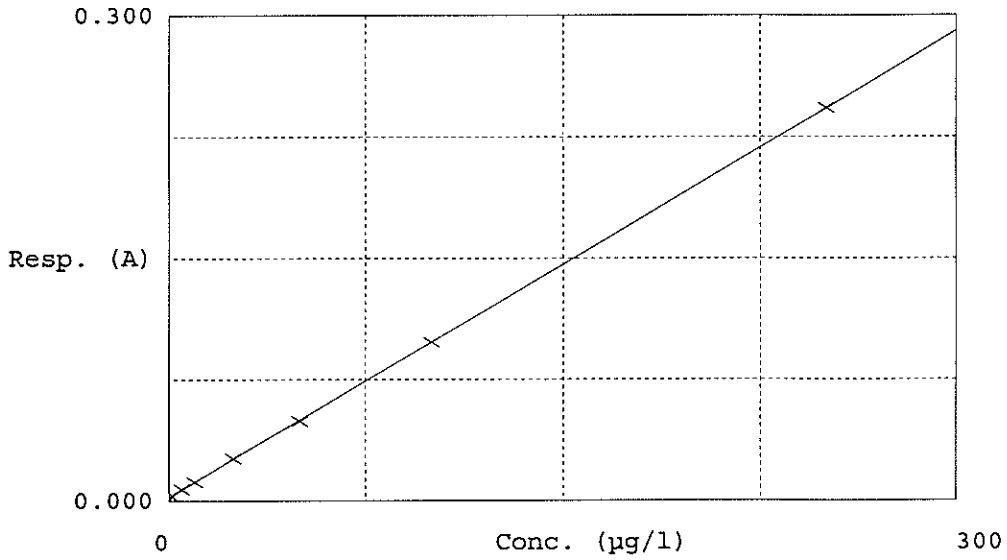
Test Cyanide

Accepted 10/2/2023 15:09

Factor 1040
Bias 0.002

Coeff. of det. 0.999973

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	CN-0	0.002	0.39079	0.00000	
2	CN-250	0.007	5.33745	5.00000	
3	CN-250	0.012	10.02039	10.00000	
4	CN-250	0.026	25.11398	25.00000	
5	CN-250	0.049	49.03002	50.00000	
6	CN-250	0.098	99.88724	100.00000	
7	CN-250	0.243	250.22015	250.00000	

KATAHDIN ANALYTICAL SERVICES

CYANIDE MINI DISTILLATION:	SM4500-CN C	E335.4	SW9012B

Standard	True Value ug/L	Source Standard ID	Source Standard Spike Amount (mL)	PQL = 10 ug/L (AQ) & 0.5 mg/kg (SL)
Cal High Point	250	W22095	6	Releasing Solution: W22131
Cal Low Point	10	W22163	1	NaOH Trapping Solution (IN): W22038
LCS	200	W22209	1	NaOH-0.25N: W22096
Matrix Spike	100	— *	~~Δ 0.12~~ SS 10/2/23	Block SN: 131200002198

Sulfamic Acid ID: SWC4305 | KI TS ID: 14-860 | Lead Acetate TS ID: S60125 | Acetic Acid ID: SWC4165

Notes: MB = membrane broke
* = W21910
Δ = 0.012

BAL ID: 20

Pipette IDs: W20, W8, W3, W17, W10

KAS Sample ID	Res. Cl Check	Res. S2 Check	Initial pH	Distillation Start Time	Distillation End Time	Sample Volume (mL)	Sample Weight (g)	Distillate Volume	Comments
Blank	NA	NA	NA	11:34	12:05	6		6	
LCS	NA	NA	NA						
High	NA	NA	NA						
Low	NA	NA	NA						
SPT									
LCSD									
SQ5140-3			✓						
MB 5200-1									
5226-2									
5291-1									
5115-10									
" -11									
5141-2									
5142-3									
5159-2									
5221-1									
" -2									
" -3									
5228-2									
5229-2									
5230-2									
SL Blank	NA	NA	NA	13:46	14:17		0.129	6	
SL LCS							0.105		
SQ5280-1							0.113		
" DUP							0.145		
" MS							0.158		
MB SMB SQ5200-1			✓			1.2		6	
"						0.6		"	
~~High~~ Low Std	NA	NA	NA			6		6	

DISTILLED BY: SS | DISTILLATION DATE: 10/2/23

REVIEWED BY: RAD | REVIEW DATE: 10/3/23

KATAHDIN ANALYTICAL SERVICES

CYANIDE MINI DISTILLATION:	SM4500-CN C	E335.4	SW9012B

Standard	True Value ug/L	Source Standard ID	Source Standard Spike Amount (mL)	PQL = 10 ug/L (AQ) & 0.5 mg/kg (SL)
Cal High Point	250			Releasing Solution:
Cal Low Point	10			NaOH Trapping Solution (N):
LCS	200			~~NaOH 0.25N:~~
Matrix Spike	100			Block SN: 131200002198

Sulfamic Acid ID:	KI TS ID:	Lead Acetate TS ID:	Acetic Acid ID:

Notes: BAL ID: Pipette IDs: see Prev pg. SS 10/2/23

KAS Sample ID	Res. Cl Check	Res. S2 Check	Initial pH	Distillation Start Time	Distillation End Time	Sample Volume (mL)	Sample Weight (g)	Distillate Volume	Comments
~~Blank~~	~~NA~~	NA	NA						
LCS	NA	NA	NA	13:46	14:17	6	2	6	
~~High~~	~~NA~~	~~NA~~	~~NA~~						
Low	NA	NA	NA						
LCSP	NA	NA	NA	13:46	14:17	6	2	6	
SL LCSD	1	1	1	1	1	2	0.1	6	
SQ5200-1	-	-	✓	15:53	16:24	0.3	2	6	
1	1	1	1	1	1	0.15	1	6	Not analyzed SS 10/2/23
1	1	1	1	1	1	0.06	1	1	
High Pt	NA	NA	NA			6	2	6	
LCS	1	1	1	1	1	1	1	1	
LCSD	1	1	1	1	1	1	1	1	
SL LCS	1	1	1	1	1	±2	0.154	1	SS 10/4/23
SL LCSD	1	1	1	1	1	±2	0.113	1	

SS 10/3/23

DISTILLED BY: SS DISTILLATION DATE: 10/2/23

REVIEWED BY: RAD REVIEW DATE: 10/3/23

KATAHDIN ANALYTICAL
REACTIVE SULFIDE

METHOD: SW846 9030 / 7.3.4.2	PQL: 27 mg/kg
REAGENT LOT #:	
IODINE STANDARD: W22108	STS SOLUTION-0.0375N: SWL5080
Na2S SOLUTION: W21995	NaOH-0.25N: W22187 / W22188
HCl-6N: W22051	H2SO4-0.01N: ~~5~~ W22186 / W22185
Total CN (1000ug/ml) SWL5091	
Pipette ID: W3 W21	Bal. ID: Bal 20
LCS PREP: 10mL NaS + 0.2mL CN-	
MS PREP: 1	

JRS 9/28/23

STANDARDIZATION OF I2		CALC OF I2 N	STANDARDIZATION OF Na2S			CALC OF Na2S mg/ml
VOL(ml) I2	VOL(ml) Na2S2O3		VOL(ml) I2	VOL(ml) Na2S2O3	VOL(ml) Na2S	
10	6.60		10	4.18	2	
1	6.58		1	9.15	1	
1	6.61		1	9.13	1	
	X:			X:		

Prep Start Time	Prep End Time	Sample ID	Sample Wt. (g)	NaOH Trap Vol.(ml)	Analysis Vol.(ml)	ml I2 Soln Added	ml STS to Endpoint	Time of Analysis	
AQ 14:44	15:14	Blank	-	190	150	10	6.58	15:19	SS 10/3/23
		LCS	-			25	9.74		
		LCSD	-			1	9.54		
		SQ5208-1	9.895			10	7.12		
		SQ5108-1	10.028			1	6.60		LOD
SL		Blank	10.032			10	6.56		
		LCS	10.022			25	10.06		
		LCSD	10.019			1	10.50		
		SQ5209-1	10.578			10	6.04		
		SQ5109-1	10.628			1	6.52		LOD

NOTES: Sand ID: RE01009 AQ WG343273 WG343274 SL WG343275 WG343276

ANALYST: JRS	DATE: 9/28/23
CHECKED BY: RAD	DATE: 10/3/23

WET CHEMISTRY BATCH REPORT
Oct 05 2023, 03:39 pm
Batch: WG343570 Run ID 1: R624346 Run ID 2: NONE

Parameter: Ignitability
Prep Date: N/A

Date Analyzed: 05-OCT-23
Prep Method: N/A

Analyst Initials: CJB
Prep Chemist: N/A

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SQ5108-1	SAMP	SW846 1010A	1.0000mL	1.0000mL	1	71	>71. Deg. C	NA	71	71.	71.		
SQ5109-1	SAMP	SW846 1010A	1g	1g	1	71	>71. Deg. C	NA	71	71.	71.		
SQ5354-1	SAMP	SW846 1010A	1g	1g	1	71	>71. Deg. C	NA	71	71.	71.		
WG343570-1	MBLANK	SW846 1010A	1.0000mL	1.0000mL	1	71	>71. Deg. C	NA	71	71.	71.		
WG343570-2	LCS	SW846 1010A	1.0000mL	1.0000mL	1	24.70768	25. Deg. C	NA	71	71.	71.		92
WG343570-3	LCSD	SW846 1010A	1.0000mL	1.0000mL	1	24.70768	25. Deg. C	NA	71	71.	71.	0	92

Comments:

SQ5354-1	TCLP DRO
WG343570-1	SQ5108-1
WG343570-2	SQ5108-1
WG343570-3	SQ5108-1

Entered by: CJB Date: 10-5-23 Accepted by: RAD Date: 10/6/23

KATAHDIN ANALYTICAL SERVICES, INC. - FLASHPOINT – CLOSED CUP LOGBOOK

Method: SW846 1010A (ASTM D 93-79)	PQL: 25 Degrees Celsius	Thermometer ID: ALC46
p-XYLENE: 27 Degrees Celsius	Ambient Barometric Pressure (*) = 768-858 mm Hg 30.27 (in. of Hg) X (25.4 mm/in)	WG343570 → RG24346
p-XYLENE Lot Number: SWL4182		

Sample ID	Analysis Time	Start Temperature (°C)	End Temperature (°C)	Flash? (Check appropriate box & record temp.)			Reported Flashpoint Corrected For Ambient Barometric Pressure	ASTM D 93-79 Method A or B	Comments
				YES	Temp.(°C)	NO			
p-Xylene (LCS)	11:46	25	25	✓	25		24.707686	A	
p-Xylene (LCS)	11:52	25	25	✓	25		24.707686		
Method Blank	11:56	25	71			✓			
SQ5108-1	12:07	25	71			✓			
SQ5109-1	13:23	25	71			✓			
SQ5354-1	14:26	25	71			✓			
							CJB	10/5/23	

* = Ambient Pressure of the laboratory at the time of the test. When the pressure differs from 760 mm Hg, correct the flashpoint as follows: Corrected Flashpoint = (Observed Flashpoint in °C) + 0.033 (760 - the ambient barometric pressure in mm Hg).

0.033(-8.858) = -0.292314

Analyst CJB Date 10-5-23

Reviewed By RAD Date 10/6/23

WL-029 – REVISION 3 – 02/12/2023

Helen Douglas
Mabbett & Associates, Inc.
105 Central Street
Suite 4100
Stonham,MA 02180-1260

Katahdin Lab Number:	SQ5564
Project Name:	Former Dow AFB
Project Manager:	Heather Manz
Sample Receipt Date(s):	October 12, 2023

The following information is enclosed:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Leslie Dimond

Leslie Dimond - Quality Assurance Officer

11/10/2023

Date

NARRATIVE
KATAHDIN ANALYTICAL SERVICES
MABBETT & ASSOCIATES INC.
FORMER DOW AFB
SQ5564

Sample Receipt

The following samples were received on October 12, 2023 and were logged in under Katahdin Analytical Services work order number SQ5564 for a hardcopy due date of November 09, 2023.

KATAHDIN Sample No.	MABBETT Sample Identification
SQ5564-1	DOW-PFAS-1012
SQ5564-2	DOW-PFAS-1012
SQ5564-3	DOW-SWC-01

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAP standards unless otherwise noted in this narrative or in the Report of Analysis.

We certify that the test results provided in this report are accredited under the laboratory's ISO/IEC 17025:2017 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation L2223.

Analytes which are reported but not listed on our ANAB scope of accreditation will be "^" flagged and the following language will be included in the case narrative for all DoD compliant work: "^" Indicates this analyte is not included on Katahdin Analytical Services DoD-ELAP Scope of Accreditation.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Heather Manz**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of Work Order SQ5564 were analyzed in accordance with U.S. EPA, Method 1633 Draft II, and/or for the specific methods listed below or on the Report of Analysis.

1633 Analysis

Sample SQ5564-1DL had low recoveries for several of the extracted internal standards due to the dilution. Since the recoveries were above 5% and the recoveries in the non-diluted analysis were acceptable, no further action was taken.

The LCS WG344492-3 had high recoveries for seven target analytes that were outside of the method acceptance limits. Since a high recovery would indicate a high bias and the target analytes were not detected in the associated sample, no further action was taken.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Wet Chemistry Analysis

The samples of Katahdin Work Order SQ5564 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for total solids were performed according to "Standard Methods for the Examination of Water and Wastewater", 15th, 16th, 17th, 18th, 19th, and 20th editions, 1980, 1985, 1989, 1992, 1995, 1999. APHA-AWWA-WPCF.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Limit of Quantitation (LOQ) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U LOD", where "LOD" is the numerical value of the Limit of Detection.

All quality control criteria were met. All analyses were performed within analytical holding time.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Quality Assurance Officer, or their designee, as verified by the following signature.

Leslie Dimond *Nov 10, 2023*

Leslie Dimond
Quality Assurance Officer

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL, "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery or percent RPD (relative percent difference) was outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

And/or

J Used for Dual Column analytes when there is a greater than 40% difference for detected concentrations between the two GC/HPLC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

I Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration (ICAL).

D Indicates that the flagged compound did not meet DoD criteria in the corresponding Initial Calibration Verification (ICV).

C Indicates that the flagged compound did not meet DoD criteria in the corresponding opening Calibration Verification (CV).

V Indicates that the flagged compound did not meet DoD criteria in the corresponding closing Calibration Verification (CV).

L/LL Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M/MM Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike (MS) and/or Matrix Spike Duplicate MSD) prepared and/or analyzed concurrently with the native sample.

H Indicates the flagged compound was detected on the primary column but was not detected on the confirmation column therefore the compound is not reported as a positive detection. (SW846 8330A/B only)

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client. Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 Please refer to cover letter or narrative for further information.

H_ Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.
H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit	NOD	No Odor Detected
NFL	No Free Liquid Present	FLP	Free Liquid Present	TON	Threshold Odor Number

D-1 As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

D-4 The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

D-5 The seed control factor did not meet the method criteria of greater than 2.0 mg/L of dissolved oxygen (DO) uptake over the five day period of incubation. The dilution closest to meeting the criteria was used to estimate the seed control factor.

X1 The weight difference between dry weights after measuring a third dry weight is greater than 0.001 g. [TS-AQ, TSS, TDS]

X2 The weight difference between dry weights after measuring a third dry weight is greater than 0.05 g. [TS-ME]

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5564
Lab ID: SQ5564-1
Client ID: DOW-PFAS-1012
Matrix: AQ
Lab File ID: 1LC00771

Sample Date: 12-OCT-23
Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Report Date: 09-NOV-23
Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
11Cl-PF3OUdS	U	5.4	ng/L	1	8	7.2	0.54	5.4
3:3FTCA	UL	6.7	ng/L	1	10	8.9	1.2	6.7
4:2 FTS	J	6.9	ng/L	1	8	7.2	2.3	5.4
5:3FTCA	UL	34	ng/L	1	50	45.	18.	34.
6:2 FTS		200	ng/L	1	8	7.2	2.5	5.4
7:3FTCA	UL	34	ng/L	1	50	45.	18.	34.
8:2 FTS		8.5	ng/L	1	8	7.2	2.4	5.4
9Cl-PF3ONS	U	5.4	ng/L	1	8	7.2	1.2	5.4
ADONA	UL	5.4	ng/L	1	8	7.2	2.4	5.4
GenX (HFPO-DA)	UL	5.4	ng/L	1	8	7.2	3.0	5.4
NEtFOSA	UL	1.3	ng/L	1	2	1.8	0.73	1.3
NEtFOSAA	U	1.3	ng/L	1	2	1.8	0.67	1.3
NEtFOSE	U	13	ng/L	1	20	18.	6.8	13.
NFDHA	U	2.7	ng/L	1	4	3.6	1.5	2.7
NMeFOSA	UL	1.3	ng/L	1	2	1.8	0.72	1.3
NMeFOSAA	U	1.3	ng/L	1	2	1.8	0.67	1.3
NMeFOSE	U	13	ng/L	1	20	18.	9.8	13.
PFBA		37	ng/L	1	8	7.2	2.2	5.4
PFBS		120	ng/L	1	2	1.8	0.46	1.3
PFDA	J	0.71	ng/L	1	2	1.8	0.57	1.3
PFDoA	U	1.3	ng/L	1	2	1.8	0.98	1.3
PFDoS	U	1.3	ng/L	1	2	1.8	0.36	1.3
PFDS	U	1.3	ng/L	1	2	1.8	0.37	1.3
PFEESA	U	2.7	ng/L	1	4	3.6	1.1	2.7
PFHpA		48	ng/L	1	2	1.8	0.50	1.3
PFHpS		42	ng/L	1	2	1.8	0.76	1.3
PFHxA		210	ng/L	1	2	1.8	0.65	1.3
Total PFHxS		1100	ng/L	1	2	1.8	0.11	1.3
PFMBA	U	2.7	ng/L	1	4	3.6	1.4	2.7
PFMPA	U	2.7	ng/L	1	4	3.6	1.2	2.7
PFNA		7.6	ng/L	1	2	1.8	0.64	1.3
PFNS	U	1.3	ng/L	1	2	1.8	0.41	1.3
PFOA		190	ng/L	1	2	1.8	0.81	1.3
PFOS	E	1300	ng/L	1	2	1.8	0.70	1.3
PFOSA		24	ng/L	1	2	1.8	0.84	1.3

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Report of Analytical Results

SDG: SQ5564
Lab ID: SQ5564-1
Client ID: DOW-PFAS-1012
Matrix: AQ
Lab File ID: 1LC00771

Sample Date: 12-OCT-23
Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Report Date: 09-NOV-23
Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PFPeA		86	ng/L	1	4	3.6	1.2	2.7
PFPeS		160	ng/L	1	2	1.8	0.62	1.3
PFTeDA	U	1.3	ng/L	1	2	1.8	0.45	1.3
PFTrDA	U	1.3	ng/L	1	2	1.8	0.69	1.3
PFUnA	U	1.3	ng/L	1	2	1.8	0.98	1.3
M-4:2 FTS-13C2		153.	%					
M-6:2 FTS-13C2		83.0	%					
M-8:2 FTS-13C2		106.	%					
M-GenX-13C3 (HFPO-DA)		73.1	%					
M-NEtFOSAA-D5		114.	%					
M-NEtFOSA-D5		60.2	%					
M-NEtFOSE-D9		62.4	%					
M-NMeFOSAA-D3		102.	%					
M-NMeFOSA-D3		70.3	%					
M-NMeFOSE-D7		65.7	%					
M-PFBA-13C4		103.	%					
M-PFBS-13C3		84.8	%					
M-PFDA-13C6		85.1	%					
M-PFDoA-13C2		72.6	%					
M-PFHpA-13C4		90.5	%					
M-PFHxA-13C5		84.9	%					
M-PFHxS-13C3		80.6	%					
M-PFNA-13C9		89.6	%					
M-PFOA-13C8		88.0	%					
M-PFOS-13C8		85.5	%					
M-PFOSA-13C8		85.1	%					
M-PFPeA-13C5		93.6	%					
M-PFTeDA-13C2		52.7	%					
M-PFUnA-13C7		91.3	%					

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Report of Analytical Results

SDG: SQ5564
Lab ID: SQ5564-1DL
Client ID: DOW-PFAS-1012
Matrix: AQ
Lab File ID: 1LC00793

Sample Date: 12-OCT-23
Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Report Date: 09-NOV-23
Analysis Date: 06-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
11Cl-PF3OUdS	U	21	ng/L	4	8	29.	2.1	21.
3:3FTCA	UL	27	ng/L	4	10	36.	5.0	27.
4:2 FTS	U	21	ng/L	4	8	29.	9.3	21.
5:3FTCA	UL	130	ng/L	4	50	180	72.	130
6:2 FTS		190	ng/L	4	8	29.	10.	21.
7:3FTCA	UL	130	ng/L	4	50	180	72.	130
8:2 FTS	U	21	ng/L	4	8	29.	9.6	21.
9Cl-PF3ONS	U	21	ng/L	4	8	29.	4.6	21.
ADONA	UL	21	ng/L	4	8	29.	9.6	21.
GenX (HFPO-DA)	UL	21	ng/L	4	8	29.	12.	21.
NEtFOSA	UL	5.4	ng/L	4	2	7.2	2.9	5.4
NEtFOSAA	U	5.4	ng/L	4	2	7.2	2.7	5.4
NEtFOSE	U	54	ng/L	4	20	72.	27.	54.
NFDHA	U	11	ng/L	4	4	14.	6.1	11.
NMeFOSA	UL	5.4	ng/L	4	2	7.2	2.9	5.4
NMeFOSAA	U	5.4	ng/L	4	2	7.2	2.7	5.4
NMeFOSE	U	54	ng/L	4	20	72.	39.	54.
PFBA		37	ng/L	4	8	29.	8.9	21.
PFBS		120	ng/L	4	2	7.2	1.8	5.4
PFDA	U	5.4	ng/L	4	2	7.2	2.3	5.4
PFDoA	U	5.4	ng/L	4	2	7.2	3.9	5.4
PFDoS	U	5.4	ng/L	4	2	7.2	1.4	5.4
PFDS	U	5.4	ng/L	4	2	7.2	1.5	5.4
PFEESA	U	11	ng/L	4	4	14.	4.3	11.
PFHpA		46	ng/L	4	2	7.2	2.0	5.4
PFHpS		49	ng/L	4	2	7.2	3.0	5.4
PFHxA		220	ng/L	4	2	7.2	2.6	5.4
Total PFHxS		1100	ng/L	4	2	7.2	0.43	5.4
PFMBA	U	11	ng/L	4	4	14.	5.7	11.
PFMPA	U	11	ng/L	4	4	14.	4.6	11.
PFNA		8.1	ng/L	4	2	7.2	2.6	5.4
PFNS	U	5.4	ng/L	4	2	7.2	1.6	5.4
PFOA		190	ng/L	4	2	7.2	3.2	5.4
PFOS		1600	ng/L	4	2	7.2	2.8	5.4
PFOSA		24	ng/L	4	2	7.2	3.4	5.4

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Report of Analytical Results

SDG: SQ5564
Lab ID: SQ5564-1DL
Client ID: DOW-PFAS-1012
Matrix: AQ
Lab File ID: 1LC00793

Sample Date: 12-OCT-23
Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Report Date: 09-NOV-23
Analysis Date: 06-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PFPeA		83	ng/L	4	4	14.	5.0	11.
PFPeS		150	ng/L	4	2	7.2	2.5	5.4
PFTeDA	U	5.4	ng/L	4	2	7.2	1.8	5.4
PFTrDA	U	5.4	ng/L	4	2	7.2	2.8	5.4
PFUnA	U	5.4	ng/L	4	2	7.2	3.9	5.4
M-4:2 FTS-13C2	*	19.3	%					
M-6:2 FTS-13C2	*	18.3	%					
M-8:2 FTS-13C2	*	16.7	%					
M-GenX-13C3 (HFPO-DA)	*	18.4	%					
M-NEtFOSAA-D5		17.9	%					
M-NEtFOSA-D5		14.6	%					
M-NEtFOSE-D9		14.6	%					
M-NMeFOSAA-D3	*	21.5	%					
M-NMeFOSA-D3		16.9	%					
M-NMeFOSE-D7		15.6	%					
M-PFBA-13C4		100.	%					
M-PFBS-13C3	*	18.8	%					
M-PFDA-13C6	*	19.3	%					
M-PFDoA-13C2		15.1	%					
M-PFHpA-13C4	*	19.0	%					
M-PFHxA-13C5	*	19.6	%					
M-PFHxS-13C3	*	19.2	%					
M-PFNA-13C9	*	18.2	%					
M-PFOA-13C8	*	19.9	%					
M-PFOS-13C8	*	18.5	%					
M-PFOSA-13C8	*	20.7	%					
M-PFPeA-13C5	*	19.4	%					
M-PFTeDA-13C2		11.7	%					
M-PFUnA-13C7	*	17.6	%					

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Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5564
Lab ID: SQ5564-2RA
Client ID: DOW-PFAS-1012
Matrix: SL
Lab File ID: 1LC00790

Sample Date: 12-OCT-23
Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Report Date: 09-NOV-23
Analysis Date: 06-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: 78.

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
11Cl-PF3OUdS	U	0.60	ng/g	1	.8	0.80	0.12	0.60
3:3FTCA	U	0.75	ng/g	1	1	1.0	0.27	0.75
4:2 FTS	U	0.60	ng/g	1	.8	0.80	0.31	0.60
5:3FTCA	U	3.7	ng/g	1	5	5.0	0.72	3.7
6:2 FTS		50	ng/g	1	.8	0.80	0.35	0.60
7:3FTCA	U	3.7	ng/g	1	5	5.0	0.41	3.7
8:2 FTS	U	0.60	ng/g	1	.8	0.80	0.30	0.60
9Cl-PF3ONS	U	0.60	ng/g	1	.8	0.80	0.20	0.60
ADONA	U	0.60	ng/g	1	.8	0.80	0.30	0.60
GenX (HFPO-DA)	U	6.0	ng/g	1	.8	0.80	0.33	6.0
NEtFOSA	U	0.15	ng/g	1	.2	0.20	0.079	0.15
NEtFOSAA	U	0.15	ng/g	1	.2	0.20	0.066	0.15
NEtFOSE	U	1.5	ng/g	1	2	2.0	0.79	1.5
NFDHA	U	0.30	ng/g	1	.4	0.40	0.18	0.30
NMeFOSA	U	0.15	ng/g	1	.2	0.20	0.078	0.15
NMeFOSAA	U	0.15	ng/g	1	.2	0.20	0.080	0.15
NMeFOSE	U	1.5	ng/g	1	2	2.0	1.1	1.5
PFBA	U	0.60	ng/g	1	.8	0.80	0.31	0.60
PFBS	U	0.15	ng/g	1	.2	0.20	0.070	0.15
PFDA	U	0.15	ng/g	1	.2	0.20	0.073	0.15
PFDoA	U	0.15	ng/g	1	.2	0.20	0.095	0.15
PFDoS	U	0.15	ng/g	1	.2	0.20	0.039	0.15
PFDS	U	0.15	ng/g	1	.2	0.20	0.049	0.15
PFEESA	U	0.30	ng/g	1	.4	0.40	0.12	0.30
PFHpA	U	0.15	ng/g	1	.2	0.20	0.094	0.15
PFHpS	U	0.15	ng/g	1	.2	0.20	0.074	0.15
PFHxA		0.33	ng/g	1	.2	0.20	0.079	0.15
Total PFHxS		1.0	ng/g	1	.2	0.20	0.013	0.15
PFMBA	U	0.30	ng/g	1	.4	0.40	0.16	0.30
PFMPA	U	0.30	ng/g	1	.4	0.40	0.14	0.30
PFNA	U	0.15	ng/g	1	.2	0.20	0.070	0.15
PFNS	U	0.15	ng/g	1	.2	0.20	0.049	0.15
PFOA		0.38	ng/g	1	.2	0.20	0.11	0.15
PFOS		4.8	ng/g	1	.2	0.20	0.077	0.15
PFOSA	J	0.13	ng/g	1	.2	0.20	0.086	0.15

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Report of Analytical Results

SDG: SQ5564
Lab ID: SQ5564-2RA
Client ID: DOW-PFAS-1012
Matrix: SL
Lab File ID: 1LC00790

Sample Date: 12-OCT-23
Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Report Date: 09-NOV-23
Analysis Date: 06-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: 78.

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PFPeA	U	0.30	ng/g	1	.4	0.40	0.18	0.30
PFPeS	U	0.15	ng/g	1	.2	0.20	0.083	0.15
PFTeDA	U	0.15	ng/g	1	.2	0.20	0.080	0.15
PFTrDA	U	0.15	ng/g	1	.2	0.20	0.11	0.15
PFUnA	U	0.15	ng/g	1	.2	0.20	0.11	0.15
M-4:2 FTS-13C2		40.2	%					
M-6:2 FTS-13C2		44.1	%					
M-8:2 FTS-13C2		48.6	%					
M-GenX-13C3 (HFPO-DA)		46.5	%					
M-NEtFOSAA-D5		55.8	%					
M-NEtFOSA-D5		30.5	%					
M-NEtFOSE-D9		31.8	%					
M-NMeFOSAA-D3		53.0	%					
M-NMeFOSA-D3		35.5	%					
M-NMeFOSE-D7		35.7	%					
M-PFBA-13C4		99.8	%					
M-PFBS-13C3		42.8	%					
M-PFDA-13C6		55.1	%					
M-PFDoA-13C2		39.8	%					
M-PFHpA-13C4		51.3	%					
M-PFHxA-13C5		48.4	%					
M-PFHxS-13C3		48.4	%					
M-PFNA-13C9		50.2	%					
M-PFOA-13C8		54.6	%					
M-PFOS-13C8		49.4	%					
M-PFOSA-13C8		50.9	%					
M-PFPeA-13C5		45.8	%					
M-PFTeDA-13C2		29.2	%					
M-PFUnA-13C7		47.6	%					

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Report of Analytical Results

SDG: SQ5564
Lab ID: SQ5564-3
Client ID: DOW-SWC-01
Matrix: SL
Lab File ID: 1LC00773

Sample Date: 21-SEP-23
Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Report Date: 09-NOV-23
Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: 80.

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
11Cl-PF3OUdS	U	0.60	ng/g	1	.8	0.80	0.12	0.60
3:3FTCA	U	0.75	ng/g	1	1	1.0	0.27	0.75
4:2 FTS	U	0.60	ng/g	1	.8	0.80	0.31	0.60
5:3FTCA	U	3.7	ng/g	1	5	5.0	0.72	3.7
6:2 FTS	U	0.60	ng/g	1	.8	0.80	0.35	0.60
7:3FTCA	U	3.7	ng/g	1	5	5.0	0.41	3.7
8:2 FTS	U	0.60	ng/g	1	.8	0.80	0.30	0.60
9Cl-PF3ONS	U	0.60	ng/g	1	.8	0.80	0.20	0.60
ADONA	U	0.60	ng/g	1	.8	0.80	0.30	0.60
GenX (HFPO-DA)	U	6.0	ng/g	1	.8	0.80	0.33	6.0
NEtFOSA	U	0.15	ng/g	1	.2	0.20	0.079	0.15
NEtFOSAA	U	0.15	ng/g	1	.2	0.20	0.066	0.15
NEtFOSE	U	1.5	ng/g	1	2	2.0	0.79	1.5
NFDHA	U	0.30	ng/g	1	.4	0.40	0.18	0.30
NMeFOSA	U	0.15	ng/g	1	.2	0.20	0.078	0.15
NMeFOSAA	U	0.15	ng/g	1	.2	0.20	0.080	0.15
NMeFOSE	U	1.5	ng/g	1	2	2.0	1.1	1.5
PFBA	U	0.60	ng/g	1	.8	0.80	0.31	0.60
PFBS	J	0.073	ng/g	1	.2	0.20	0.070	0.15
PFDA	U	0.15	ng/g	1	.2	0.20	0.073	0.15
PFDoA	U	0.15	ng/g	1	.2	0.20	0.095	0.15
PFDoS	U	0.15	ng/g	1	.2	0.20	0.039	0.15
PFDS	U	0.15	ng/g	1	.2	0.20	0.049	0.15
PFEESA	U	0.30	ng/g	1	.4	0.40	0.12	0.30
PFHpA	U	0.15	ng/g	1	.2	0.20	0.094	0.15
PFHpS	U	0.15	ng/g	1	.2	0.20	0.074	0.15
PFHxA	J	0.19	ng/g	1	.2	0.20	0.079	0.15
Total PFHxS		1.0	ng/g	1	.2	0.20	0.013	0.15
PFMBA	U	0.30	ng/g	1	.4	0.40	0.16	0.30
PFMPA	U	0.30	ng/g	1	.4	0.40	0.14	0.30
PFNA	U	0.15	ng/g	1	.2	0.20	0.070	0.15
PFNS	U	0.15	ng/g	1	.2	0.20	0.049	0.15
PFOA	J	0.17	ng/g	1	.2	0.20	0.11	0.15
PFOS		2.8	ng/g	1	.2	0.20	0.077	0.15
PFOSA	J	0.088	ng/g	1	.2	0.20	0.086	0.15

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Report of Analytical Results

SDG: SQ5564
Lab ID: SQ5564-3
Client ID: DOW-SWC-01
Matrix: SL
Lab File ID: 1LC00773

Sample Date: 21-SEP-23
Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Report Date: 09-NOV-23
Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: 80.

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PFPeA	U	0.30	ng/g	1	.4	0.40	0.18	0.30
PFPeS	J	0.085	ng/g	1	.2	0.20	0.083	0.15
PFTeDA	U	0.15	ng/g	1	.2	0.20	0.080	0.15
PFTrDA	U	0.15	ng/g	1	.2	0.20	0.11	0.15
PFUnA	U	0.15	ng/g	1	.2	0.20	0.11	0.15
M-4:2 FTS-13C2		46.9	%					
M-6:2 FTS-13C2		51.2	%					
M-8:2 FTS-13C2		49.0	%					
M-GenX-13C3 (HFPO-DA)		49.9	%					
M-NEtFOSAA-D5		65.2	%					
M-NEtFOSA-D5		30.3	%					
M-NEtFOSE-D9		40.1	%					
M-NMeFOSAA-D3		49.6	%					
M-NMeFOSA-D3		34.2	%					
M-NMeFOSE-D7		39.7	%					
M-PFBA-13C4		100.	%					
M-PFBS-13C3		46.0	%					
M-PFDA-13C6		54.4	%					
M-PFDoA-13C2		43.7	%					
M-PFHpA-13C4		51.4	%					
M-PFHxA-13C5		50.8	%					
M-PFHxS-13C3		49.0	%					
M-PFNA-13C9		55.5	%					
M-PFOA-13C8		53.5	%					
M-PFOS-13C8		49.6	%					
M-PFOSA-13C8		47.1	%					
M-PFPeA-13C5		51.7	%					
M-PFTeDA-13C2		38.5	%					
M-PFUnA-13C7		52.4	%					

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Method Blank Summary

Lab Name : Katahdin Analytical Services
Lab File ID : 1LC00765
Instrument ID : LCMS-1
Matrix : AQ
Extraction method : 1633

SDG : SQ5564
Lab Sample ID : WG344492-1
Date Extracted : 27-OCT-23
Date Analyzed : 02-NOV-23
Time Analyzed : 18:01

This Method Blank applies to the following samples and QC samples:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG344492-2	1LC00766	11/02/23	18:14
Laboratory Control S	WG344492-3	1LC00767	11/02/23	18:27
DOW-PFAS-1012	SQ5564-1	1LC00771	11/02/23	19:17
DOW-PFAS-1012	SQ5564-1DL	1LC00793	11/06/23	20:59

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Report of Analytical Results

SDG: SQ5564
Lab ID: WG344492-1
Client ID: Method Blank
Matrix: AQ
Lab File ID: 1LC00765

Sample Date: N/A
Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Report Date: 09-NOV-23
Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
11Cl-PF3OUdS	U	6.0	ng/L	1	8	8.0	0.60	6.0
3:3FTCA	U	7.5	ng/L	1	10	10.	1.4	7.5
4:2 FTS	U	6.0	ng/L	1	8	8.0	2.6	6.0
5:3FTCA	U	38	ng/L	1	50	50.	20.	38.
6:2 FTS	U	6.0	ng/L	1	8	8.0	2.8	6.0
7:3FTCA	U	38	ng/L	1	50	50.	20.	38.
8:2 FTS	U	6.0	ng/L	1	8	8.0	2.7	6.0
9Cl-PF3ONS	U	6.0	ng/L	1	8	8.0	1.3	6.0
ADONA	U	6.0	ng/L	1	8	8.0	2.7	6.0
GenX (HFPO-DA)	U	6.0	ng/L	1	8	8.0	3.3	6.0
NEtFOSA	U	1.5	ng/L	1	2	2.0	0.82	1.5
NEtFOSAA	U	1.5	ng/L	1	2	2.0	0.75	1.5
NEtFOSE	U	15	ng/L	1	20	20.	7.6	15.
NFDHA	U	3.0	ng/L	1	4	4.0	1.7	3.0
NMeFOSA	U	1.5	ng/L	1	2	2.0	0.80	1.5
NMeFOSAA	U	1.5	ng/L	1	2	2.0	0.75	1.5
NMeFOSE	U	15	ng/L	1	20	20.	11.	15.
PFBA	U	6.0	ng/L	1	8	8.0	2.5	6.0
PFBS	U	1.5	ng/L	1	2	2.0	0.51	1.5
PFDA	U	1.5	ng/L	1	2	2.0	0.64	1.5
PFDoA	U	1.5	ng/L	1	2	2.0	1.1	1.5
PFDoS	U	1.5	ng/L	1	2	2.0	0.40	1.5
PFDS	U	1.5	ng/L	1	2	2.0	0.41	1.5
PFEESA	U	3.0	ng/L	1	4	4.0	1.2	3.0
PFHpA	U	1.5	ng/L	1	2	2.0	0.56	1.5
PFHpS	U	1.5	ng/L	1	2	2.0	0.85	1.5
PFHxA	U	1.5	ng/L	1	2	2.0	0.73	1.5
Total PFHxS	U	1.5	ng/L	1	2	2.0	0.12	1.5
PFMBA	U	3.0	ng/L	1	4	4.0	1.6	3.0
PFMPA	U	3.0	ng/L	1	4	4.0	1.3	3.0
PFNA	U	1.5	ng/L	1	2	2.0	0.72	1.5
PFNS	U	1.5	ng/L	1	2	2.0	0.46	1.5
PFOA	U	1.5	ng/L	1	2	2.0	0.91	1.5
PFOS	U	1.5	ng/L	1	2	2.0	0.78	1.5
PFOSA	U	1.5	ng/L	1	2	2.0	0.94	1.5

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Report of Analytical Results

SDG: SQ5564
Lab ID: WG344492-1
Client ID: Method Blank
Matrix: AQ
Lab File ID: 1LC00765

Sample Date: N/A
Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Report Date: 09-NOV-23
Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PFPeA	U	3.0	ng/L	1	4	4.0	1.4	3.0
PFPeS	U	1.5	ng/L	1	2	2.0	0.70	1.5
PFTeDA	U	1.5	ng/L	1	2	2.0	0.50	1.5
PFTrDA	U	1.5	ng/L	1	2	2.0	0.77	1.5
PFUnA	U	1.5	ng/L	1	2	2.0	1.1	1.5
M-4:2 FTS-13C2		105.	%					
M-6:2 FTS-13C2		96.6	%					
M-8:2 FTS-13C2		110.	%					
M-GenX-13C3 (HFPO-DA)		98.5	%					
M-NEtFOSAA-D5		185.	%					
M-NEtFOSA-D5		63.0	%					
M-NEtFOSE-D9		82.8	%					
M-NMeFOSAA-D3		113.	%					
M-NMeFOSA-D3		73.4	%					
M-NMeFOSE-D7		90.6	%					
M-PFBA-13C4		101.	%					
M-PFBS-13C3		87.4	%					
M-PFDA-13C6		97.6	%					
M-PFDoA-13C2		102.	%					
M-PFHpA-13C4		104.	%					
M-PFHxA-13C5		103.	%					
M-PFHxS-13C3		94.9	%					
M-PFNA-13C9		102.	%					
M-PFOA-13C8		101.	%					
M-PFOS-13C8		90.5	%					
M-PFOSA-13C8		105.	%					
M-PFPeA-13C5		104.	%					
M-PFTeDA-13C2		97.2	%					
M-PFUnA-13C7		97.6	%					

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LCS Recovery Report

Lab ID: WG344492-2
Client ID: LCS1
SDG: SQ5564
LCS File ID: 1LC00766
Report Date: 09-NOV-23

Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: AQ

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
11Cl-PF3OUdS	110.	15.120	16.6	ng/L	36-158
3:3FTCA	113.	20.000	22.6	ng/L	32-161
4:2 FTS	112.	15.008	16.7	ng/L	52-158
5:3FTCA	116.	100.00	116.	ng/L	39-156
6:2 FTS	118.	15.200	17.9	ng/L	48-158
7:3FTCA	116.	100.00	116.	ng/L	36-149
8:2 FTS	107.	15.360	16.5	ng/L	46-165
9Cl-PF3ONS	124.	14.960	18.5	ng/L	44-167
ADONA	141.	15.120	21.3	ng/L	61-148
GenX (HFPO-DA)	124.	16.000	19.8	ng/L	58-154
NEtFOSA	106.	4.0000	4.23	ng/L	49-156
NEtFOSAA	108.	4.0000	4.32	ng/L	51-154
NEtFOSE	107.	40.000	42.8	ng/L	60-147
NFDHA	95.1	8.0000	7.61	ng/L	47-160
NMeFOSA	110.	4.0000	4.42	ng/L	54-155
NMeFOSAA	108.	4.0000	4.32	ng/L	32-160
NMeFOSE	112.	40.000	44.6	ng/L	56-151
PFBA	110.	16.000	17.6	ng/L	44-157
PFBS	119.	3.5480	4.21	ng/L	63-145
PFDA	110.	4.0000	4.42	ng/L	43-158
PFDoA	112.	4.0000	4.50	ng/L	60-141
PFDoS	98.6	3.8800	3.82	ng/L	30-138
PFDS	106.	3.8600	4.10	ng/L	50-144
PFEESA	119.	7.1200	8.44	ng/L	56-144
PFHpA	111.	4.0000	4.46	ng/L	56-150
PFHpS	105.	3.8120	4.01	ng/L	51-150
PFHxA	110.	4.0000	4.41	ng/L	62-149
Total PFHxS	113.	3.656	4.14	ng/L	44-158
PFMBA	110.	8.0000	8.78	ng/L	49-154
PFMPA	106.	8.0000	8.47	ng/L	48-150
PFNA	110.	4.0000	4.39	ng/L	53-157
PFNS	104.	3.8480	4.01	ng/L	46-151
PFOA	111.	4.0000	4.46	ng/L	57-161
PFOS	101.	3.7120	3.74	ng/L	43-162
PFOSA	103.	4.0000	4.11	ng/L	47-163
PFPeA	112.	8.0000	8.96	ng/L	57-148

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LCS Recovery Report

Lab ID: WG344492-2
Client ID: LCS1
SDG: SQ5564
LCS File ID: 1LC00766
Report Date: 09-NOV-23

Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: AQ

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
PFPeS	111.	3.7640	4.17	ng/L	58-144
PFTeDA	118.	4.0000	4.71	ng/L	52-156
PFTrDA	115.	4.0000	4.62	ng/L	52-140
PFUnA	112.	4.0000	4.48	ng/L	50-155
M-4:2 FTS-13C2	87.7				60-200
M-6:2 FTS-13C2	90.0				60-200
M-8:2 FTS-13C2	84.6				50-200
M-GenX-13C3 (HFPO-DA)	76.6				25-160
M-NEtFOSAA-D5	109.				10-200
M-NEtFOSA-D5	58.7				10-130
M-NEtFOSE-D9	72.0				10-150
M-NMeFOSAA-D3	80.9				45-200
M-NMeFOSA-D3	68.4				15-130
M-NMeFOSE-D7	71.3				10-150
M-PFBA-13C4	101.				10-130
M-PFBS-13C3	82.0				55-150
M-PFDA-13C6	84.5				50-140
M-PFDoA-13C2	84.0				10-150
M-PFHpA-13C4	86.8				55-150
M-PFHxA-13C5	86.3				55-150
M-PFHxS-13C3	84.3				55-150
M-PFNA-13C9	88.5				55-140
M-PFOA-13C8	86.0				60-140
M-PFOS-13C8	85.1				45-140
M-PFOSA-13C8	79.2				30-130
M-PFPeA-13C5	89.4				35-150
M-PFTeDA-13C2	75.0				10-130
M-PFUnA-13C7	91.2				30-140

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LCS Recovery Report

Lab ID: WG344492-3
Client ID: LCS2
SDG: SQ5564
LCS File ID: 1LC00767
Report Date: 09-NOV-23

Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: AQ

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
11Cl-PF3OUdS	139.	94.500	132.	ng/L	46-156
3:3FTCA	* 135.	125.00	169.	ng/L	62-129
4:2 FTS	136.	93.800	128.	ng/L	67-146
5:3FTCA	* 138.	625.00	865.	ng/L	63-134
6:2 FTS	140.	95.000	134.	ng/L	61-151
7:3FTCA	* 139.	625.00	868.	ng/L	50-138
8:2 FTS	141.	96.000	135.	ng/L	63-152
9Cl-PF3ONS	145.	93.500	136.	ng/L	56-156
ADONA	* 159.	94.500	151.	ng/L	68-146
GenX (HFPO-DA)	* 147.	100.00	147.	ng/L	63-144
NEtFOSA	* 149.	25.000	37.4	ng/L	65-139
NEtFOSAA	139.	25.000	34.7	ng/L	59-146
NEtFOSE	134.	250.00	336.	ng/L	69-137
NFDHA	137.	50.000	68.7	ng/L	48-161
NMeFOSA	* 151.	25.000	37.7	ng/L	63-145
NMeFOSAA	141.	25.000	35.3	ng/L	58-144
NMeFOSE	129.	250.00	323.	ng/L	71-136
PFBA	139.	100.00	139.	ng/L	58-148
PFBS	142.	22.175	31.5	ng/L	62-144
PFDA	134.	25.000	33.6	ng/L	52-147
PFDoA	142.	25.000	35.4	ng/L	64-142
PFDoS	123.	24.250	29.9	ng/L	36-145
PFDS	134.	24.125	32.5	ng/L	51-147
PFEESA	144.	44.500	63.8	ng/L	56-151
PFHpA	140.	25.000	35.1	ng/L	54-154
PFHpS	132.	23.825	31.4	ng/L	55-152
PFHxA	134.	25.000	33.6	ng/L	55-152
Total PFHxS	137.	22.85	31.2	ng/L	57-146
PFMBA	143.	50.000	71.4	ng/L	55-148
PFMPA	135.	50.000	67.6	ng/L	51-145
PFNA	134.	25.000	33.5	ng/L	59-149
PFNS	136.	24.050	32.6	ng/L	52-148
PFOA	134.	25.000	33.6	ng/L	52-161
PFOS	130.	23.200	30.2	ng/L	58-149
PFOSA	129.	25.000	32.3	ng/L	61-148
PFPeA	142.	50.000	71.0	ng/L	54-152

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LCS Recovery Report

Lab ID: WG344492-3
Client ID: LCS2
SDG: SQ5564
LCS File ID: 1LC00767
Report Date: 09-NOV-23

Extract Date: 27-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344492

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: AQ

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
PFPeS	135.	23.525	31.9	ng/L	59-151
PFTeDA	147.	25.000	36.8	ng/L	47-161
PFTrDA	148.	25.000	37.0	ng/L	49-148
PFUnA	143.	25.000	35.9	ng/L	48-159
M-4:2 FTS-13C2	77.6				60-200
M-6:2 FTS-13C2	81.5				60-200
M-8:2 FTS-13C2	76.7				50-200
M-GenX-13C3 (HFPO-DA)	76.9				25-160
M-NEtFOSAA-D5	110.				10-200
M-NEtFOSA-D5	53.9				10-130
M-NEtFOSE-D9	70.2				10-150
M-NMeFOSAA-D3	75.2				45-200
M-NMeFOSA-D3	62.2				15-130
M-NMeFOSE-D7	69.9				10-150
M-PFBA-13C4	100.				10-130
M-PFBS-13C3	77.6				55-150
M-PFDA-13C6	80.1				50-140
M-PFDoA-13C2	77.0				10-150
M-PFHpA-13C4	80.4				55-150
M-PFHxA-13C5	82.0				55-150
M-PFHxS-13C3	79.9				55-150
M-PFNA-13C9	82.4				55-140
M-PFOA-13C8	81.0				60-140
M-PFOS-13C8	80.5				45-140
M-PFOSA-13C8	74.8				30-130
M-PFPeA-13C5	83.2				35-150
M-PFTeDA-13C2	67.9				10-130
M-PFUnA-13C7	79.8				30-140

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Method Blank Summary

Lab Name : Katahdin Analytical Services
Lab File ID : 1LC00768
Instrument ID : LCMS-1
Matrix : SL
Extraction method : 1633

SDG : SQ5564
Lab Sample ID : WG344384-1
Date Extracted : 25-OCT-23
Date Analyzed : 02-NOV-23
Time Analyzed : 18:39

This Method Blank applies to the following samples and QC samples:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG344384-2	1LC00769	11/02/23	18:52
Laboratory Control S	WG344384-3	1LC00770	11/02/23	19:05
DOW-SWC-01	SQ5564-3	1LC00773	11/02/23	19:43
Sample Duplicate	WG344384-4	1LC00774	11/02/23	19:55
DOW-PFAS-1012	SQ5564-2RA	1LC00790	11/06/23	19:30

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ANALYTICAL SERVICES

Report of Analytical Results

SDG: SQ5564
Lab ID: WG344384-1
Client ID: Method Blank
Matrix: SL
Lab File ID: 1LC00768

Sample Date: N/A
Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Report Date: 09-NOV-23
Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
11Cl-PF3OUdS	U	0.60	ng/g	1	.8	0.80	0.12	0.60
3:3FTCA	U	0.75	ng/g	1	1	1.0	0.27	0.75
4:2 FTS	U	0.60	ng/g	1	.8	0.80	0.32	0.60
5:3FTCA	U	3.8	ng/g	1	5	5.0	0.72	3.8
6:2 FTS	U	0.60	ng/g	1	.8	0.80	0.35	0.60
7:3FTCA	U	3.8	ng/g	1	5	5.0	0.41	3.8
8:2 FTS	U	0.60	ng/g	1	.8	0.80	0.30	0.60
9Cl-PF3ONS	U	0.60	ng/g	1	.8	0.80	0.20	0.60
ADONA	U	0.60	ng/g	1	.8	0.80	0.30	0.60
GenX (HFPO-DA)	U	6.0	ng/g	1	.8	0.80	0.33	6.0
NEtFOSA	U	0.15	ng/g	1	.2	0.20	0.079	0.15
NEtFOSAA	U	0.15	ng/g	1	.2	0.20	0.066	0.15
NEtFOSE	U	1.5	ng/g	1	2	2.0	0.79	1.5
NFDHA	U	0.30	ng/g	1	.4	0.40	0.18	0.30
NMeFOSA	U	0.15	ng/g	1	.2	0.20	0.078	0.15
NMeFOSAA	U	0.15	ng/g	1	.2	0.20	0.080	0.15
NMeFOSE	U	1.5	ng/g	1	2	2.0	1.1	1.5
PFBA	U	0.60	ng/g	1	.8	0.80	0.31	0.60
PFBS	U	0.15	ng/g	1	.2	0.20	0.070	0.15
PFDA	U	0.15	ng/g	1	.2	0.20	0.073	0.15
PFDoA	U	0.15	ng/g	1	.2	0.20	0.095	0.15
PFDoS	U	0.15	ng/g	1	.2	0.20	0.039	0.15
PFDS	U	0.15	ng/g	1	.2	0.20	0.049	0.15
PFEESA	U	0.30	ng/g	1	.4	0.40	0.12	0.30
PFHpA	U	0.15	ng/g	1	.2	0.20	0.094	0.15
PFHpS	U	0.15	ng/g	1	.2	0.20	0.074	0.15
PFHxA	U	0.15	ng/g	1	.2	0.20	0.079	0.15
Total PFHxS	U	0.15	ng/g	1	.2	0.20	0.013	0.15
PFMBA	U	0.30	ng/g	1	.4	0.40	0.16	0.30
PFMPA	U	0.30	ng/g	1	.4	0.40	0.14	0.30
PFNA	U	0.15	ng/g	1	.2	0.20	0.070	0.15
PFNS	U	0.15	ng/g	1	.2	0.20	0.049	0.15
PFOA	U	0.15	ng/g	1	.2	0.20	0.11	0.15
PFOS	U	0.15	ng/g	1	.2	0.20	0.077	0.15
PFOSA	U	0.15	ng/g	1	.2	0.20	0.086	0.15

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Report of Analytical Results

SDG: SQ5564
Lab ID: WG344384-1
Client ID: Method Blank
Matrix: SL
Lab File ID: 1LC00768

Sample Date: N/A
Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Report Date: 09-NOV-23
Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
% Solids: N/A

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PFPeA	U	0.30	ng/g	1	.4	0.40	0.18	0.30
PFPeS	U	0.15	ng/g	1	.2	0.20	0.083	0.15
PFTeDA	U	0.15	ng/g	1	.2	0.20	0.080	0.15
PFTrDA	U	0.15	ng/g	1	.2	0.20	0.11	0.15
PFUnA	U	0.15	ng/g	1	.2	0.20	0.11	0.15
M-4:2 FTS-13C2		88.2	%					
M-6:2 FTS-13C2		87.2	%					
M-8:2 FTS-13C2		77.9	%					
M-GenX-13C3 (HFPO-DA)		90.8	%					
M-NEtFOSAA-D5		108.	%					
M-NEtFOSA-D5		39.7	%					
M-NEtFOSE-D9		66.7	%					
M-NMeFOSAA-D3		75.8	%					
M-NMeFOSA-D3		45.4	%					
M-NMeFOSE-D7		68.4	%					
M-PFBA-13C4		100.	%					
M-PFBS-13C3		85.3	%					
M-PFDA-13C6		87.9	%					
M-PFDoA-13C2		73.4	%					
M-PFHpA-13C4		92.8	%					
M-PFHxA-13C5		94.3	%					
M-PFHxS-13C3		86.6	%					
M-PFNA-13C9		90.1	%					
M-PFOA-13C8		91.6	%					
M-PFOS-13C8		80.4	%					
M-PFOSA-13C8		72.1	%					
M-PFPeA-13C5		97.4	%					
M-PFTeDA-13C2		69.4	%					
M-PFUnA-13C7		84.8	%					

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LCS Recovery Report

Lab ID: WG344384-2
Client ID: LCS1
SDG: SQ5564
LCS File ID: 1LC00769
Report Date: 09-NOV-23

Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: SL

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
11Cl-PF3OUdS	100.	1.5120	1.52	ng/g	40-150
3:3FTCA	108.	2.0000	2.16	ng/g	40-150
4:2 FTS	102.	1.5008	1.54	ng/g	40-150
5:3FTCA	111.	10.000	11.1	ng/g	40-150
6:2 FTS	127.	1.5200	1.93	ng/g	40-150
7:3FTCA	103.	10.000	10.3	ng/g	40-150
8:2 FTS	104.	1.5360	1.60	ng/g	40-150
9Cl-PF3ONS	111.	1.4960	1.66	ng/g	40-150
ADONA	119.	1.5120	1.80	ng/g	40-150
GenX (HFPO-DA)	107.	1.6000	1.71	ng/g	40-150
NEtFOSA	89.4	0.40000	0.358	ng/g	40-150
NEtFOSAA	99.2	0.40000	0.397	ng/g	40-150
NEtFOSE	100.	4.0000	4.00	ng/g	40-150
NFDHA	103.	0.80000	0.827	ng/g	40-150
NMeFOSA	90.8	0.40000	0.363	ng/g	40-150
NMeFOSAA	104.	0.40000	0.416	ng/g	40-150
NMeFOSE	102.	4.0000	4.08	ng/g	40-150
PFBA	103.	1.6000	1.66	ng/g	40-150
PFBS	107.	0.35480	0.381	ng/g	40-150
PFDA	103.	0.40000	0.412	ng/g	40-150
PFDoA	107.	0.40000	0.429	ng/g	40-150
PFDoS	94.4	0.38800	0.366	ng/g	40-150
PFDS	94.6	0.38600	0.365	ng/g	40-150
PFEESA	106.	0.71200	0.754	ng/g	40-150
PFHpA	106.	0.40000	0.424	ng/g	40-150
PFHpS	103.	0.38120	0.392	ng/g	40-150
PFHxA	103.	0.40000	0.413	ng/g	40-150
Total PFHxS	107.	0.3656	0.391	ng/g	40-150
PFMBA	104.	0.80000	0.837	ng/g	40-150
PFMPA	100.	0.80000	0.804	ng/g	40-150
PFNA	103.	0.40000	0.414	ng/g	40-150
PFNS	99.7	0.38480	0.384	ng/g	40-150
PFOA	104.	0.40000	0.414	ng/g	40-150
PFOS	103.	0.37120	0.383	ng/g	40-150
PFOSA	101.	0.40000	0.405	ng/g	40-150
PFPeA	106.	0.80000	0.850	ng/g	40-150

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LCS Recovery Report

Lab ID: WG344384-2
Client ID: LCS1
SDG: SQ5564
LCS File ID: 1LC00769
Report Date: 09-NOV-23

Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: SL

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
PFPeS	105.	0.37640	0.397	ng/g	40-150
PFTeDA	108.	0.40000	0.431	ng/g	40-150
PFTrDA	98.7	0.40000	0.395	ng/g	40-150
PFUnA	102.	0.40000	0.408	ng/g	40-150
M-4:2 FTS-13C2	73.6				20-150
M-6:2 FTS-13C2	76.2				20-150
M-8:2 FTS-13C2	67.7				20-150
M-GenX-13C3 (HFPO-DA)	70.4				20-150
M-NEtFOSAA-D5	108.				20-150
M-NEtFOSA-D5	36.9				20-150
M-NEtFOSE-D9	60.2				20-150
M-NMeFOSAA-D3	66.0				20-150
M-NMeFOSA-D3	42.2				20-150
M-NMeFOSE-D7	60.4				20-150
M-PFBA-13C4	100.				20-150
M-PFBS-13C3	71.6				20-150
M-PFDA-13C6	71.1				20-150
M-PFDoA-13C2	63.3				20-150
M-PFHpA-13C4	72.4				20-150
M-PFHxA-13C5	72.9				20-150
M-PFHxS-13C3	71.7				20-150
M-PFNA-13C9	72.9				20-150
M-PFOA-13C8	73.0				20-150
M-PFOS-13C8	70.6				20-150
M-PFOSA-13C8	63.3				20-150
M-PFPeA-13C5	75.1				20-150
M-PFTeDA-13C2	64.2				20-150
M-PFUnA-13C7	71.5				20-150

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LCS Recovery Report

Lab ID: WG344384-3
Client ID: LCS2
SDG: SQ5564
LCS File ID: 1LC00770
Report Date: 09-NOV-23

Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: SL

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
11Cl-PF3OUdS	100.	9.4500	9.47	ng/g	40-150
3:3FTCA	114.	12.500	14.2	ng/g	40-150
4:2 FTS	111.	9.3800	10.4	ng/g	40-150
5:3FTCA	114.	62.500	71.4	ng/g	40-150
6:2 FTS	111.	9.5000	10.5	ng/g	40-150
7:3FTCA	111.	62.500	69.6	ng/g	40-150
8:2 FTS	107.	9.6000	10.2	ng/g	40-150
9Cl-PF3ONS	110.	9.3500	10.3	ng/g	40-150
ADONA	126.	9.4500	11.9	ng/g	40-150
GenX (HFPO-DA)	119.	10.000	11.9	ng/g	40-150
NEtFOSA	103.	2.5000	2.58	ng/g	40-150
NEtFOSAA	114.	2.5000	2.84	ng/g	40-150
NEtFOSE	106.	25.000	26.6	ng/g	40-150
NFDHA	96.9	5.0000	4.84	ng/g	40-150
NMeFOSA	106.	2.5000	2.66	ng/g	40-150
NMeFOSAA	112.	2.5000	2.81	ng/g	40-150
NMeFOSE	104.	25.000	26.0	ng/g	40-150
PFBA	109.	10.000	10.9	ng/g	40-150
PFBS	109.	2.2175	2.42	ng/g	40-150
PFDA	107.	2.5000	2.67	ng/g	40-150
PFDoA	112.	2.5000	2.81	ng/g	40-150
PFDoS	94.7	2.4250	2.30	ng/g	40-150
PFDS	95.3	2.4125	2.30	ng/g	40-150
PFEESA	115.	4.4500	5.14	ng/g	40-150
PFHpA	111.	2.5000	2.78	ng/g	40-150
PFHpS	107.	2.3825	2.56	ng/g	40-150
PFHxA	109.	2.5000	2.72	ng/g	40-150
Total PFHxS	109.	2.285	2.50	ng/g	40-150
PFMBA	112.	5.0000	5.62	ng/g	40-150
PFMPA	108.	5.0000	5.39	ng/g	40-150
PFNA	110.	2.5000	2.74	ng/g	40-150
PFNS	101.	2.4050	2.44	ng/g	40-150
PFOA	106.	2.5000	2.65	ng/g	40-150
PFOS	103.	2.3200	2.39	ng/g	40-150
PFOSA	106.	2.5000	2.65	ng/g	40-150
PFPeA	113.	5.0000	5.63	ng/g	40-150

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LCS Recovery Report

Lab ID: WG344384-3
Client ID: LCS2
SDG: SQ5564
LCS File ID: 1LC00770
Report Date: 09-NOV-23

Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: SL

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
PFPeS	109.	2.3525	2.57	ng/g	40-150
PFTeDA	114.	2.5000	2.86	ng/g	40-150
PFTrDA	105.	2.5000	2.62	ng/g	40-150
PFUnA	114.	2.5000	2.84	ng/g	40-150
M-4:2 FTS-13C2	78.3				20-150
M-6:2 FTS-13C2	79.7				20-150
M-8:2 FTS-13C2	76.1				20-150
M-GenX-13C3 (HFPO-DA)	74.2				20-150
M-NEtFOSAA-D5	126.				20-150
M-NEtFOSA-D5	37.8				20-150
M-NEtFOSE-D9	60.3				20-150
M-NMeFOSAA-D3	71.0				20-150
M-NMeFOSA-D3	45.2				20-150
M-NMeFOSE-D7	59.8				20-150
M-PFBA-13C4	101.				20-150
M-PFBS-13C3	77.7				20-150
M-PFDA-13C6	74.3				20-150
M-PFDoA-13C2	65.9				20-150
M-PFHpA-13C4	78.6				20-150
M-PFHxA-13C5	78.4				20-150
M-PFHxS-13C3	79.2				20-150
M-PFNA-13C9	79.1				20-150
M-PFOA-13C8	79.0				20-150
M-PFOS-13C8	79.4				20-150
M-PFOSA-13C8	68.7				20-150
M-PFPeA-13C5	81.0				20-150
M-PFTeDA-13C2	64.8				20-150
M-PFUnA-13C7	72.7				20-150

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Tel:(207) 874-2400 Fax:(207) 775-4029

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ANALYTICAL SERVICES

Sample Duplicate Report

Dup. ID: WG344384-4
Sample ID: SQ5564-3
Client ID: DOW-SWC-01
SDG: SQ5564
Dup. File ID: 1LC00774

Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384
Sample File ID: 1LC00773

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: SL **% Solids:** 80.
Report Date: 09-NOV-23

Compound	Dup. Result	Sample Result	Units	RPD (%)	Limits
11Cl-PF3OUdS	U0.59	U0.60	ng/g	NC	20
3:3FTCA	U0.73	U0.75	ng/g	NC	20
4:2 FTS	U0.59	U0.60	ng/g	NC	20
5:3FTCA	U3.7	U3.7	ng/g	NC	20
6:2 FTS	U0.59	U0.60	ng/g	NC	20
7:3FTCA	U3.7	U3.7	ng/g	NC	20
8:2 FTS	U0.59	U0.60	ng/g	NC	20
9Cl-PF3ONS	U0.59	U0.60	ng/g	NC	20
ADONA	U0.59	U0.60	ng/g	NC	20
GenX (HFPO-DA)	U5.9	U6.0	ng/g	NC	20
NEtFOSA	U0.15	U0.15	ng/g	NC	20
NEtFOSAA	U0.15	U0.15	ng/g	NC	20
NEtFOSE	U1.5	U1.5	ng/g	NC	20
NFDHA	U0.29	U0.30	ng/g	NC	20
NMeFOSA	U0.15	U0.15	ng/g	NC	20
NMeFOSAA	U0.15	U0.15	ng/g	NC	20
NMeFOSE	U1.5	U1.5	ng/g	NC	20
PFBA	U0.59	U0.60	ng/g	NC	20
PFBS	J0.082	J0.073	ng/g	12	20
PFDA	U0.15	U0.15	ng/g	NC	20
PFDoA	U0.15	U0.15	ng/g	NC	20
PFDoS	U0.15	U0.15	ng/g	NC	20
PFDS	U0.15	U0.15	ng/g	NC	20
PFEESA	U0.29	U0.30	ng/g	NC	20
PFHpA	J0.094	U0.15	ng/g	NC	20
PFHpS	U0.15	U0.15	ng/g	NC	20
PFHxA	0.33	J0.19	ng/g	56	20
Total PFHxS	1.2	1.0	ng/g	15	20
PFMBA	U0.29	U0.30	ng/g	NC	20
PFMPA	U0.29	U0.30	ng/g	NC	20
PFNA	U0.15	U0.15	ng/g	NC	20
PFNS	U0.15	U0.15	ng/g	NC	20
PFOA	0.36	J0.17	ng/g	73	20
PFOS	3.5	2.8	ng/g	20	20
PFOSA	J0.14	J0.088	ng/g	45	20
PFPeA	U0.29	U0.30	ng/g	NC	20

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ANALYTICAL SERVICES

Sample Duplicate Report

Dup. ID: WG344384-4
Sample ID: SQ5564-3
Client ID: DOW-SWC-01
SDG: SQ5564
Dup. File ID: 1LC00774

Extract Date: 25-OCT-23
Extracted By: AC/ASC
Extraction Method: 1633
Lab Prep Batch: WG344384
Sample File ID: 1LC00773

Analysis Date: 02-NOV-23
Analyst: AC
Analysis Method: 1633
Matrix: SL **% Solids:** 80.
Report Date: 09-NOV-23

Compound	Dup. Result	Sample Result	Units	RPD (%)	Limits
PFPeS	J0.10	J0.085	ng/g	20	20
PFTeDA	U0.15	U0.15	ng/g	NC	20
PFTrDA	U0.15	U0.15	ng/g	NC	20
PFUnA	U0.15	U0.15	ng/g	NC	20
M-4:2 FTS-13C2	48.5	46.9	%		20-150
M-6:2 FTS-13C2	49.5	51.2	%		20-150
M-8:2 FTS-13C2	49.7	49.0	%		20-150
M-GenX-13C3 (HFPO-DA)	46.4	49.9	%		20-150
M-NEtFOSAA-D5	81.4	65.2	%		20-150
M-NEtFOSA-D5	32.1	30.3	%		20-150
M-NEtFOSE-D9	45.4	40.1	%		20-150
M-NMeFOSAA-D3	49.0	49.6	%		20-150
M-NMeFOSA-D3	34.7	34.2	%		20-150
M-NMeFOSE-D7	44.6	39.7	%		20-150
M-PFBA-13C4	101.	100.	%		20-150
M-PFBS-13C3	46.9	46.0	%		20-150
M-PFDA-13C6	52.8	54.4	%		20-150
M-PFDoA-13C2	47.1	43.7	%		20-150
M-PFHpA-13C4	47.4	51.4	%		20-150
M-PFHxA-13C5	47.8	50.8	%		20-150
M-PFHxS-13C3	47.5	49.0	%		20-150
M-PFNA-13C9	54.7	55.5	%		20-150
M-PFOA-13C8	50.9	53.5	%		20-150
M-PFOS-13C8	50.9	49.6	%		20-150
M-PFOSA-13C8	46.0	47.1	%		20-150
M-PFPeA-13C5	48.6	51.7	%		20-150
M-PFTeDA-13C2	47.4	38.5	%		20-150
M-PFUnA-13C7	54.0	52.4	%		20-150

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Report of Analytical Results

Lab Sample ID: SQ5564-2
Client ID: DOW-PFAS-1012
SDG: SQ5564
Report Date: 25-OCT-23

Matrix	Date Sampled	Date Received
SL	12-OCT-23 07:55	12-OCT-23

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	78. %	1.0	1.0	1.0	SM2540G	WG344113	20-OCT-23 15:21	SM2540G	19-OCT-23	

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Report of Analytical Results

Lab Sample ID: SQ5564-3
Client ID: DOW-SWC-01
SDG: SQ5564
Report Date: 25-OCT-23

Matrix	Date Sampled	Date Received
SL	21-SEP-23 09:30	12-OCT-23

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	80. %	1.0	1.0	1.0	SM2540G	WG344113	20-OCT-23 15:21	SM2540G	19-OCT-23	

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Quality Control Report

Blank Sample Summary Report

Total Solids

QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	Units	LOQ	MDL	LOD
WG344113	SM2540G	20-OCT-23	19-OCT-23	100	%	1.0	1.0	1.0

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ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Laboratory Control Sample Summary Report

Total Solids

Laboratory Sample ID	Sample Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amount	Result	Recovery (%)	Acceptance Range	RPD
WG344113-2	LCS	WG344113	20-OCT-23	19-OCT-23	%	90	90.	100	90-110	
WG344113-3	LCSD	WG344113	20-OCT-23	19-OCT-23	%	90	90.	100	90-110	0

Katahdin Analytical Services, LLC. **Sample Receipt Condition Report**

Client: Mallett + Associates	KAS PM: HHM	Sampled By: Client
Project:	KIMS Entry By: MLV	Delivered By: Client
KAS Work Order#: SQ 5564	KIMS Review By: HHM	Received By: EP
	Labeled By: EP	
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 10/12/23

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		/			
2. Chain of Custody present in cooler?	/				
3. Chain of Custody signed by client?	/				
4. Chain of Custody matches samples?	/				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	/				Temp (°C): 1.7° Thermometer ID: IR-1
Samples received at <6 °C w/o freezing?	/				Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?	/				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	/				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				/	Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles: **Aqueous:** No bubble larger than a pea?				/	
Soil/Sediment: Received in airtight container?				/	
Received in methanol?				/	
Methanol covering soil?				/	
D.I. Water - Received within 48 hour HT?				/	
7. Trip Blank present in cooler?				/	
8. Proper sample containers and volume?	/				
9. Samples within hold time upon receipt?	/				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				/	
Sulfide - >9				/	
Cyanide – pH >12				/	
11. Bottleware Prepped on:					

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

QA-048 – Revision 8 – 09/11/2020

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client	Contact	Phone #	Fax #
Mabbett + Associates	M. Bloom	(781) 275 6050	( )

Address	City	State	Zip Code
105 Central St Suite 4100	Stoneham	MA	02180

Purchase Order #	Proj. Name / No.	Katahdin Quote #
2022057	DOW FUDS	

Bill (if different than above)	Address

Sampler (Print / Sign)	Copies To:

LAB USE ONLY

WORK ORDER #: SQ 5564

KATAHDIN PROJECT NUMBER _____

REMARKS: _____

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO: _____

TEMP°C _____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

★	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	ANALYSIS AND CONTAINER TYPE PRESERVATIVES: PFAS	EPA 1633	Moisture
	DOW-PFAS-1012	~~10-12~~ 10-12 / 755	W	4	X		
	DOW-PFAS-1012	10-12 / 755	S	2	X	X	
	DOW-SWC-01	9-21 / 930	S	1	X		
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Filt. ☐Y ☐N

COMMENTS 2x 250 mL contain preservatives
PFAs results for 24 compounds

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Relinquished By: (Signature)	10-12 1400	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody (ln01)

Oct. 18, 2023
06:15 PM

Login Number: SQ5564

Account: MABBETT001
Mabbett & Associates Inc

Project: MABBETT-DOWAFB

Primary Report Address:
Helen Douglas
Mabbett & Associates, Inc.
105 Central Street
Suite 4100
Stonham, MA 02180-1260
USA
douglas@mabbett.com

Primary Invoice Address:
Accounts Payable
Mabbett & Associates Inc
105 Central Street
Suite 4100
Stoneham,MA 02180

accountspayable@mabbett.com

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming: MABBETT-DOWAFB

Login Information

ANALYSIS INSTRUCTIONS	:	DOD, ND to LOD w/ J flags. Use 2-4X detection limits. Need 24 compounds reported.
CHECK NO.	:	
CLIENT PO#	:	D01ME0004 02, R2022057.000
CLIENT PROJECT MANAGE	:	Stephen Vetere
CONTRACT	:	W912WJ-19-D-0005
COOLER TEMPERATURE	:	1.7
DELIVERY SERVICES	:	Client
EDD FORMAT	:	FUDSCHEM
ISM INSTRUCTIONS	:	
LOGIN INITIALS	:	MLV
PM	:	HHM
PROJECT NAME	:	Former Dow AFB
QC LEVEL	:	II+
REPORT INSTRUCTIONS	:	No grainsize or IDW in FUDS. Email login, noncon, & final reports to schanzle@mabbett.com & douglas@mabbett.com.
SDG ID	:	
SDG STATUS	:	
TEMPLATE	:	
VERBAL TAT	:	

6:17 pm, Oct 18, 2023

Run Reports: Logindetail

Login Number: SQ5564

Account: MABBETT001
Mabbett & Associates Inc

Project: MABBETT-DOWAFB

Quote/Incoming: MABBETT-DOWAFB

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Verbal Due Date	Mailed
SQ5564-1	DOW-PFAS-1012	12-OCT-23 07:55	12-OCT-23		09-NOV-23		

Sample Comments:

Matrix		Product	Hold Date (shortest)	Notes	Bottle Type
Aqueous	S	1633	09-NOV-23		500mL Plastic
Service	S	WASTE-DISPOSAL			

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Verbal Due Date	Mailed
SQ5564-2	DOW-PFAS-1012	12-OCT-23 07:55	12-OCT-23		09-NOV-23		

Sample Comments:

Matrix		Product	Hold Date (shortest)	Notes	Bottle Type
Solid	S	1633	09-NOV-23		4oz HDPE Jar
Solid	S	TS-ME	19-OCT-23		2oz Glass

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Verbal Due Date	Mailed
SQ5564-3	DOW-SWC-01	21-SEP-23 09:30	12-OCT-23		09-NOV-23		

Sample Comments: No TS jar.

Matrix		Product	Hold Date (shortest)	Notes	Bottle Type
Solid	S	1633	19-OCT-23		4oz HDPE Jar
Solid	S	TS-ME	28-SEP-23	Rec. Out of Hold	2oz Glass

Total Samples: 3 ***Total Analyses: 6***

6:17 pm, Oct 18, 2023

Run Reports: Logindetail