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August 28, 2013

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SUBJECT: Final April and September 2012 Performance Monitoring Data Summary Report
AOC 9 Former Griffiss Air Force Base (AFB) Rome, New York
Contract Number W912DQ-09-D-3013

1. Enclosed is the "Final April and September 2012 Performance Monitoring Data Summary Report, AOC 9". This Report documents the performance monitoring at AOC 9 at the Former Griffiss AFB in Rome, New York. This version of the report incorporates results through 1 September 2012.

2. This report was submitted as Draft on March 18, 2013 and as Draft Final on May 31, 2013. The USEPA and NYSDEC elected not to provide comments on either version. In accordance with the Federal Facilities Agreement, this report will be incorporated into the Administrative Record as final on September 26, 2013, barring receipt of regulatory comments.

3. If you have any questions or need additional information, please contact Cathy Jerrard at (315) 356-0810, ext. 204.

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AFCEC/CIBE Griffiss

Attachment: As Noted

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Final
April and September 2012 Performance Monitoring Data Summary Report

AOC 9
Former Griffiss Air Force Base
Rome, New York

Contract No. W912DQ-09-D-3013

August 2013

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Certificate of Compliance

Draft Final
April and September 2012 Performance Monitoring Data Summary Report
AOC 9
Former Griffiss Air Force Base, Rome, New York

May 2013

On behalf of Ecology and Environment Engineering, P.C. (EEEPC), the undersigned certify that the attached document(s) were developed in conformance with EEEPC's Scope of Work, contract requirements, and EEEPC's Quality Control Plan.

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List of Abbreviations and Acronyms

AFCEE	Air Force Center for Engineering and the Environment
AOC 9	Area of Concern 9
BGS	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylene
CD	compact disk
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
COC	contaminant of concern
DCB	dichlorobenzene
DCE	dichloroethylene
DO	dissolved oxygen
DUSR	Data Usability Summary Report
EEEPC	Ecology and Environment Engineering, P.C.
EPA	(United States) Environmental Protection Agency
ERPIMS	Environmental Restoration Program Information Management System
ESI	Expanded Site Investigation
FID	flame ionization detector
Griffiss AFB	former Griffiss Air Force Base
MAROS	Monitoring and Remediation Optimization System Software Version 2.2
MCL	maximum contaminant level
µg/L	micrograms per liter
mg/kg	milligrams per kilogram
MW	monitoring well

List of Abbreviations and Acronyms (cont.)

NYSDEC	New York State Department of Environmental Conservation
ORP	oxidation reduction potential
Parsons	Parsons Government Services, Inc.
PCE	tetrachloroethylene
PDI	Predesign Investigation
PDI 2	Second Predesign Investigation
PID	photoionization detector
ppm	parts per million
QA	quality assurance
QC	quality control
RAO	remedial action objective
SI	Supplemental Investigation
SW	surface water
TCE	trichloroethylene
USACE	United States Army Corps of Engineers
VOC	volatile organic compound
WSA	Weapons Storage Area

1 Introduction

Ecology and Environment Engineering, P.C. (EEEPC), under contract to Parsons Government Services, Inc. (Parsons), which is under contract to the U.S. Army Corps of Engineers (USACE) Kansas City District (Contract No. W912DQ-09-D-3013), performed the third and fourth (final) rounds of performance groundwater and surface water monitoring at Area of Concern 9 (AOC 9) of the former Griffiss Air Force Base (Griffiss AFB) in Rome, New York, on April 16 and 17, 2012, and September 25 and 26, 2012 (see Figure 1-1). The first and second rounds of performance groundwater and surface water monitoring were provided under separate cover in the *Draft May 2011 and October 2011 Performance Monitoring Data Summary Report* (EEEPC 2012). The results of the third and fourth (final) rounds of performance monitoring are presented in Section 2. All four rounds of data are discussed in Section 3. In addition, figures from the first two rounds of sampling are provided in Appendix A for comparison purposes.

1.1 Purpose of Investigation

The three-phased groundwater monitoring program consists of baseline, performance, and long-term monitoring of volatile organic compound (VOC) levels in the groundwater and in Six Mile Creek. A phased approach is consistent with the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) response action process. Monitoring well data are screened against the most stringent of either the New York State Department of Environmental Conservation (NYSDEC) Class GA groundwater criteria or the United States Environmental Protection Agency (EPA) maximum contaminant levels (MCLs) (NYSDEC 2009; EPA 2006), which also represent the remedial action objectives (RAOs) established in the *Final Record of Decision* for this project (see Table 1-1; EEEPC 2010a). For the contaminants of concern (COCs) at AOC 9, the NYSDEC Class GA criteria for groundwater are the more stringent of the screening criteria. Surface water samples are screened against the NYSDEC Class C freshwater fish propagation standards and guidance values (NYSDEC 2009).

The baseline sampling conducted from July 27 to 29, 2010, consisted of groundwater sampling of eight monitoring wells (G009-MW01, G009-MW02, AOC9-MW05, MW06, MW14, MW15, MW17, and MW18) and surface water sampling of three locations (AOC9-SW01, SW02, and SW03). These groundwater and surface water samples were analyzed to establish baseline VOC concentrations in the groundwater plume and Six Mile Creek before remediation began (EEEPC 2010c).

The performance monitoring will evaluate the short-term effectiveness of the remediation efforts with a total of four sampling events over two years. The performance monitoring consists of groundwater sampling of five monitoring wells (AOC9-MW06, MW14, MW15, MW17, and MW19) and surface water sampling of three locations (AOC9-SW01, SW02, and SW03). The third and fourth (final) sampling events are identified as the April 2012 and September 2012 performance monitoring.

The long-term effectiveness of the remediation efforts will be monitored during the long-term monitoring for three more years with annual sampling events. The long-term monitoring consists of groundwater sampling of nine monitoring wells (G009-MW01, G009-MW02, AOC9-MW05, MW06, MW14, MW15, MW17, MW18, and MW19) and surface water sampling of three locations (AOC9-SW01, SW02, and SW03).

Following the first three years of annual long-term monitoring, it is anticipated that monitoring will continue on an every-other-year basis until concentrations of hazardous substances in groundwater are below the RAOs. Once the RAOs have been reached, the monitoring will again be performed annually until three consecutive rounds of sampling indicate that the concentrations of groundwater contaminants remain below RAOs. At that point, unrestricted use of the site may be allowed. Modeling performed during evaluation of the remedial alternatives for AOC 9 indicated that the total duration of the remedial action would likely span 11 years beginning in 2011 with the implementation of the remedial action (EEEPC 2010d).

1.2 AOC 9 Site Description

AOC 9 is a grass-covered area approximately 1,500 feet long and 650 feet wide located in the southwest portion of the inactive Weapons Storage Area (WSA; see Figure 1-1). The site is part of a strip of land that lies between an airplane runway to the southwest and extends into the WSA to the northeast. Perimeter Road runs through the site and Six Mile Creek borders the southwestern edge of the site.

The area comprising AOC 9 was originally farmland in the 1930s before the base was constructed. In the 1940s and 1950s, the first landfill for the base was established beneath the northern portion of the WSA extending south between Perimeter Road and Six Mile Creek. Aerial photographs show that the landfill was active between 1943 and 1957 but no later than 1960. The type of material buried at this site is unknown; however, it is reported that large quantities of the landfill material were removed during construction of the WSA.

Two munitions storage bunkers were erected between Perimeter Road and Six Mile Creek in the early 1950s. One of the bunkers (also referred to as igloos) was removed in the late 1970s or early 1980s (before 1981), and the other bunker was removed in 1992. Although the bunkers were initially used for munitions storage, they were later used to store hazardous materials.

The site's status was changed from "Area of Interest" to "Area of Concern" in 1998 when groundwater samples collected during the Expanded Site Investigation (ESI) were found to contain chlorinated solvents at concentrations exceeding NYSDEC Class GA standards and EPA MCLs (EPA 2006; NYSDEC 2009).

AOC 9 is currently inactive and access is somewhat restricted by Perimeter Road Gates 4 and 11. The southern portion of this area is expected to remain vacant in the future, acting as a buffer zone between the runway and future development in adjacent areas. The northern portion of the site extends into the former WSA boundary and is expected to be zoned as a nonresidential, industrial area.

The ground surface at AOC 9 slopes gently downward toward Six Mile Creek. Groundwater flows southwest toward the creek. Depth to groundwater is approximately 10 to 12 feet but is closer to the ground surface between Perimeter Road and Six Mile Creek. There are several locations in this area where shallow groundwater discharges to the surface. Three intermittent drainageways that discharge to Six Mile Creek exist on the southern portion of the site.

Debris (e.g., glass, slag, bricks, ceramics, cinderblocks, asphalt, concrete, wire, and metal) encountered during test pit excavations in the southern portion of the former landfill (south of the WSA) accounted for less than 1% by volume of excavated material. The lack of waste materials observed from the test pit excavations support reports that the contents of the former WSA landfill had been removed before the WSA was built.

A contaminated groundwater plume (chlorobenzene, trichloroethylene [TCE], dichloroethylene [DCE]) extends downgradient from AOC 9 for approximately 1,500 feet and covers approximately 8 acres. The lateral extent of the plume is approximately 400 feet and the vertical extent range is from ground surface to approximately 20 feet below ground surface (BGS). The leading edge of the plume has reached Six Mile Creek.

The contaminated aquifer is composed of silty-fine to medium-grained sands with little coarse sand with discontinuous gravel seams. North of Perimeter Road, the aquifer is found in an interval from approximately 3 to 28 feet BGS. South of Perimeter Road there is less overburden and the aquifer extends from 1 to 18 feet BGS. A thin till layer above the Utica Shale bedrock underlies the aquifer, but contamination has not been detected in the bedrock.

1.3 AOC 9 Previous Investigation Background

In 1997, an ESI was performed (E & E 1998). The main objective of the ESI was to investigate the nature and extent of environmental contamination from historical releases at the site in order to determine whether any remedial action was necessary to prevent potential threats to human health and the environment arising from exposure to site conditions.

The ESI included the installation and sampling of four permanent monitoring wells. Analytical results indicated the presence of benzene, chlorobenzene, cis-1,2-DCE, 1,2-dichlorobenzene (DCB), 1,3-DCB, 1,4-DCB, tetrachloroethylene (PCE), and TCE in one or more wells in concentrations that exceeded screening criteria. Several metals, including aluminum, iron, manganese, and potassium, were also detected in concentrations that exceeded screening criteria in one or more wells.

In 2000, a Supplemental Investigation (SI) was performed. A total of 88 Geoprobe and six Hydropunch groundwater screening samples were collected from 45 locations. Twenty-six of the 45 locations were vertically profiled (i.e., up to three samples were collected from different depths at the same location). In addition, four new monitoring wells were installed and sampled, and four existing monitoring wells were resampled. Analytical results for the Geoprobe/samples indicated the presence of 16 VOCs at levels exceeding the most stringent criteria. Analytical results for the monitoring wells indicated the presence of 14 VOCs and five metals at concentrations exceeding the most stringent screening criteria.

In 2002, a second SI was performed to collect additional data to further delineate the chlorinated hydrocarbon plume and determine if petroleum hydrocarbons were present within the groundwater. A total of 56 Geoprobe groundwater screening samples were collected from 14 locations. Eleven of the 14 locations were vertically profiled (i.e., up to five samples were collected from different depths at the same location). Analytical results for the Geoprobe samples indicated the presence of 15 VOCs at levels exceeding the most stringent screening criteria.

Based on these results, the overall shape of the contaminant plume at that time appeared to be linear and oriented northeast/southwest (approximately 850 feet long) with a relatively narrow center. The downgradient portion appeared to be the widest due to natural dispersion and the change in direction of groundwater flow in proximity to the creeks. Subsequent investigations provided additional data to better define the entire plume.

During the SI, five test pits were excavated to the water table and groundwater samples were collected to determine if petroleum hydrocarbons were present within the groundwater. Analytical results indicated that there was no significant petroleum hydrocarbon contamination in the test pit samples.

During the first predesign investigation (PDI) conducted in September through November 2006 by EEEPC, four additional groundwater monitoring wells (MWs; AOC9-MW14 through MW17) were installed at the site. Twenty-three different VOCs were detected in at least one of the groundwater samples collected during this investigation. The highest concentrations of total VOCs (1,2-DCB, 1,4-DCB, chlorobenzene, and benzene) were detected in presumed upgradient wells MW14 and MW15 at 2,082 micrograms per liter (µg/L) and 1,989 µg/L, respectively. These concentrations at presumed upgradient wells prompted further investigation

and a potential source of groundwater contamination was found in the soil upgradient of Six Mile Creek and Perimeter Road. Two additional PDIs were conducted to determine the extent and nature of this source.

The second predesign investigation (PDI 2) was performed in February through April 2007. This study included the installation of 25 temporary monitoring wells and identified areas containing significantly higher levels of chlorobenzene and related compounds east of Building 913. Monitoring wells TW39 and TW32 had chlorobenzene concentrations of 14,400 µg/L and 8,580 µg/L, respectively. These concentrations were five to 10 times higher than the highest concentrations historically detected at AOC 9.

A third predesign investigation (Additional PDI) was performed in June through October 2007 to better define the plume and further identify the potential soil contaminant source area. During this investigation, a total of 56 new temporary monitoring wells were installed around the site. Twenty-two different VOCs were detected in the groundwater samples collected from the temporary monitoring wells at concentrations exceeding the groundwater standards. The highest total VOC concentrations were detected in groundwater samples collected from temporary wells TW45 (3,100 µg/L), TW71 (3,300 µg/L), and TW100 (3,400 µg/L). In addition, 42 boreholes were installed in the soil and soil cores were screened continuously with a photoionization detector and flame ionization detector (PID/FID) from ground surface to refusal (in the glacial till layer, approximately between 20 and 30 feet BGS). Samples were taken at depth intervals where the highest PID/FID readings were measured. Twelve VOCs (1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,2-DCB, 1,3-DCB, 1,4-DCB, chlorobenzene, ethylbenzene, naphthalene, n-butylbenzene, n-propylbenzene, sec-butylbenzene, and toluene) were detected at concentrations exceeding screening criteria in the soil samples collected from the 42 soil borings. The highest total VOC concentrations were detected in soil samples collected from boreholes SB01 (1,100 milligrams/kilogram [mg/kg]) and SB12 (1,600 mg/kg) with chlorobenzenes representing the largest fraction of VOCs. The sample results and field observations indicated that there was a 6-foot-thick gray to black smear zone of contamination at the top of the saturated zone, which is located at depths ranging from 8 to 17 feet BGS.

Based on the above PDIs, the soil east of Building 913 was identified as the source of the AOC 9 groundwater contamination.

Baseline sampling was conducted at AOC 9 from July 27 to July 29, 2010, to establish baseline VOC concentrations in the groundwater plume and Six Mile Creek, before the remedial action (source excavation) began on September 1, 2010 and are presented in the *Final Baseline Monitoring Data Summary Report, AOC 9 Former Griffiss Air Force Base, Rome, New York* (EEEPC 2010c). Baseline sampling consisted of sampling eight monitoring wells (G009-MW01, G009-MW02, AOC9-MW05, MW06, MW14, MW15, MW17, and MW18) and three

surface water (SW) locations (AOC9-SW01, SW02, and SW03). Groundwater and surface water samples were analyzed for VOCs (EPA Method SW8260B).

Twenty-one VOCs, including chlorobenzene; 1,2-DCB; 1,4-DCB; TCE; PCE; and several petroleum compounds including benzene, toluene, ethylbenzene, and xylene (BTEX) were detected in the groundwater samples collected. Eleven of the contaminants were detected in at least one sample at concentrations exceeding NYSDEC Class GA Groundwater standards. The highest total VOC concentrations were detected in monitoring wells MW14 (2,100 µg/L), MW15 (1,700 µg/L), and MW17 (890 µg/L). Monitoring wells MW14, MW15, and MW17 are located in the center of the plume downgradient of the contaminant source area (see Figure 1-2 in Appendix A).

A comparison of baseline analytical results to the historical analytical results indicated that the AOC 9 groundwater plume had, in general, remained relatively stable. Based on the analytical results obtained from monitoring wells MW01 and MW02, the plume did not appear to have widened south of Perimeter Road, nor does the leading edge of the plume appear to have continued to advance based on the analytical results obtained from monitoring wells MW05 and MW06. Surface water sample results obtained from sample locations SW01, SW02, and SW03 have also been relatively consistent. The upstream location (SW01) has had total VOC concentrations ranging from non-detect to 1.78 µg/L. The location where the center of the groundwater contaminant plume intersects Six Mile Creek (SW02) has had total VOC concentrations ranging from non-detect to 5 µg/L, and sample location SW03, at the downstream edge of the groundwater plume's intersection with Six Mile Creek has had total VOC concentrations ranging from non-detect to 4 µg/L.

1.4 AOC 9 Remedial Design and Monitoring Summary

The remedial design includes removal of the source area through excavation of contaminated soil, which was completed in December 2010, treatment of contaminated groundwater using chemical oxidation, which is currently scheduled for completion in 2013, and land use controls (EEEPC 2010d). Additionally, three groundwater and surface water monitoring phases, baseline sampling, performance monitoring, and long-term monitoring, will be performed in conjunction with the remedial action as described in the *Final Work Plan Baseline, Performance, and Long-Term Monitoring at AOC 9* (EEEPC 2010e). Baseline sampling was conducted to provide a snapshot of the groundwater contaminant levels prior to implementation of the remedial action for comparison to the groundwater monitoring, which will be performed after the remedial action. The May 2011, October 2011, April 2012, and September 2012 performance monitoring events were performed to evaluate the short-term effectiveness of the remediation efforts; by being used to confirm the downward trend during the first two years following excavation, and determining which of the RAOs have been or have not been achieved, for each of the monitoring wells sampled. The long-term monitoring will be performed to monitor the long-term effectiveness of the remediation efforts.

As described in the work plan, a total of eight sampling events are currently planned: one baseline sampling, four biannual performance monitoring, and three annual long-term monitoring. However, following the first three years of annual long-term monitoring, it is anticipated that monitoring will continue on an every-other-year basis until concentrations of hazardous substances in groundwater are below RAOs. After reaching the RAOs, the monitoring will again be performed annually until three consecutive rounds of sampling indicate that the concentrations of groundwater contaminants remain below the RAOs, allowing for unrestricted use of the site (EEEPC 2010e). If an increasing trend in contaminants of concern concentration is identified in any monitoring well or surface water sampling location (e.g., three consecutive monitoring events showing a statistically increasing trend), the Air Force will propose to the EPA and NYSDEC that additional action be performed. Additional oxidant injections or additional excavations may be executed without requiring either an Explanation of Significant Differences or Record of Decision amendment (EEEPC 2010a).

Additional activities at this site included installation and development of two new permanent monitoring wells (AOC9-MW18 and MW19). Monitoring well MW18 was installed by Parsons, prior to the baseline sampling, east of the treatment area and serves as an upgradient well (see Figure 2-1 for well locations). Total VOC concentration during baseline sampling in MW18 was 3.2 µg/L. The remedial action at AOC 9 was conducted following the installation of MW18. Well MW19 was installed in the spring 2011, prior to the May 2011 performance sampling, following the remedial excavation in the eastern portion of the groundwater contaminant source area at the location of former temporary well TW39, to function as a former source area well (see Figure 2-1 for well locations). The screened interval in MW19 targets the interval previously screened by temporary well TW39 (9.3 to 19.3 feet BGS), which contained a total VOC concentration of 21,610 µg/L. MW19 was constructed with a 10-foot (0.01-inch slot) PVC screen in accordance with USACE protocols.

All existing monitoring wells were surveyed by the subcontractor, LaFave White & McGivern, during previous investigations to obtain horizontal locations and vertical elevations of each monitoring well. The surveys utilized the existing benchmarks located on Griffiss AFB and are in the New York Central NAD 83 State Plane coordinate system. Horizontal measurements and vertical measurements were obtained to accuracy of 0.001 foot and 0.01 foot, respectively.

Table 1-1 AOC 9 Groundwater Cleanup Goals/Remedial Action Objectives

Contaminants of Concern[a]	Groundwater Cleanup Goal[b] (µg/L)
1,2-Dichlorobenzene	3
1,2-Dichloroethane	0.6
1,2,4-Trimethylbenzene	5
1,3,5-Trimethylbenzene	5
1,3-Dichlorobenzene	3
1,4-Dichlorobenzene	3
Acetone	50
Benzene	1
Chlorobenzene	5
cis-1,2-Dichloroethylene	5
Ethylbenzene	5
Isopropylbenzene	5
Methylene Chloride	5
Naphthalene	10
n-Butylbenzene	5
n-Propylbenzene	5
o-Xylene	5
sec-Butylbenzene	5
Trichloroethylene	5
tert-Butylbenzene	5
Tetrachloroethylene	5
Vinyl Chloride	2
Xylene (Total)	5

Notes:

[a] From the *Final Feasibility Study Addendum for AOC 9* (EEEPC 2010b).

[b] New York State Department of Environmental Conservation (NYSDEC 2009) Class GA groundwater standard.

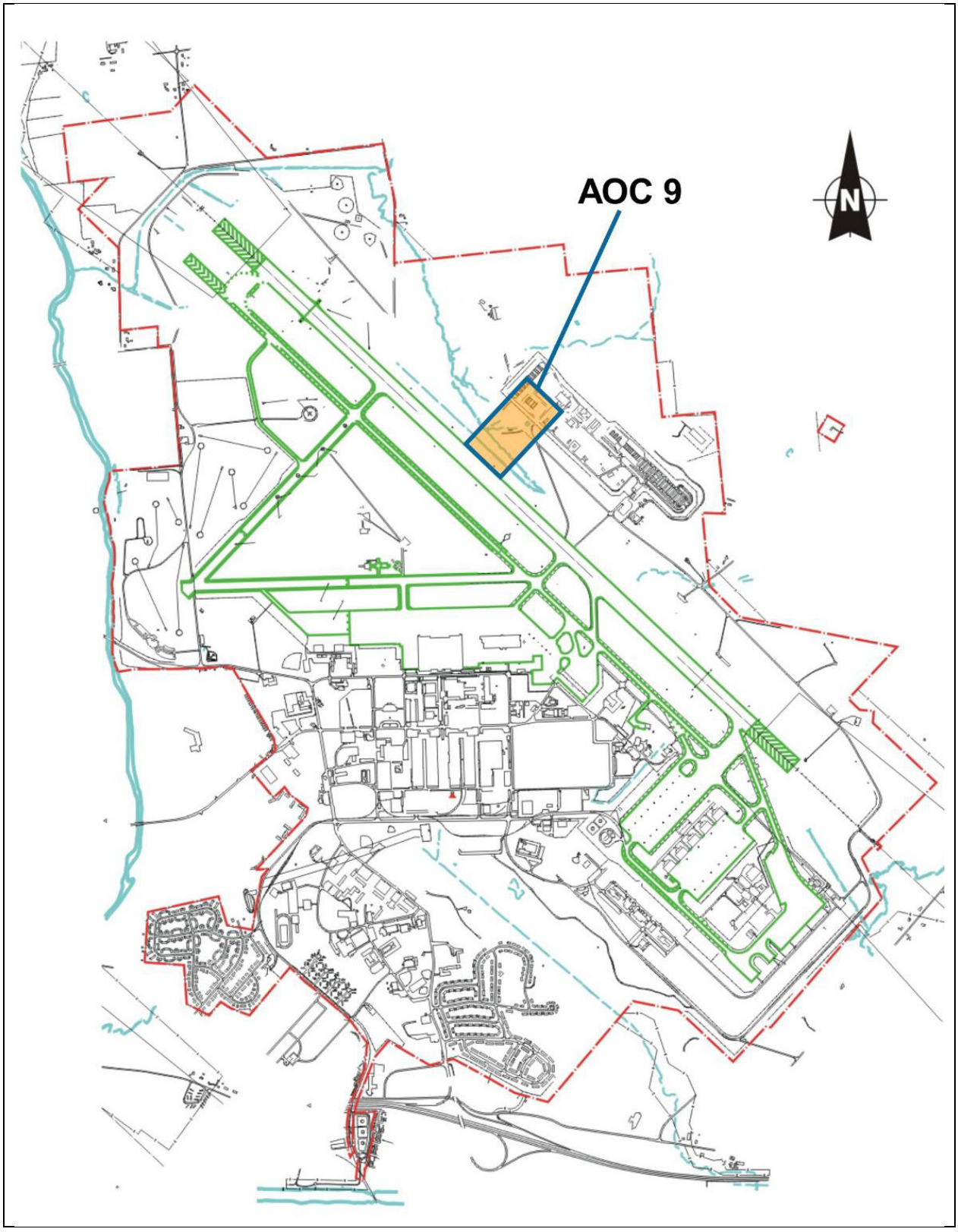


Figure 1-1 AOC 9, Former Griffiss Air Force Base, Rome, New York

2 AOC 9 Performance Monitoring Activities

This section presents the field activities performed during the AOC 9 April 2012 and September 2012 Performance Monitoring (see Appendix B, Daily Activity Forms). The work performed at AOC 9 described in this report was performed in accordance with the work plan (EEEPC 2010e), with minor deviations from the work plan described in Section 2.5.

2.1 Scope of Work

April 2012 and September 2012 performance sampling was conducted at AOC 9 in accordance with the work plan as described in Section 1.4 (EEEPC 2010e). Performance sampling consisted of sampling five monitoring wells (AOC9-MW06, MW14, MW15, MW17, and MW19) and three surface water locations (AOC9-SW01, SW02, and SW03; see Figure 2-1):

- Well MW06 was sampled as a sentinel well to determine the stability of the leading edge of the contaminant plume and to monitor the effectiveness of the remedial action in the area downgradient of the remedial action treatment area.
- Wells MW14, MW15, and MW17 were sampled to monitor the groundwater quality in the center of the plume downgradient of the remedial excavation.
- Well MW19 was sampled to monitor the effectiveness of the remedial action in the center of the former source area, following completion of the source area excavation.
- Surface water sample locations SW01 through SW03 were sampled to monitor contaminant concentrations within Six Mile Creek.

April 2012 and September 2012, in conjunction with the May 2011 and October 2011, performance sampling results will be used to begin to evaluate the effectiveness of the remediation efforts. Sampling was conducted from April 16 to 17, 2012, and September 25 to 26, 2012.

2.1.1 Groundwater Sampling

Groundwater samples were collected from MW06, MW14, MW15, MW17, and MW19 and analyzed by Katahdin Analytical Services, located in Scarborough,

Maine. Groundwater samples were analyzed for VOCs (EPA Method SW8260B), in accordance with the *Final Work Plan, Baseline, Performance, and Long-Term Monitoring at AOC 9* (EEEPC 2010e). Prior to collection of the groundwater samples, a minimum of three well volumes of groundwater was purged from each well using EPA low-flow procedures. The wells were purged and sampled with a pump/controller and dedicated bladder pumps and associated tubing. Field parameters (i.e., turbidity, pH, temperature, conductivity, oxidation reduction potential [ORP], and dissolved oxygen [DO]) were collected and recorded on groundwater sampling forms during purging. The completed groundwater sampling forms are provided in Appendix C and a complete list of all samples collected is provided in Table 2-1. Static water levels were also measured and recorded for each monitoring well listed on Table 2-2 to create a current groundwater contour map (see Figures 2-2a and 2-2b). A photograph of each groundwater sample collected is provided in Appendix D in accordance with USACE protocols.

2.1.2 Surface Water Sampling

Surface water samples were collected from SW01 through SW03, and analyzed by Katahdin Analytical Services. Surface water samples were analyzed for VOCs (EPA Method SW8260B), in accordance with the work plan (EEEPC 2010e). The samples were collected by filling a dedicated sample jar with water directly from Six Mile Creek, then transferring the creek water to pre-preserved approved sample containers, leaving no head space. Field parameters (i.e., turbidity, pH, temperature, conductivity, ORP, and DO) were collected and recorded during sampling. The completed surface water sampling forms are provided in Appendix C and a complete list of all samples collected is provided in Table 2-1.

2.1.3 Groundwater Elevation Measurements

Groundwater elevations were collected in accordance with the work plan (EEEPC 2010e) by measuring the depth to water at 16 locations (see Table 2-2) using an electronic water level indicator to measure the static water levels from the top of the casing at each location. These measurements were used to create groundwater contour maps for each event (see Figures 2-2a and 2-2b).

2.2 Equipment Decontamination

Equipment decontamination was performed in accordance with the work plan (EEEPC 2010e).

Groundwater and surface water field testing instruments were decontaminated by rinsing the water level indicator, flow-through cell and pH, temperature, conductivity, DO, and ORP probes with deionized water between each use.

2.3 Investigation Derived Waste

Investigation-derived water was handled in accordance with the work plan (EEEPC 2010e). Purge water generated during groundwater sampling was collected in 5-gallon buckets and field-screened with a PID to determine if it was contaminated. PID readings were taken directly from the surface of the collected

purge water. No PID readings above zero parts per million (ppm) were detected from the field screening of the purge water; therefore, all water was discharged to the ground adjacent to the sampled well.

2.4 Quality Assurance/Quality Control

Quality assurance/quality control (QA/QC) samples were collected in accordance with the work plan (EEEPC 2010e). Analytical data have been validated for samples collected as part of this investigation. Raw data and the Data Usability Summary Report (DUSR) are presented in Appendices E and F, respectively.

Field QC samples included one groundwater duplicate and one trip blank during the April 2012 sampling event, and one groundwater duplicate, one trip blank during the September 2012 sampling event. Duplicate samples provide insight as to the homogeneity of the sample matrix and establish a degree of confidence that the sample represents site conditions. Field duplicates were collected at the rate of one duplicate per 10 original samples (10%); therefore, one duplicate was collected for the five ground and three surface water samples collected. The field duplicate collected during April 2012 showed good precision. The field duplicate collected during September 2012 showed good precision.

A trip blank was collected to establish that the transport of sample containers to and from the field did not result in the contamination of the sample from external sources. No compounds were detected in the trip blank for either sampling event from 2012.

A few sample results were qualified "J" as estimated because of minor calibration deviations, laboratory control sample recovery and matrix spike recoveries. Some results that are deemed to be estimated due to QA/QC deficiencies are reported to be above the site clean-up goals, therefore, no significant impact of data usability is deemed to have occurred. Other results that are in the range of site clean-up goals could be impacted by these QA/QC deficiencies, and the results should be deemed as usable with a statistical laboratory error associated with them.

2.5 Work Plan Deviations

For both the April 2012 and September 2012 sampling events, groundwater measurements were only collected from the 16 permanent monitoring wells on site. Measurements were not taken at temporary wells or piezometers as called for in the work plan, as many of them were removed during the remedial excavation. Approval for this change was received from the USACE prior to the start of the performance monitoring; therefore, a field adjustment form was not generated.

An additional deviation occurred during the April 2012 sampling event. Due to the replacement of the dedicated bladder pumps in MW15 and MW17, air had built up within the pump and, thus, was pushed into the lines during purging. After tightening the fittings and adjusting the flow through cell, the bladder pumps were filled over a longer duration of time and then purged of water quickly using the GeoControl unit to push the air from the pump and lines. This appeared to be

effective, so that sampling could continue. A new water level was taken for MW17, while MW15 was allowed to recharge to the water level measurement initially taken.

There were no deviations to the work plan during the September 2012 sampling event. The field adjustment form generated during the April 2012 sampling is located in Appendix G.

Table 2-1 AOC 9 Performance Monitoring, Groundwater and Surface Water Sample Summary, Former Griffiss Air Force Base, Rome, New York

Monitoring Well			Analyses
Sample Number	Screen Interval (feet BGS)	Comment	TCL VOCs – SW8260B
April 2012 Performance Monitoring			
AOC9-MW06PM04162012	4.2-14.2		X
AOC9-MW14PM04172012	14.0-24.0	MS/MSD	X
AOC9-MW15PM04172012	9.0-14.0		X
AOC9-MW17PM04172012	9.0-14.0		X
AOC9-MW17/DPM04172012	9.0-14.0	Duplicate	X
AOC9-MW19PM04172012	9.0-19.0		X
AOC9-SW01PM04162012	-		X
AOC9-SW02PM04162012	-		X
AOC9-SW03PM04162012	-		X
AOC9-TB1-04162012	-	Trip Blank	X
September 2012 Performance Monitoring			
AOC9-MW06PM092512	4.2-14.2		X
AOC9-MW14PM092612	14.0-24.0		X
AOC9-MW15PM092612	9.0-14.0		X
AOC9-MW17PM092612	9.0-14.0	MS/MSD	X
AOC9-MW19PM092612	9.0-19.0		X
AOC9-MW19/DPM092612	9.0-14.0	Duplicate	X
AOC9-SW01PM092512	-		X
AOC9-SW02PM092512	-		X
AOC9-SW03PM092512	-		X
AOC9-TB1-092512	-	Trip Blank	X

Key:

AOC = Area of Concern.
BGS = Below ground surface.
/D = Duplicate.
ft = Feet.
MS/MSD = Matrix spike/matrix spike duplicate.
TB = Trip blank.
TCL = Target compound list.
VOCs = Volatile organic compounds.

Table 2-2 AOC 9 Performance Monitoring Groundwater Elevation Data, Former Griffiss Air Force Base, Rome, New York

Monitoring Well ID	Date	Ground Surface Elevation (feet AMSL)	Water Level (feet BGS)	Water Level Elevation (feet AMSL)	Comments
April 2012 Performance Monitoring					
G009-MW01	4/16/2012	492.67	-0.36	493.03	Negative value indicates water was above ground surface.
G009-MW02	4/16/2012	494.54	3.12	491.42	
G009-MW03	4/16/2012	485.1	0.15	484.95	
G009-MW04	4/16/2012	483.97	7.36	476.61	
AOC9-MW05	4/16/2012	482.72	4.5	478.22	
AOC9-MW06	4/16/2012	482.57	4.62	477.95	
AOC9-MW07	4/16/2012	483.25	1.64	481.61	
AOC9-MW08	4/16/2012	514.28	9.04	505.24	
AOC9-MW12	4/16/2012	509.09	4.84	504.25	
AOC9-MW13	4/16/2012	508.53	4.00	504.53	
AOC9-MW14	4/16/2012	519.05	12.53	506.52	
AOC9-MW15	4/16/2012	500.04	1.12	498.92	
AOC9-MW16	4/16/2012	497.31	1.34	495.97	
AOC9-MW17	4/16/2012	487.51	1.32	486.19	
AOC9-MW18	4/16/2012	527.84	12.26	515.58	
AOC9-MW19	4/16/2012	523.38	9.79	513.59	
September 2012 Performance Monitoring					
G009-MW01	9/25/2012	492.67	-0.3	492.97	Negative value indicates water was above ground surface.
G009-MW02	9/25/2012	494.54	3.08	491.46	
G009-MW03	9/25/2012	485.1	-0.37	485.47	Negative value indicates water was above ground surface.
G009-MW04	9/25/2012	483.97	6.62	477.35	
AOC9-MW05	9/25/2012	482.72	4.22	478.5	
AOC9-MW06	9/25/2012	482.57	5.31	477.26	
AOC9-MW07	9/25/2012	483.25	0.48	482.77	
AOC9-MW08	9/25/2012	514.28	9.79	504.49	
AOC9-MW12	9/25/2012	509.09	5.36	503.73	

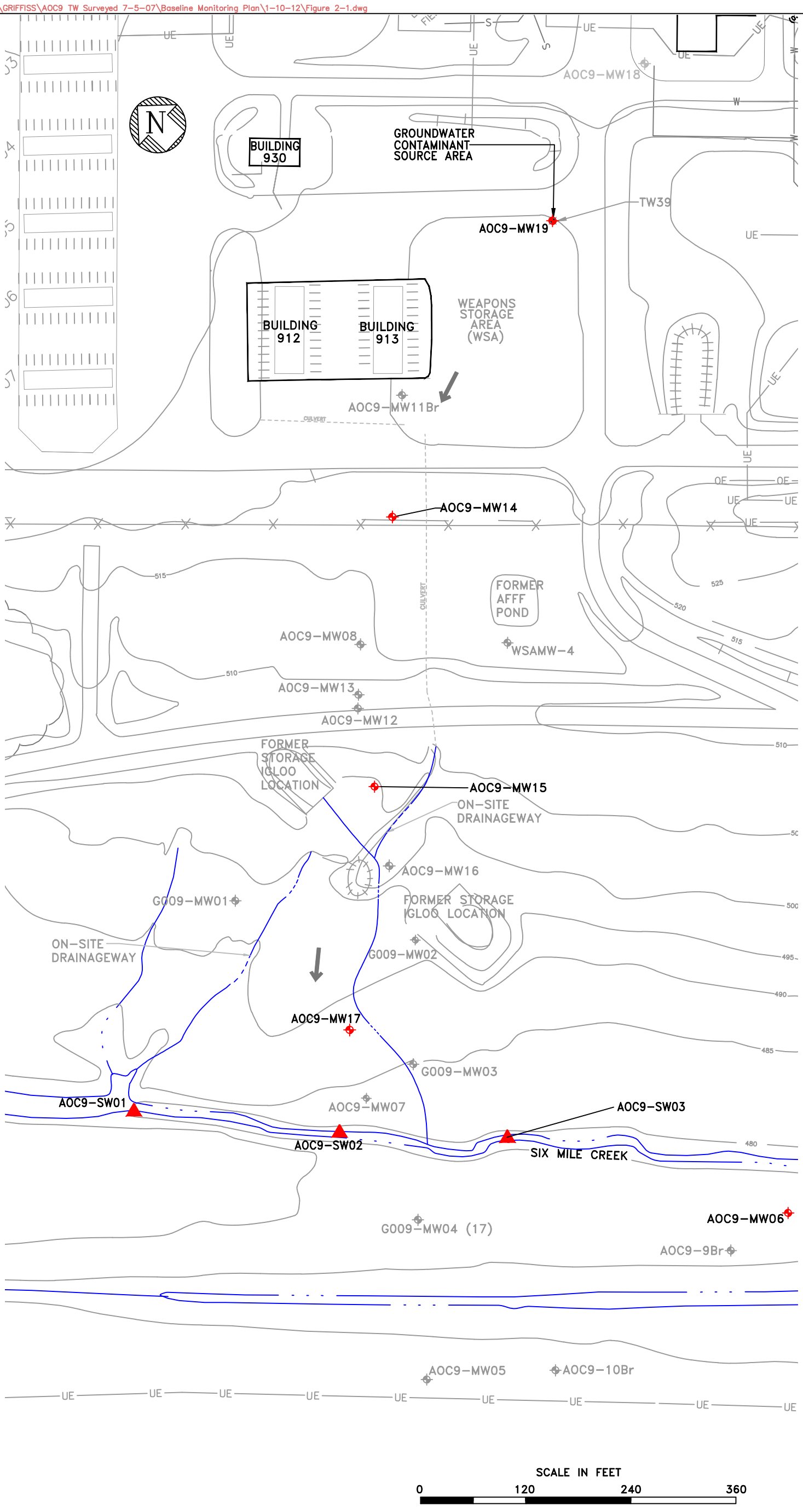
Table 2-2 AOC 9 Performance Monitoring Groundwater Elevation Data, Former Griffiss Air Force Base, Rome, New York

Monitoring Well ID	Date	Ground Surface Elevation (feet AMSL)	Water Level (feet BGS)	Water Level Elevation (feet AMSL)	Comments
AOC9-MW13	9/25/2012	508.53	4.59	503.94	
AOC9-MW14	9/25/2012	519.05	13.63	505.42	
AOC9-MW15	9/25/2012	500.04	1.27	498.77	
AOC9-MW16	9/25/2012	497.31	1.48	495.83	
AOC9-MW17	9/25/2012	487.51	1.12	486.39	
AOC9-MW18	9/25/2012	527.84	14.12	513.72	
AOC9-MW19	9/25/2012	523.38	11.41	511.97	

Key:

AMS = Above mean sea level
AOC = Area of Concern
BGS = Below Ground Surface
ft = Feet
MW = Monitoring Well
NA = Not Available

F:\GRIFFISS\AOC9 TW Surveyed 7-5-07\Baseline Monitoring Plan\1-10-12\Figure 2-1.dwg



LEGEND

- 525 — TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
- AOC9-MW14 — PERFORMANCE MONITORING WELL SAMPLE LOCATION
- EXISTING WELL
- GROUNDWATER FLOW DIRECTION
- SURFACE WATER SAMPLING LOCATIONS
- TW39 — TEMPORARY MONITORING WELL

NOTES:

1. MONITORING WELL AOC9-MW19 IS A NEW WELL INSTALLED IN THE PLUME SOURCE AREA AFTER THE AOC9 GROUNDWATER REMEDY WAS COMPLETED, AND PRIOR TO PERFORMANCE MONITORING. AOC9-MW19 WAS INSTALLED AT THE LOCATION OF TEMPORARY WELL TW-39, WHICH CONTAINED 21,610 ug/L OF TOTAL VOCs IN GROUNDWATER.

SCALE IN FEET

0 120 240 360

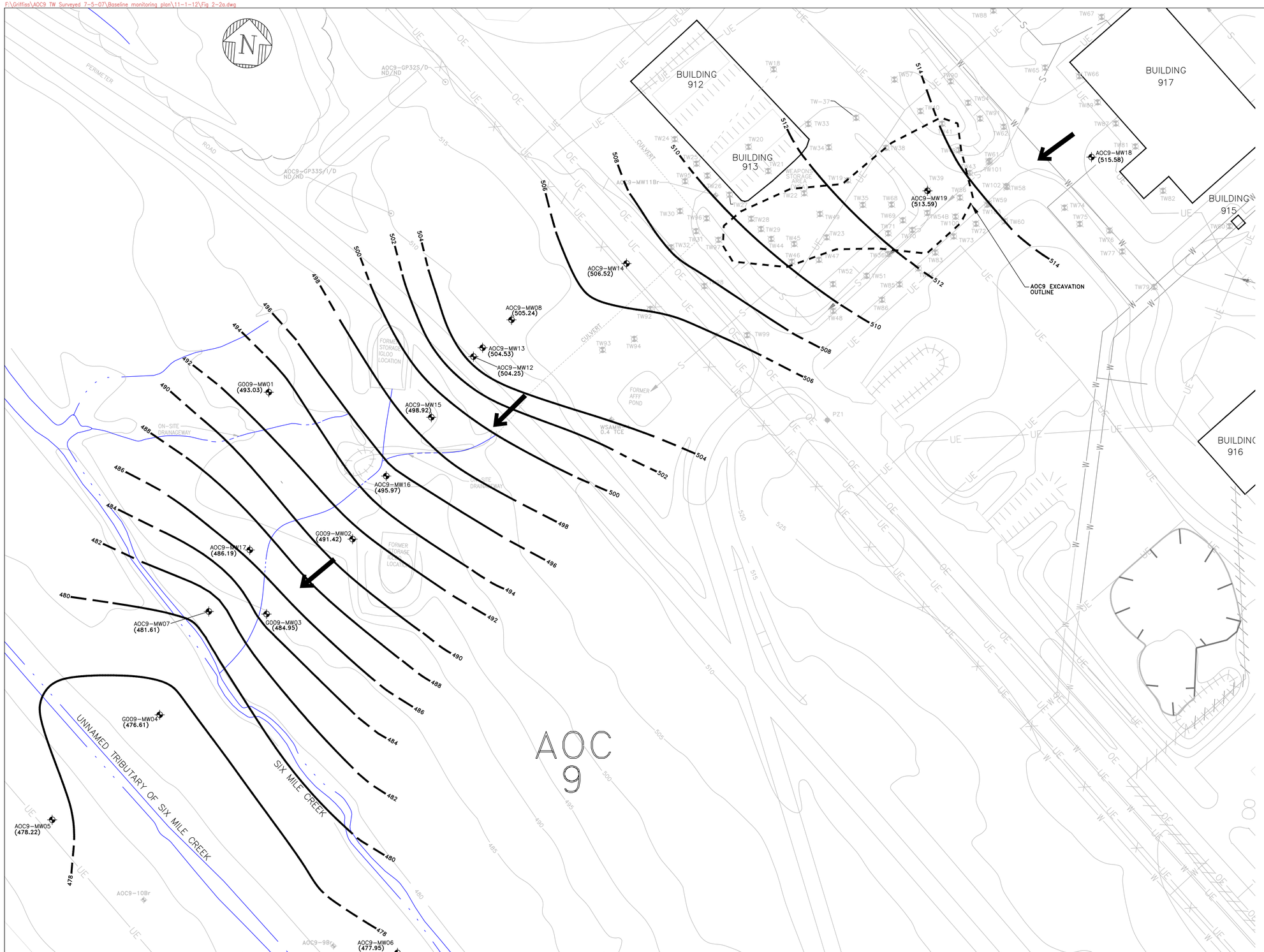
FORMER GRIFFISS AFB
AOC 9 SITE
ROME, NEW YORK

Prepared by:
ecology and environment engineering p.c.
In association with:
parsons

DRAWING TITLE:
AOC 9
PERFORMANCE MONITORING
SAMPLE LOCATION MAP

FIGURE 2-1

F:\Griffiss\AOC9 TW Surveyed 7-5-07\Baseline monitoring plan\11-1-12\Fig 2-2a.dwg



LEGEND

- FENCE
- TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
- UE — UNDERGROUND ELECTRIC
- W — WATER LINE
- S — SANITARY SEWER
- OE — OVERHEAD ELECTRIC
- ABANDONED UNDERGROUND ELECTRIC
- AMSL — ABOVE MEAN SEA LEVEL
- 476 — GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- DIRECTION OF GROUNDWATER FLOW
- G009-MW01 — PERMANENT MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION
- TW44 — TEMPORARY MONITORING WELL LOCATION
- PZ-1 — PIEZOMETER LOCATION
- (517.35) — APRIL 16, 2012 GROUNDWATER ELEVATION (FEET AMSL)

NOTE:
1. GROUNDWATER ELEVATIONS WERE COLLECTED ON 4/16/2012.

60 0 60 120
SCALE: 1"=60'

GRIFFISS AFB
AOC 9 SITE
ROME, NEW YORK

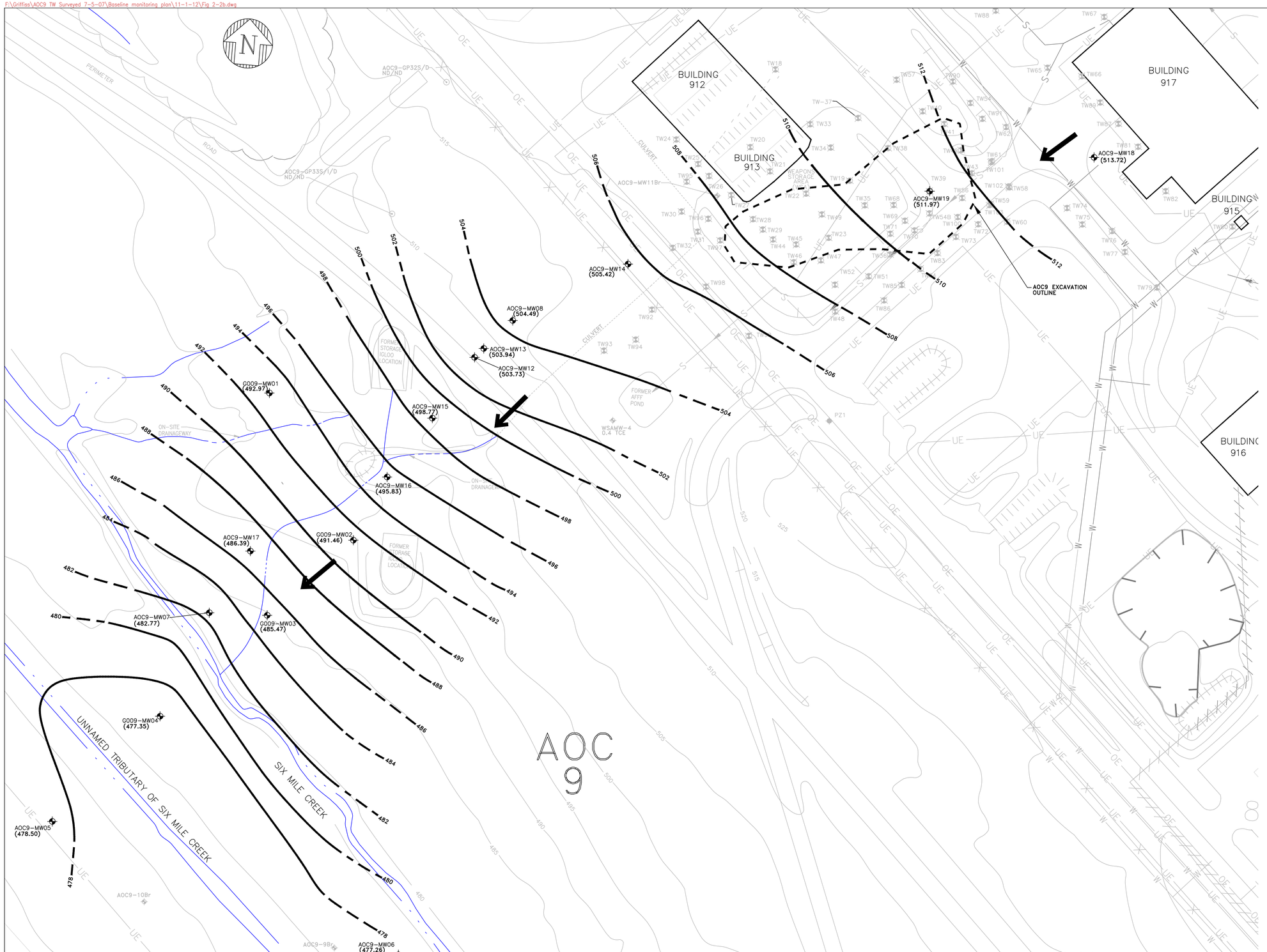
Prepared by: ecology and environment engineering p.c.

In Association with: parsons

DRAWING TITLE:
AOC 9: GROUNDWATER CONTOUR MAP
APRIL 16, 2012

FIGURE 2-2a

F:\Griffiss\AOC9 TW Surveyed 7-5-07\Baseline monitoring plan\11-1-12\Fig 2-2b.dwg



LEGEND

X	FENCE
525	TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
UE	UNDERGROUND ELECTRIC
W	WATER LINE
S	SANITARY SEWER
OE	OVERHEAD ELECTRIC
	ABANDONED UNDERGROUND ELECTRIC
AMSL	ABOVE MEAN SEA LEVEL
476	GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
	DIRECTION OF GROUNDWATER FLOW
G009-MW01	PERMANENT MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION
TW44	TEMPORARY MONITORING WELL LOCATION
PZ-1	PIEZOMETER LOCATION
(517.35)	SEPTEMBER 25, 2012 GROUNDWATER ELEVATION (FEET AMSL)

NOTE:
1. GROUNDWATER ELEVATIONS WERE COLLECTED ON 9/25/2012.

60 0 60 120
SCALE: 1"=60'

GRIFFISS AFB
AOC 9 SITE
ROME, NEW YORK

Prepared by: ecology and environment engineering p.c.

In Association with: parsons

DRAWING TITLE:
AOC 9: GROUNDWATER CONTOUR MAP SEPTEMBER 25, 2012

FIGURE 2-2b

3 AOC 9 Performance Monitoring Findings

This section presents the results from the April 2012 and September 2012 performance monitoring conducted at AOC 9 at the former Griffiss AFB in Rome, New York, as described in Section 2.

The AOC 9 April 2012 and September 2012 performance monitoring was intended to evaluate the short-term effectiveness of the remediation efforts on VOC concentrations in the groundwater and Six Mile Creek. The AOC 9 April 2012 and September 2012 performance monitoring groundwater data are screened against the most stringent of either the NYSDEC Class GA groundwater criteria or the EPA MCLs. For groundwater COCs at AOC 9, the NYSDEC Class GA criteria are the more stringent of the screening criteria. Surface water data is screened against the NYSDEC Class C freshwater fish propagation standards and guidance values. Data collected during the AOC 9 April 2012 and September 2012 performance monitoring have been provided by the laboratory in Environmental Restoration Program Information Management System (ERPIMS)-compatible format. The performance monitoring data has been added to the Air Force database.

3.1 April 2012 Performance Monitoring

3.1.1 Groundwater Sampling Results

Six groundwater samples were collected from five monitoring wells, including one duplicate sample, and analyzed for VOCs (EPA Method SW8260B) by Katahdin Analytical Services. The purpose of the water sampling was to evaluate VOC concentrations within the contaminant plume following the remedial excavation activities. The water samples were collected between April 16 and 17, 2012.

Groundwater samples were collected from monitoring wells screened predominately in very fine to medium grained sand at depths ranging from 4 to 24 feet BGS and constructed with either a 5-foot or a 10-foot (2-inch diameter, 0.01-inch slot) PVC screen. Each sample was analyzed for VOCs (EPA Method SW8260B) as described in Section 2. A summary of the positive analytical results for April 2012 performance groundwater samples is presented in Table 3-1a. Historical sampling results are presented in Table 3-3. Figure 2-1 shows the locations of the monitoring wells.

The completed groundwater sampling forms are provided in Appendix C; the complete analytical data are included on compact disk (CD) in Appendix E; a complete list of all samples collected is provided in Table 2-1; and Figure 3-1a shows the locations of the monitoring wells with total VOC contaminant concentrations.

The primary COCs for AOC 9 include; chlorobenzene, 1,2-DCB, 1,4-DCB, and TCE, which constitute approximately 96% of the total VOCs detected on-site within the center line of the plume. Figure 3-1a illustrates the total VOC concentrations in groundwater based on the analytical data obtained during the April 2012 performance monitoring event and the historical geoprobe data that was used to generate the non-detect contour lines.

Source Area Well [MW19]

Three primary COCs, 1,2-DCB, 1,4-DCB, and chlorobenzene, were detected in the groundwater sample collected at MW19. All three of the primary contaminants; chlorobenzene (33 µg/L), 11,4-,2-DCB (3.8 µg/L), and 1,4-DCB (4.5 µg/L) exceeded NYSDEC Class GA groundwater standards. Additionally, two other VOCs (cis-1,2-dichloroethylene [12 µg/L] and vinyl chloride [2.9 µg/L]), were detected and exceeded the screening criteria.

Center Line of Plume (Downgradient of Source Area) Wells [MW14, MW15, and MW17]

Sixteen VOCs, including the four primary COCs, chlorobenzene, TCE, and 1,2-DCB, and 1,4-DCB were detected in the groundwater samples collected. Five of the contaminants exceeded the NYSDEC Class GA groundwater standards. Chlorobenzene, 1,2-DCB, and 1,4-DCB exceeded the screening criteria in all three monitoring wells. TCE (20 µg/L) only exceeded the screening criteria in MW17. The highest total VOC concentrations were detected in monitoring wells MW15 (360 µg/L) and MW17 (380 µg/L) during this April 2012 sampling event.

Sentinel (Downgradient) Well [MW06]

No contaminants were detected in the groundwater samples collected at MW06.

Groundwater Elevation Measurements

Groundwater elevations were collected in accordance with the work plan by measuring the depth to water at 16 locations (see Table 2-2) using a water level indicator to measure the static water levels from the top of the casing at each location. These measurements were used to create a groundwater contour map (see Figure 2-2a).

Based on these data, the groundwater on-site flows generally to the southwest from the vicinity of Building 917, through the AOC 9 contaminant source area, and ultimately towards Six Mile Creek. The depth to groundwater and direction of groundwater flow has remained consistent following the excavation and backfill of the contaminant source area, while exhibiting typical seasonal variations.

3.1.2 Surface Water Sampling Results

Three surface water samples were collected from Six Mile Creek (SW01, SW02, SW03) and analyzed for VOCs (EPA Method SW8260B) by Katahdin Analytical Services. The purpose of the surface water samples collected was to establish April 2012 performance monitoring VOC concentrations within Six Mile Creek following the remedial excavation activities. The surface water samples were collected on April 16, 2012.

Figure 2-1 shows the location of the surface water sampling locations and Figure 3-1a shows the total VOC contaminants in surface water based on analytical data obtained from this monitoring event.

Only one VOC was detected in the surface water samples collected during this investigation (see Table 3-2a). Acetone was detected in all samples, however, no screening criteria exists for acetone under the NYSDEC Class C Freshwater Fish Propagation Standards and Guidance Values. The highest acetone concentration was detected during this investigation in surface water sample SW02 (3.2 µg/L), which was collected at the location immediately upstream of where the center of the groundwater contaminant plume intersects Six Mile Creek. Acetone concentrations ranged from 2.5 µg/L to 3.2 µg/L in the surface water samples.

The completed surface water sampling forms are provided in Appendix C, the complete analytical data are included on CD in Appendix E, a complete list of all samples collected is provided in Table 2-1, a summary of the positive analytical results for the surface water samples is presented in Table 3-2a, and Figure 3-1a shows the locations of Six Mile Creek surface water sample location with total VOC contaminant concentrations.

3.1.3 Trend Analysis

Available historic data collected from monitoring wells MW06, MW014, MW15, MW17, and MW19 and surface water sample locations SW01, SW02, and SW03 are provided in Tables 3-3 and 3-4, respectively. Data collected in 2003 during the groundwater treatability study, during which Fenton's reagent was injected into the groundwater in the vicinity of monitoring well MW08, have not been included in the historical data summary tables as the analytical results were impacted by the treatability study.

However, available data for each sample location have been plotted on trend graphs and are provided in Figures 3-5 through 3-9. Data from 2006 to the current sampling event is provided for all wells, except MW06 and MW19. MW06 has data beginning in 2002 and MW19 was first sampled during the May 2011 performance monitoring event. The trend graphs show total VOC concentration for each sampling event and a discussion of the changes observed is described below.

Source Area Well (MW19)

MW19, installed following the remedial excavation, was first sampled during the first performance monitoring event. The total VOC concentration detected during that first performance sampling in May 2011 was 31 µg/L. The total VOC concentration in MW19 increased to 42 µg/L, detected during the October 2011 performance monitoring, and increased again to 57 µg/L in April 2012 (see Figure 3-9). While this slight increase could be attributed to seasonal variation or rebounding of residual contamination within the source area, it should be noted that the overall total VOC concentration has decreased from 21,610 µg/L, which was detected in temporary monitoring well TW39 at the same location during the PDI 2 sampling performed in 2007. Two primary COCs showed a slight increase during the April 2012 event. Chlorobenzene increased from 14 µg/L to 33 µg/L and 1,4-DCB increased from 4.0 µg/L to 4.5 µg/L. 1,2-DCB (6.0 µg/L to 3.8 µg/L) and TCE (0.5 µg/L to non-detect) both decreased in concentration during this April 2012 sampling event.

Center Line of Plume (Downgradient of Source Area) Wells (MW14, MW15, and MW17)

MW14 continues to show a decrease in concentration in all four primary COCs since baseline sampling in July 2010. Since baseline sampling at MW14 in July 2010; chlorobenzene has decreased in concentration from 1,400 to 200 µg/L, 1,2-DCB has decreased from 130 to 22 µg/L, 1,4-DCB has decreased from 87 to 20 µg/L, and TCE has decreased from 28 µg/L to non-detect. The total VOC concentration in MW14 decreased from 2,100 µg/L during baseline sampling to 250 µg/L during this third performance monitoring sampling event.

Three primary COCs (chlorobenzene, 1,2-DCB, and 1,4-DCB) exceeded the screening criteria during this April 2012 performance monitoring event. The total VOC concentration in MW14 decreased from 1,200 µg/L during the first performance sampling to 250 µg/L during this third performance monitoring sampling event. In addition, no VOCs showed an increase in concentration during this April 2012 sampling event. Historically, overall total VOC concentration has decreased (see Figure 3-6).

MW15 has shown a decrease in concentration in all of the primary COCs since baseline sampling. Chlorobenzene has decreased in concentration from 1,300 to 320 µg/L, 1,2-DCB has decreased from 55 µg/L to 19 µg/L, 1,4-DCB has decreased from 64 to 17 µg/L, and TCE decreased from 2.0 µg/L to non-detect. The total VOC concentrations at MW15 decreased from 1,700 µg/L to 360 µg/L. Historically, total VOC concentration trends in MW15 show a decrease (see Figure 3-7).

MW15 continues to show a decrease in concentration in all of the primary COCs over the last three performance sampling rounds. The total VOC concentrations in MW15 decreased from 1,100 µg/L during the first performance monitoring sampling to 360 µg/L during this third performance monitoring sampling event.

Historically, total VOC concentration trends in MW15 show a decrease (see Figure 3-7).

MW17 has shown a decrease in concentration in two of the primary COCs since baseline sampling in July 2010. Chlorobenzene has decreased in concentration from 760 to 270 µg/L and 1,4-DCB has decreased from 38 to 15 µg/L. TCE and 1,2-DCB have shown fluctuations in concentration since baseline sampling. Over the same time period, total VOC concentrations at MW17 decreased from 890 µg/L to 380 µg/L.

MW17 has shown a decrease in concentration in three of the primary COCs, with all four exceeding the screening criteria since the second performance monitoring event in October 2011. Chlorobenzene has decreased in concentration from 540 to 270 µg/L, 1,4-DCB has decreased from 26 to 15 µg/L, and 1,2-DCB has decreased from 69 µg/L to 67 µg/L. TCE has increased from 14 to 20 µg/L since the second performance sampling. At the same time, total VOC concentrations at MW17 decreased from 680 µg/L to 380 µg/L. Historically, total VOC concentrations in MW17 have fluctuated, but an overall decrease can be observed since baseline sampling in July 2010 on Figure 3-8.

Sentinel (Downgradient) Well (MW06)

Total VOC concentrations detected at MW06 were 1.0 µg/L, 1.0 µg/L and 6.9 µg/L during the baseline sampling, and first and second performance monitoring events, respectively. However, during this third performance monitoring event in April 2012, no VOCs were detected in MW06 (see Figure 3-5).

Surface Water (SW01, SW02, and SW03)

Total VOC concentrations detected during baseline sampling at surface water locations SW01, SW02, and SW03 were non-detect 5.2 µg/L, and 3.6 µg/L, respectively. During the first performance monitoring event surface water sample results obtained at SW02 and SW03 showed a decrease in total VOC concentration, 2.0 µg/L and 2.2 µg/L, respectively, while SW01 showed a slight increase (0.60 µg/L). Since the second performance monitoring event surface water sample results obtained from all three locations have shown a decrease in concentration of all primary COCs. All four primary COCs were non-detect during this third performance monitoring event. The upstream location (SW01) and the downstream location (SW03) previously had total VOC concentrations of 2.1 µg/L and 2.2 µg/L, respectively, during the second performance monitoring sampling, which increased to 2.5 µg/L and 2.9 µg/L, respectively, during this third performance monitoring event. However, the increase in total VOC concentration was due to the detection of acetone. Acetone was the only VOC detected in all three surface water samples. Concentrations of acetone in the three surface water samples ranged from 2.1 µg/L to 3.2 µg/L. The location where the center of the groundwater contaminant plume intersects Six Mile Creek (SW02) had the largest decrease in total VOC concentrations from 9.7 to 3.2 µg/L; acetone was the only detection. The presence of acetone in the surface water samples may be attributed to a potential upgradient source or laboratory contaminant, although acetone has

not been detected in any of the groundwater samples or method, field, and trip blanks.

Summary

Overall, the April 2012 performance monitoring analytical results indicate that the AOC 9 total VOC concentration is decreasing in comparison to the 2010 baseline sampling and first two rounds of performance results and the groundwater plume has continued to decrease in size to those same events for chlorobenzene and total DCBs (see Figures 3-2 and 3-4). The TCE plume has decreased since 2010 baseline sampling, but has remained relatively stable since the May 2011 performance monitoring event. Based on the analytical results obtained from monitoring well MW06, the leading edge of the plume appears to have remained stable. In addition, the plume area within the source area excavation has remained stable in size and generally shown a decrease in VOC concentration. The increases in contaminant concentration within MW19 may be attributed to seasonal variations or potential rebounding of residual contamination left in the source area after remediation activities. Additional historical data are tabulated and trend graphs are provided in Section 3.3. A comparison of April 2012 performance analytical results to the baseline, May 2011 performance, October 2011 performance, and historical analytical results indicates that the AOC 9 groundwater plume has generally continued to show a decrease in total VOC concentration. Figures 3-2 through 3-4 show the changes in plume size based on the concentrations of the primary COCs.

3.1.4 MAROS Evaluation

The historical and performance sampling results collected at AOC 9 were analyzed for statistical trend analyses using the Air Force Center for Engineering and the Environment (AFCEE's) Monitoring and Remediation Optimization System Software (MAROS) Version 2.2 program to assess trends in contaminant concentrations along the observed plume and evaluate the effectiveness of the remedy implemented at the site (see Appendix H). Currently, performance monitoring at the site consists of sampling for VOCs at five wells along the center line of the plume. These wells include: MW06, MW14, MW15, MW17, and MW19. Additional well data was added to the program for MW01 and MW02 as necessitated by the program to fully perform plume computations; MAROS requires input of data for a minimum of six well locations with at least four sampling events to perform several of the analyses. These two additional well data sets will also provide historical reference of the plume concentrations and further delineate the plume in MAROS; no future sampling has been proposed at these locations. Figures 3-5 through 3-9 are trend graphs for wells MW06, MW14, MW15, and MW17. MAROS was not performed on MW19 (first sampled during this May 2011 performance sampling event) as there was not a sufficient amount of data. However, available data for MW19 has been plotted on a trend graph and is provided in Figure 3-9.

Model input required by MAROS included analytical results for each sampling event as observed at individual well locations, coordinates of each well, estimates of current plume geometry (e.g., length and width), aquifer characteristics (e.g.,

seepage velocity, porosity, and thickness) and the type of treatment implemented at the source location.

Several trend analyses were performed in the model for the primary COCs: 1,2-DCB, 1,4-DCB, chlorobenzene, and TCE. Output results from the MAROS evaluations are attached (see Appendix H), showing the Mann-Kendall Statistics, Linear Regression, Statistical Trend, Spatial Moment Analysis and Plume Analysis Summaries. Mann-Kendall will be the analysis used for evaluating the treatment effectiveness for AOC 9; this is the most common statistical approach in the MAROS program used for groundwater assessment applications. Mann-Kendall is the most common statistical method for groundwater data evaluation as it is a nonparametric analysis that accounts for the assumptions made for the plume geometry and aquifer characteristics and does not assume a statistical distribution (i.e., normal distribution) of the groundwater data. Most groundwater data is not distributed normally, due to the problem of left censoring (no values recorded below the detection limit) and the occasional very high concentration, orders of magnitude above the detection limit.

The statistical analysis performed using the Mann-Kendall model indicates that concentrations of chlorobenzene and 1,4-DCB are decreasing within the wells (MW14 and MW15) downgradient of the former source area. 1,2-DCB also shows a decreasing trend in MW14 (see Appendix H). The model indicates that TCE and 1,2-DCB remain stable in MW15 and chlorobenzene and 1,4-DCB remain stable is MW17. Overall, the Mann-Kendall model does indicate a downward trend within the contaminant plume immediately downgradient of the groundwater remediation area, and does not indicate any increasing trends for the primary COCs at any well; TCE does appear to have stabilized in the plume. Long-term monitoring of the site, in accordance with the work plan, is necessary to fully examine the effectiveness of the AOC 9 remedial action and to further evaluate potential migration of contaminants.

3.1.5 April 2012 Summary

The April 2012 performance sampling conducted at AOC 9 consists of groundwater and surface water sampling and analysis to evaluate the VOC concentrations in the groundwater plume and Six Mile Creek following the remedial excavation activities.

Six groundwater and three surface water samples were collected from the five monitoring wells and Six Mile Creek, including one duplicate sample, and analyzed for VOCs (EPA Method SW8260B) by Katahdin Analytical Services. Figure 2-1 shows the sampling locations and Figure 3-1a shows the total VOC contaminant concentrations in groundwater and surface water based on the analytical data obtained during this monitoring event.

A comparison of April 2012 performance analytical results to the baseline and historical analytical results indicates that the AOC 9 VOC concentrations have generally continued to decrease (see Table 3-3). Based on the analytical results

obtained from monitoring well MW06, the plume appears to have remained stable along the leading edge. MW19 results indicate the plume has decreased in concentration within the vicinity of the source area for TCE and total DCBs, while chlorobenzene has shown a slight increase. The results obtained from MW14, MW15, and MW17 indicate that total VOC concentrations within the plume have begun to decrease in VOC concentrations.

Surface water sample results obtained from sample locations SW01, SW02, and SW03 have also shown a slight increase in VOC concentration during this performance sampling due to the detection of acetone. However, surface water samples have shown a decrease in concentration in all other VOCs, including the primary COCs, which were non-detect during the April 2012 performance monitoring event.

All wells have shown a contaminant concentration decrease, with the exception of upgradient well MW19. The contaminant concentration increases seen in MW19 are potentially due to residual contamination in the source area rebounding. All surface water samples have shown a decrease in contaminant concentration, with the exception of acetone in all three samples, which may be attributed to a potential upgradient source, rather than the contaminant plume, as acetone was not present in the groundwater samples.

The fourth performance monitoring event took place in the fall of 2012 to continue evaluation of the effectiveness of the remediation efforts and provide additional data for evaluating potential locations for sodium persulfate injections. No changes to the approved monitoring plan are proposed at this time.

3.2 September 2012 Performance Monitoring

3.2.1 Groundwater Sampling Results

Six groundwater samples were collected from five monitoring wells, including one duplicate sample, and analyzed for VOCs (EPA Method SW8260B) by Katahdin Analytical Services. The purpose of the water sampling was to evaluate VOC concentrations within the contaminant plume following the remedial excavation activities. The water samples were collected between September 25 and 26, 2012.

Groundwater samples were collected from monitoring wells screened predominately in very fine to medium grained sand at depths ranging from 4 to 24 feet BGS and constructed with either a 5-foot or a 10-foot (2-inch diameter, 0.01-inch slot) PVC screen. Each sample was analyzed for VOCs (EPA Method SW8260B) as described in Section 2. A summary of the positive analytical results for September 2012 performance groundwater samples is presented in Table 3-1b. Historical sampling results are presented in Table 3-3. Figure 2-1 shows the locations of the monitoring wells.

The primary COCs for AOC 9 include; chlorobenzene, 1,2-DCB, 1,4-DCB, and TCE, which constitute approximately 96% of the total VOCs detected on-site

within the center line of the plume. Figure 3-1b illustrates the total VOC concentrations in groundwater based on the analytical data obtained during the September 2012 performance monitoring event and the historical geoprobe data that was used to generate the non-detect contour lines.

Source Area Well [MW19]

All four primary COCs, 1,2-DCB, 1,4-DCB, chlorobenzene, and TCE, were detected in the groundwater sample collected at MW19. Three of the primary COCs exceeded NYSDEC Class GA groundwater standards; chlorobenzene (38 µg/L), 1,2-DCB (6.8 µg/L), and 1,4-DCB (5.3 µg/L). Additionally, two other VOCs (cis-1,2-dichloroethylene [1.8 µg/L] and benzene [0.28 µg/L]), were detected, but did not exceed the screening criteria.

Center Line of Plume (Downgradient of Source Area) Wells [MW14, MW15, and MW17]

Eighteen VOCs, including the four primary COCs, chlorobenzene, TCE, and 1,2-DCB, and 1,4-DCB were detected in the groundwater samples collected. Seven of the contaminants exceeded the NYSDEC Class GA groundwater standards. Chlorobenzene, 1,2-DCB, and 1,4-DCB exceeded the screening criteria in all three monitoring wells. TCE (19 µg/L) only exceeded the screening criteria in MW17. The highest total VOC concentrations detected were in monitoring wells MW15 (350 µg/L) and MW17 (450 µg/L) during this September 2012 sampling event.

Sentinel (Downgradient) Well [MW06]

Only one primary COC, TCE (1.4 µg/L) was detected in the groundwater samples collected at MW06 and did not exceed the NYSDEC Class GA groundwater standards.

A summary of the positive analytical results for the September 2012 performance groundwater samples is presented in Table 3-1b. The completed groundwater sampling forms are provided in Appendix C; the complete analytical data are included on CD in Appendix E; a complete list of all samples collected is provided in Table 2-1; and Figure 3-1b shows the locations of the monitoring wells with total VOC contaminant concentrations.

Groundwater Elevation Measurements

Groundwater elevations were collected in accordance with the work plan by measuring the depth to water at 16 locations (see Table 2-2) using a water level indicator to measure the static water levels from the top of the casing at each location. These measurements were used to create a groundwater contour map (see Figure 2-2b).

Based on these data, the groundwater on-site flows generally to the southwest from the vicinity of Building 917, through the AOC 9 contaminant source area, and ultimately towards Six Mile Creek. The depth to groundwater and direction

of groundwater flow has remained consistent following the excavation and back-fill of the contaminant source area, while exhibiting typical seasonal variations.

3.2.2 Surface Water Sampling Results

Three surface water samples were collected from Six Mile Creek (SW01, SW02, SW03) and analyzed for VOCs (EPA Method SW8260B) by Katahdin Analytical Services. The purpose of the surface water samples collected was to establish September 2012 performance monitoring VOC concentrations within Six Mile Creek following the remedial excavation activities. The surface water samples were collected on September 25, 2012.

Figure 2-1 shows the location of the surface water sampling locations and Figure 3-1b shows the total VOC contaminants in surface water based on analytical data obtained from this monitoring event.

Only one VOC was detected in the surface water samples collected during this investigation (see Table 3-2b). Acetone was detected at SW02 (2.4 µg/L), however, no screening criteria exists for acetone under the NYSDEC Class C Freshwater Fish Propagation Standards and Guidance Values. This location is immediately upstream of where the center of the groundwater contaminant plume intersects Six Mile Creek.

The completed surface water sampling forms are provided in Appendix C, the complete analytical data are included on CD in Appendix E; a complete list of all samples collected is provided in Table 2-1, a summary of the positive analytical results for the surface water samples is presented in Table 3-2b, and Figure 3-1b shows the locations of Six Mile Creek surface water sample location with total VOC contaminant concentrations.

3.2.3 Trend Analysis

Available historic data collected from monitoring wells MW06, MW014, MW15, MW17, and MW19 and surface water sample locations SW01, SW02, and SW03 are provided in Tables 3-3 and 3-4, respectively. Data collected in 2003 during the groundwater treatability study, during which Fenton's reagent was injected into the groundwater in the vicinity of monitoring well MW08, have not been included in the historical data summary tables as the analytical results were impacted by the treatability study.

However, available data for each sample location have been plotted on trend graphs and are provided in Figures 3-5 through 3-9. Data from 2006 to the current sampling event is provided for all wells, except MW06 and MW19. MW06 has data beginning in 2002 and MW19 was first sampled during the May 2011 performance monitoring event. The trend graphs show total VOC concentration for each sampling event and a discussion of the changes observed is described below.

Source Area Well (MW19)

MW19, installed following the remedial excavation, was first sampled during the first performance monitoring event. The total VOC concentration detected during that first performance sampling in May 2011 was 31 µg/L. Following, a series of small increases over the first three performance monitoring sampling events, the total VOC concentration in the location of MW19 has decreased from 57 µg/L, detected during the April 2012 performance monitoring to 43 µg/L during this September 2012 performance monitoring event. Generally, the total VOC concentration in MW19 has fluctuated over the four performance monitoring events (see Figure 3-9). This fluctuation could be attributed to rebounding of residual contamination within the source area and it should be noted that the overall total VOC concentration has decreased from 21,610 µg/L, detected in temporary monitoring well TW39 at the same location during the PDI 2 sampling performed in 2007. Two primary COCs have shown a slight increase during this September 2012 sampling event. 1,2-DCB increased from 3.8 µg/L to 5.4 µg/L and TCE had a slight increase from non-detect to 0.3 µg/L. The other primary COCs showed slight decreases in concentration during this September 2012 sampling event.

Center Line of Plume (Downgradient of Source Area) Wells (MW14, MW15, and MW17)

MW14 continues to show a decrease in concentration in chlorobenzene since baseline sampling (1,400 µg/L to 190 µg/L). 1,2-DCB, 1,4-DCB, and TCE have also shown a decrease in concentration since baseline sampling, 130 µg/L to 24 µg/L, 87 µg/L to 21 µg/L, and 28 µg/L to 1.2 µg/L, respectively. The total VOC concentration in MW14 decreased from 2,100 µg/L during baseline sampling to 250 µg/L during this fourth performance monitoring sampling event.

MW14 showed a slight increase from the third performance monitoring event in three of the primary COCs during this fourth performance monitoring sampling event; 1,2-DCB (22 µg/L to 24 µg/L), 1,4-DCB (20 µg/L to 21) µg/L, and TCE (non-detect to 1.2 µg/L). TCE was the only primary COC to not exceed the screening criteria. Chlorobenzene continued to show a decrease in concentration in MW14 since baseline sampling, although it exceeded the screening criteria during this performance monitoring event. Since the first performance sampling round at MW14 in May 2011; chlorobenzene has decreased in concentration from 950 to 190 µg/L. The total VOC concentration in MW14 decreased from 1,200 µg/L during the first performance sampling to 250 µg/L during this fourth performance monitoring sampling event. Historically, total VOC concentration has decreased (see Figure 3-6).

MW15 has shown a decrease in concentration in all of the primary COCs since baseline sampling. Chlorobenzene has decreased in concentration from 1,300 µg/L to 250 µg/L, 1,2-DCB has decreased from 55 µg/L to 31 µg/L, 1,4-DCB has decreased from 64 µg/L to 19 µg/L, and TCE decreased from 2.0 µg/L to 0.34 µg/L. The total VOC concentration at MW15 decreased from 1,700 µg/L to 350 µg/L at baseline sampling to this fourth performance monitoring sampling event.

MW15 showed a slight increase in three of the primary COCs: 1,2-DCB (19 µg/L to 31 µg/L), 1,4-DCB (17 µg/L to 19 µg/L), and TCE (non-detect to 0.34 µg/L) since the third performance monitoring sampling event. TCE was the only primary COC to not exceed the screening criteria. Chlorobenzene continued to show a decrease in concentration in MW15 since baseline sampling, although it exceeded the screening criteria during this fourth performance monitoring event. Since the first performance sampling round at MW15 in May 2011; chlorobenzene has decreased in concentration from 990 to 290 µg/L. The total VOC concentrations at MW15 continued to decrease from 1,100 µg/L to 350 µg/L. Historically, total VOC concentration trends in MW15 show a decrease (see Figure 3-7).

MW17 has shown a decrease in concentration in two of the primary COCs since baseline sampling in July 2010. Chlorobenzene has decreased in concentration from 760 to 300 µg/L and 1,4-DCB has decreased from 38 to 22 µg/L. TCE and 1,2-DCB have shown fluctuations in concentration since baseline sampling. Over the same time period, total VOC concentrations at MW17 decreased from 890 µg/L to 450 µg/L.

MW17 has shown an increase in concentration during this fourth performance monitoring sampling event in three of the primary COCs, with all three exceeding the screening criteria. Since the third performance monitoring event, chlorobenzene has increased in concentration from 270 to 300 µg/L, 1,4-DCB has increased from 15 to 22 µg/L, and 1,2-DCB has increased from 67 µg/L to 91 µg/L. TCE had a slight decrease from 20 to 19 µg/L since the third performance sampling in April 2012. Although total VOCs increased from the third performance monitoring event (380 µg/L to 450 µg/L), the total VOC concentrations at MW17 have decreased from 560 µg/L to 450 µg/L since the first performance monitoring sampling. Historically, total VOC concentrations in MW17 have fluctuated, but an overall decrease can be observed since baseline sampling in July 2010 on Figure 3-8.

Sentinel (Downgradient) Well (MW06)

Total VOC concentrations detected at MW06 were 1.0 µg/L, 1.0 µg/L, and 69 µg/L during the baseline sampling, and first and second performance monitoring events, respectively. Generally, TCE is the only VOC detected at MW06. TCE showed a slight increase from non-detect during the third performance monitoring event to 1.4 µg/L during this fourth performance monitoring event. In addition, total VOC concentrations increased from non-detect during the third performance monitoring event to 1.4 µg/L during this fourth performance monitoring event (see Figure 3-5).

Surface Water (SW01, SW02, and SW03)

Total VOC concentrations detected at surface water location SW01, SW02, and SW03 during baseline sampling were non-detect, 5.2 µg/L, and 3.6 µg/L, respectively. Surface water sample results obtained from sample locations SW01, SW02, and SW03 have shown a decrease in concentration of contaminants since the third performance monitoring event. All four primary COCs were again non-

detect during this fourth performance monitoring event. During the third performance monitoring event, acetone was the only contaminant detected. The upstream location (SW01) and the downstream location (SW03) previously had total VOC concentrations of 2.5 µg/L and 2.9 µg/L during the third performance monitoring sampling, which both decreased to non-detect during this fourth performance monitoring event. Acetone was only detected in surface water sample SW02 with concentrations decreasing from 3.2 to 2.4 µg/L. SW02 is the location where the center of the groundwater contaminant plume intersects Six Mile Creek. The presence of acetone in the surface water samples may be attributed to a potential upgradient source or laboratory contaminant, although acetone has not been detected in any of the groundwater samples or method, field, and trip blanks since the April 2012 performance sampling event.

Overall, the September 2012 performance monitoring analytical results indicate that the AOC 9 total VOC concentration is decreasing in comparison to the 2010 baseline sampling and first two rounds of performance results. The plume generally appears the have remained relatively stable in both VOC concentration and size compared to the third round of performance results, although there are some slight increases in concentrations during this fourth performance monitoring event. The chlorobenzene plume appears to have slightly decreased in size and concentration within the source area (see Figure 3-2). Although the total DCB plume has slightly increased in VOC concentration, the size of the plume has remained relatively stable. Similar trends are seen for the TCE plume (see Figures 3-3 and 3-4). Based on the analytical results obtained from monitoring well MW06, the leading edge of the plume appears to have remained stable. The contaminant concentrations within MW19 may be attributed to potential rebounding of residual contamination left in the source area after remediation activities. Additional historical data are tabulated and trend graphs are provided in Section 3.3. A comparison of September 2012 performance analytical results to the baseline, May 2011 performance, October 2011 performance, and historical analytical results indicates that the AOC 9 groundwater plume has generally continued to show a decrease in total VOC concentration, but have remained relatively stable to the April 2012 performance analytical results. Specifically, the size of the plume has decreased within the vicinity of the source area. Figures 3-2 through 3-4 show the changes in plume size based on the concentrations of the primary COCs.

3.2.4 MAROS Evaluation

The historical and performance sampling results collected at AOC 9 were analyzed for statistical trend analyses using the AFCEE's MAROS Version 2.2 program to assess trends in contaminant concentrations along the observed plume and evaluate the effectiveness of the remedy implemented at the site (see Appendix H). Currently, performance monitoring at the site consists of sampling for VOCs at five wells along the center line of the plume. These wells include: MW06, MW14, MW15, MW17, and MW19. Additional well data was added to the program for MW01 and MW02 as necessitated by the program to fully perform plume computations; MAROS requires input of data for a minimum of six

well locations with at least four sampling events to perform several of the analyses. These two additional well data sets will also provide historical reference of the plume concentrations and further delineate the plume in MAROS; no future sampling has been proposed at these locations. Figures 3-5 through 3-9 are trend graphs wells MW06, MW14, MW15, MW17, and MW19. MAROS was performed on MW19 (first sampled during the May 2011 performance sampling event) as there was a sufficient amount of data available.

Model input required by MAROS included analytical results for each sampling event as observed at individual well locations, coordinates of each well, estimates of current plume geometry (e.g., length and width), aquifer characteristics (e.g., seepage velocity, porosity, and thickness) and the type of treatment implemented at the source location.

Several trend analyses were performed in the model for the select COCs: 1,2-DCB, 1,4-DCB, chlorobenzene, and TCE. Output results from the MAROS evaluations are attached (see Appendix H), showing the Mann-Kendall Statistics, Linear Regression, Statistical Trend, Spatial Moment Analysis and Plume Analysis Summaries.

The statistical analysis performed using the Mann-Kendall model indicates that concentrations of chlorobenzene and 1,4-DCB are decreasing within the wells downgradient of the former source area (MW14 and MW15). 1,2-DCB also shows a decreasing trend in MW14 (see Appendix H). The model indicates that TCE and 1,2-DCB remain stable in MW15 and 1,4-DCB and chlorobenzene remain stable in MW17. Although total VOCs increased in monitoring well MW06 during the September 2012 performance monitoring event, the Mann-Kendall model does not statistically show any trend changes due to the small periodic fluctuations in the data. The model indicates an increasing trend for 1,4-DCB in MW19, although a decrease in total VOC concentration was noted. Overall, the Mann-Kendall model does indicate a downward trend within the contaminant plume immediately downgradient of the groundwater remediation area, and only indicates one increasing trend in concentration of any COC. Long-term monitoring of the site, in accordance with the work plan, is necessary to fully examine the effectiveness of the AOC 9 remedial action and to further evaluate potential migration of contaminants.

3.2.5 September 2012 Summary and Recommendations

The September 2012 performance sampling conducted at AOC 9 consists of groundwater and surface water sampling and analysis to evaluate the VOC concentrations in the groundwater plume and Six Mile Creek following the remedial excavation activities.

Six groundwater and three surface water samples were collected from the five monitoring wells and Six Mile Creek, including one duplicate sample, and analyzed for VOCs (EPA Method SW8260B) by Katahdin Analytical Services. Figure 2-1 shows the sampling locations and Figure 3-1b shows the total VOC con-

taminant concentrations in groundwater and surface water based on the analytical data obtained during this monitoring event.

A comparison of September 2012 performance analytical results to the baseline and historical analytical results indicates that the AOC 9 VOC concentrations have generally continued to decrease (see Table 3-3). Based on the analytical results obtained from monitoring well MW06, the plume appears to have remained stable along the leading edge. The results obtained from the center of plume wells (MW14, MW15, and MW17) indicate the plume has had significant reductions in concentrations of chlorobenzene and total DCBs, while TCE concentrations have remained relatively stable. Source area well, MW19, has remained stable in concentration within the vicinity of the source area for chlorobenzene and total DCBs.

Surface water sample results obtained from sample locations SW01, SW02, and SW03 have shown a decrease in VOC concentration during this performance sampling, although the only detection was again acetone.

Wells MW15 and MW19 have shown contaminant concentrations that have decreased, while MW14 has remained stable. MW06 and MW17 have shown contaminant concentrations that have increased slightly since the April 2012 monitoring event, but remain significantly decreased from the baseline levels. All surface water samples have shown a decrease in contaminant concentration. The only detection was acetone, which may be attributed to a potential upgradient source, rather than the contaminant plume, as acetone was not present in the groundwater samples.

The next round of sampling, the first round of long-term monitoring, will take place in the spring of 2013, to monitor the long-term effectiveness of the remedial efforts. No changes to the approved long-term monitoring plan are proposed at this time.

Table 3-1a AOC 9 April 2012 Performance Monitoring
Summary of Positive Results for Groundwater Samples
Former Griffiss Air Force Base, Rome, New York

Analyte	Screening Criteria [1]	Sample ID: AOC9-MW06PM04162012 Date: 04/16/12	AOC9-MW14PM04172012 04/17/12	AOC9-MW15PM04172012 04/17/12	AOC9-MW17PM04172012 04/17/12	AOC9-MW19PM04172012 04/17/12	AOC9-MW17/DPM04172012 04/17/12
VOCs by Method SW8260B							
1,2-Dichlorobenzene	3	1.0 U	**22 J**	**19**	**67**	**3.8**	**64**
1,3-Dichlorobenzene	3	1.0 UJ	**1.1**	**1.3**	**0.91 J**	1.0 UJ	**1.0**
1,4-Dichlorobenzene	3	1.0 UJ	**20**	**17**	**15**	**4.5 J**	**15**
Benzene	1	1.0 U	**0.43 J**	**1.4**	**1.6**	**0.90 J**	**1.6**
Chlorobenzene	5	1.0 UJ	**200**	**320**	**270**	**33**	**270**
Cis-1,2-Dichloroethylene	5	1.0 U	**1.6**	**0.76 J**	**3.9**	**12**	**3.8**
Ethylbenzene	5	1.0 UJ	**0.28 J**	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5	1.0 U	**0.58 J**	**1.4**	1.0 U	1.0 U	1.0 U
Methylcyclohexane	NA	1.0 U	**0.55 J**	1.0 U	1.0 U	1.0 U	1.0 U
N-Butylbenzene	5	1.0 U	**0.33 J**	1.0 U	1.0 U	1.0 U	1.0 U
N-Propylbenzene	5	1.0 U	**0.70 J**	1.0 U	1.0 U	1.0 U	1.0 U
Sec-Butylbenzene	5	1.0 U	**0.75 J**	**1.1**	1.0 U	1.0 U	1.0 U
T-Butylbenzene	5	1.0 U	1.0 U	**0.42 J**	1.0 U	1.0 U	1.0 U
Tetrachloroethylene	5	1.0 U	1.0 U	1.0 U	**4.0**	1.0 U	**3.8**
Trichloroethylene	5	1.0 U	1.0 U	1.0 U	**20**	1.0 U	**19**
Vinyl Chloride	2	2.0 U	1.0 U	**1.6 J**	**1.2 J**	**2.9**	**1.3 J**
TOTAL VOCs	NA	**ND**	**250 J**	**360 J**	**380 J**	**60 J**	**380 J**

Notes:
1. Shaded cells exceed the screening value.
2. Bold values denote positive hits.
1 New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 1998, Class GA Groundwater Standards and Guidance Values.

Key:

	=	Guidance value.	µg/L	=	Micrograms per liter.
--	=	Analyte not analyzed for.	mg/L	=	Milligrams per liter.
/D	=	Designates field duplicate sample.	NA	=	Not applicable.
J	=	Estimated value.	U	=	Not detected.
VOCs=		Volatile organic compounds.	UJ	=	Not detected/Estimated Value.

Table 3-1b AOC 9 September 2012 Performance Monitoring
Summary of Positive Results for Groundwater Samples
Former Griffiss Air Force Base, Rome, New York

Analyte	Screening Criteria [1]	Sample ID: AOC9-MW06PM092512 Date: 09/25/12	AOC9-MW14PM092612 09/26/12	AOC9-MW15PM092612 09/26/12	AOC9-MW17PM092612 09/26/12	AOC9-MW19PM092612 09/26/12	AOC9-MW19/DPM092612 09/26/12
VOCs by Method SW8260B							
1,2-Dichlorobenzene	3	1.0 U	**24**	**31**	**91**	**5.4**	**6.8**
1,3-Dichlorobenzene	3	1.0 U	**1.3**	**1.8**	**1.7**	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	**21**	**19**	**22**	**4.4**	**5.3**
Benzene	1	1.0 U	**0.94 J**	**2.8**	**1.6**	1.0 U	**0.28 J**
Chlorobenzene	5	1.0 U	**190**	**290**	**300**	**31**	**38**
Cis-1,2-Dichloroethylene	5	1.0 U	**2.4**	**0.65 J**	**5.2**	**1.4**	**1.8**
Cyclohexane	NA	1.0 U	**0.55 J**	**0.67 J**	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	**0.37 J**	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ
Isopropylbenzene	5	1.0 U	**0.93 J**	**2.0 J**	1.0 U	1.0 UJ	1.0 UJ
Methylcyclohexane	NA	1.0 U	**1.3**	1.0 U	1.0 U	1.0 U	1.0 U
N-Butylbenzene	5	1.0 U	**0.46 J**	**0.23 J**	1.0 U	1.0 U	1.0 U
N-Propylbenzene	5	1.0 U	**1.0**	1.0 U	1.0 U	1.0 U	1.0 U
Sec-Butylbenzene	5	1.0 U	**1.0**	**1.5**	1.0 U	1.0 U	1.0 U
T-Butylbenzene	5	1.0 U	**0.32 J**	**0.53 J**	1.0 U	1.0 U	1.0 U
Tetrachloroethylene	5	1.0 U	1.0 U	1.0 U	**2.2**	1.0 U	1.0 U
Trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	**0.62 J**	1.0 U	1.0 U
Trichloroethylene	5	**1.4**	**1.2**	**0.34 J**	**19**	**0.30 J**	**0.35 J**
Vinyl Chloride	2	2.0 U	**0.83 J**	**2.5**	**2.5 J**	2.0 U	2.0 U
TOTAL VOCs	NA	**1.4**	**248 J**	**352 J**	**446 J**	**43 J**	**53 J**

Notes:
1. Shaded cells exceed the screening value.
2. Bold values denote positive hits.
1 New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 1998, Class GA Groundwater Standards and Guidance Values.

Key:

= Guidance value.
-- = Analyte not analyzed for.
/D = Designates field duplicate sample.
J = Estimated value.
µg/L = Micrograms per liter.
mg/L = Milligrams per liter.
U = Not detected.
UJ = Not detected/Estimated Value.
VOCs = Volatile organic compounds.

Table 3-2a AOC 9 April 2012 Performance Monitoring
Summary of Positive Results for Surface Water Samples
Former Griffiss Air Force Base, Rome, New York

Analyte	Sample ID: / Date: / Screening Criteria [1]	AOC9-SW01PM04162012 04/16/12	AOC9-SW02PM04162012 04/16/12	AOC9-SW03PM04162012 04/16/12
VOCs by Method SW8260B (µg/L)				
Acetone	NA	**2.5 J**	**3.2 J**	**2.9 J**
TOTAL VOCs	NA	**2.5 J**	**3.2 J**	**2.9 J**

Notes:
1. Shaded cells exceed the screening value.
2. Bold values denote positive hits.
1 New York State Department of Environmental Conservation, Class C Freshwater Fish Propagation Standards and Guidance Values.

Key:
-- = Analyte not analyzed for.
/D = Designates field duplicate sample.
(g) = Guidance value (no applicable standard).
J = Estimated value.
µg/L = Micrograms per liter.
mg/L = Milligrams per liter.
NA = Not applicable.
U = Not detected (lab reporting limit shown).
UJ = Not detected/Estimated Value.
VOCs = Volatile organic compounds.

Table 3-2b AOC 9 September 2012 Performance Monitoring
Summary of Positive Results for Surface Water Samples
Former Griffiss Air Force Base, Rome, NY

Analyte	Sample ID: Date: / Screening Criteria [1]	AOC9-SW01PM04162012 09/25/12	AOC9-SW02PM04162012 09/25/12	AOC9-SW03PM04162012 09/25/12
VOCs by Method SW8260B (µg/L)				
Acetone	NA	5.0 U	**2.4 J**	5.0 U
TOTAL VOCs	NA	**ND**	**2.4 J**	**ND**

Notes:
1. Shaded cells exceed the screening value.
2. Bold values denote positive hits.
1 New York State Department of Environmental Conservation, Class C Freshwater Fish Propagation Standards and Guidance Values.

Key:
-- = Analyte not analyzed for.
/D = Designates field duplicate sample.
(g) = Guidance value (no applicable standard).
J = Estimated value.
µg/L = Micrograms per liter.
mg/L = Milligrams per liter.
NA = Not applicable.
U = Not detected (lab reporting limit shown).
UJ = Not detected/Estimated Value.
VOCs = Volatile organic compounds.

Table 3-3 AOC 9 Historic Groundwater Sample Results

Well Number	Screening Criteria [1]	Parameter	Analytical Results by Sample Date(s) (µg/L)								
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12
			Ref 1	Ref 2	Ref 3	Ref 4	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4
G009-MW01	5	1,1-Dichloroethene	U	U	U	-	U	-	-	-	-
	3	1,2-Dichlorobenzene	U	**0.36**	**0.6**	-	**0.80 J**	-	-	-	-
	0.6	1,2-Dichloroethane	U	U	U	-	U	-	-	-	-
	5	1,2,4-Trimethylbenzene	NA	U	U	-	U	-	-	-	-
	5	1,3,5-Trimethylbenzene	NA	U	U	-	U	-	-	-	-
	3	1,3-Dichlorobenzene	NA	U	U	-	U	-	-	-	-
	3	1,4-Dichlorobenzene	U	U	U	-	U	-	-	-	-
	5	4-Chlorotoluene	NA	U	U	-	NA	-	-	-	-
	1	Benzene	U	U	U	-	U	-	-	-	-
	5	Chlorobenzene	U	U	U	-	U	-	-	-	-
	5	cis-1,2-Dichloroethylene	U	U	**0.123**	-	U	-	-	-	-
	NA	Cyclohexane	NA	NA	NA	-	U	-	-	-	-
	5	Ethylbenzene	U	U	U	-	U	-	-	-	-
	5	Isopropylbenzene (Cumene)	NA	U	U	-	U	-	-	-	-
	NA	Methylcyclohexane	NA	NA	NA	-	U	-	-	-	-
	5	Methylene Chloride	U	U	U	-	U	-	-	-	-
	NA	m-p-Xylene	NA	U	U	-	U	-	-	-	-
	10	Naphthalene	NA	U	U	-	U	-	-	-	-
	5	n-Butylbenzene	NA	U	U	-	U	-	-	-	-
	5	n-Propylbenzene	NA	U	U	-	U	-	-	-	-
	5	o-Xylene (1,2-Dimethylbenzene)	NA	U	U	-	U	-	-	-	-
	5	p-Isopropyltoluene	NA	NA	NA	-	U	-	-	-	-
	5	sec-Butylbenzene	NA	U	U	-	U	-	-	-	-
	5	Styrene	U	U	U	-	U	-	-	-	-
	5	t-Butylbenzene	NA	U	U	-	U	-	-	-	-
	5	Tetrachloroethylene (PCE)	U	U	U	-	U	-	-	-	-
	5	Toluene	U	U	U	-	U	-	-	-	-
	5	Trans-1,2-Dichloroethene	NA	U	U	-	U	-	-	-	-
	5	Trichloroethylene (TCE)	U	**0.87**	**0.88**	-	**0.60 J**	-	-	-	-
	2	Vinyl Chloride	U	U	U	-	U	-	-	-	-
	NA	Total VOCs	0	**1.2**	**1.6**	-	**1.4**	-	-	-	-

Key and References at the end of Table.

Table 3-3 AOC 9 Historic Groundwater Sample Results

Well Number	Screening Criteria [1]	Parameter	Analytical Results by Sample Date(s) (µg/L)								
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12
			Ref 1	Ref 2	Ref 3	Ref 4	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4
G009-MW02	5	1,1-Dichloroethene	U	U	U	U	U	-	-	-	-
	3	1,2-Dichlorobenzene	U	U	U	U	U	-	-	-	-
	0.6	1,2-Dichloroethane	U	U	U	U	U	-	-	-	-
	5	1,2,4-Trimethylbenzene	NA	U	U	U	U	-	-	-	-
	5	1,3,5-Trimethylbenzene	NA	U	U	U	U	-	-	-	-
	3	1,3-Dichlorobenzene	NA	U	U	U	U	-	-	-	-
	3	1,4-Dichlorobenzene	U	U	U	U	U	-	-	-	-
	5	4-Chlorotoluene	NA	U	U	U	NA	-	-	-	-
	1	Benzene	U	U	U	U	U	-	-	-	-
	5	Chlorobenzene	U	U	U	U	U	-	-	-	-
	5	cis-1,2-Dichloroethylene	U	U	U	U	U	-	-	-	-
	NA	Cyclohexane	NA	NA	NA	NA	U	-	-	-	-
	5	Ethylbenzene	U	U	U	U	U	-	-	-	-
	5	Isopropylbenzene (Cumene)	NA	U	U	U	U	-	-	-	-
	NA	Methylcyclohexane	NA	NA	NA	NA	U	-	-	-	-
	5	Methylene Chloride	U	U	U	U	U	-	-	-	-
	NA	m-p-Xylene	NA	U	U	U	U	-	-	-	-
	10	Naphthalene	NA	U	U	U	U	-	-	-	-
	5	n-Butylbenzene	NA	U	U	U	U	-	-	-	-
	5	n-Propylbenzene	NA	U	U	U	U	-	-	-	-
	5	o-Xylene (1,2-Dimethylbenzene)	NA	U	U	U	U	-	-	-	-
	5	p-Isopropyltoluene	NA	NA	NA	U	U	-	-	-	-
	5	sec-Butylbenzene	NA	U	U	U	U	-	-	-	-
	5	Styrene	U	U	U	U	U	-	-	-	-
	5	t-Butylbenzene	NA	U	U	U	U	-	-	-	-
	5	Tetrachloroethylene (PCE)	U	U	U	U	U	-	-	-	-
	5	Toluene	U	U	U	U	U	-	-	-	-
	5	Trans-1,2-Dichloroethene	NA	U	U	U	U	-	-	-	-
	5	Trichloroethylene (TCE)	U	**0.89**	**1.8**	**0.61 J**	**0.70 J**	-	-	-	-
	2	Vinyl Chloride	U	U	U	U	U	-	-	-	-
	NA	Total VOCs	0	**0.89**	**1.8**	**0.61**	**0.70**	-	-	-	-

Key and References at the end of Table.

Table 3-3 AOC 9 Historic Groundwater Sample Results

Well Number	Screening Criteria [1]	Parameter	Analytical Results by Sample Date(s) (µg/L)								
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12
			Ref 1	Ref 2	Ref 3	Ref 4	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4
AOC9-MW05	5	1,1-Dichloroethene	-	U	U	U	U	-	-	-	-
	3	1,2-Dichlorobenzene	-	U	U	U	U	-	-	-	-
	0.6	1,2-Dichloroethane	-	U	U	U	U	-	-	-	-
	5	1,2,4-Trimethylbenzene	-	U	U	U	U	-	-	-	-
	5	1,3,5-Trimethylbenzene	-	U	U	U	U	-	-	-	-
	3	1,3-Dichlorobenzene	-	U	U	U	U	-	-	-	-
	3	1,4-Dichlorobenzene	-	U	U	U	U	-	-	-	-
	5	4-Chlorotoluene	-	U	U	U	NA	-	-	-	-
	1	Benzene	-	U	U	U	U	-	-	-	-
	5	Chlorobenzene	-	U	U	U	U	-	-	-	-
	5	cis-1,2-Dichloroethylene	-	U	U	U	U	-	-	-	-
	NA	Cyclohexane	-	NA	NA	NA	U	-	-	-	-
	5	Ethylbenzene	-	U	U	U	U	-	-	-	-
	5	Isopropylbenzene (Cumene)	-	U	U	U	U	-	-	-	-
	NA	Methylcyclohexane	-	NA	NA	NA	U	-	-	-	-
	5	Methylene Chloride	-	U	U	U	U	-	-	-	-
	NA	m-p-Xylene	-	U	U	U	U	-	-	-	-
	10	Naphthalene	-	U	U	U	U	-	-	-	-
	5	n-Butylbenzene	-	U	U	U	U	-	-	-	-
	5	n-Propylbenzene	-	U	U	U	U	-	-	-	-
	5	o-Xylene (1,2-Dimethylbenzene)	-	U	U	U	U	-	-	-	-
	5	p-Isopropyltoluene	-	NA	NA	U	U	-	-	-	-
	5	sec-Butylbenzene	-	U	U	U	U	-	-	-	-
	5	Styrene	-	U	U	U	U	-	-	-	-
	5	t-Butylbenzene	-	U	U	U	U	-	-	-	-
	5	Tetrachloroethylene (PCE)	-	U	U	U	U	-	-	-	-
	5	Toluene	-	U	U	U	U	-	-	-	-
	5	Trans-1,2-Dichloroethene	-	U	U	U	U	-	-	-	-
	5	Trichloroethylene (TCE)	-	U	U	U	U	-	-	-	-
	2	Vinyl Chloride	-	U	U	U	U	-	-	-	-
	NA	Total VOCs	-	0	0	0	0	-	-	-	-

Key and References at the end of Table.

Table 3-3 AOC 9 Historic Groundwater Sample Results

Well Number	Screening Criteria [1]	Parameter	Analytical Results by Sample Date(s) (µg/L)								
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12
			Ref 1	Ref 2	Ref 3	Ref 4	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4
AOC9-MW06	5	1,1-Dichloroethene	-	U	U	-	U	U	U	U	U
	3	1,2-Dichlorobenzene	-	U	U	-	U	U	U	U	U
	0.6	1,2-Dichloroethane	-	U	U	-	U	U	U	U	U
	5	1,2,4-Trimethylbenzene		U	U	-	U	U	U	U	U
	5	1,3,5-Trimethylbenzene	-	U	U	-	U	U	U	U	U
	3	1,3-Dichlorobenzene	-	U	U	-	U	U	U	U	U
	3	1,4-Dichlorobenzene	-	U	U	-	U	U	U	U	U
	5	4-Chlorotoluene	-	U	U	-	NA	U	U	U	U
	1	Benzene	-	U	U	-	U	U	U	U	U
	5	Chlorobenzene	-	U	U	-	U	1.0 UJ	**0.90 J**	U	U
	5	cis-1,2-Dichloroethylene	-	U	U	-	U	U	U	U	U
	NA	Cyclohexane	-	NA	NA	-	U	U	U	U	U
	5	Ethylbenzene	-	U	U	-	U	U	U	U	U
	5	Isopropylbenzene (Cumene)	-	U	U	-	U	U	U	U	U
	NA	Methylcyclohexane	-	NA	NA	-	U	U	U	U	U
	5	Methylene Chloride	-	U	U	-	U	U	U	U	U
	NA	m-p-Xylene	-	U	U	-	U	U	U	U	U
	10	Naphthalene	-	U	U	-	U	U	**3.0**	U	U
	5	n-Butylbenzene	-	U	U	-	U	U	U	U	U
	5	n-Propylbenzene	-	U	U	-	U	U	**2.0**	U	U
	5	o-Xylene (1,2-Dimethylbenzene)	-	U	U	-	U	U	U	U	U
	5	p-Isopropyltoluene	-	NA	NA	-	U	U	U	U	U
	5	sec-Butylbenzene	-	U	U	-	U	U	U	U	U
	5	Styrene	-	U	U	-	U	U	U	U	U
	5	t-Butylbenzene	-	U	U	-	U	U	U	U	U
	5	Tetrachloroethylene (PCE)	-	U	U	-	U	U	U	U	U
	5	Toluene	-	U	U	-	U	U	U	U	U
	5	Trans-1,2-Dichloroethene	-	U	U	-	U	U	U	U	U
	5	Trichloroethylene (TCE)	-	**0.85**	**1.8**	-	**1.0**	**1.0**	**1.0**	U	**1.4**
	2	Vinyl Chloride	-	U	U	-	U	U	U	U	U
	NA	Total VOCs	-	**0.85**	**1.8**	-	**1.0**	**1.0**	**6.9**	0	**1.4**

Key and References at the end of Table.

Table 3-3 AOC 9 Historic Groundwater Sample Results

Well Number	Screening Criteria [1]	Parameter	Analytical Results by Sample Date(s) (µg/L)								
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12
			Ref 1	Ref 2	Ref 3	Ref 4	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4
AOC9-MW14	5	1,1-Dichloroethene	-	-	-	U	**0.70 J**	U	U	U	U
	3	1,2-Dichlorobenzene	-	-	-	**170**	**130**	**76**	**40**	**22 J**	**24**
	0.6	1,2-Dichloroethane	-	-	-	U	U	U	U	U	U
	5	1,2,4-Trimethylbenzene	-	-	-	**220**	**180**	**15**	**1.0**	U	U
	5	1,3,5-Trimethylbenzene	-	-	-	**79**	**64**	U	U	U	U
	3	1,3-Dichlorobenzene	-	-	-	**7.6**	**6.0**	**4.0**	**2.0**	**1.1**	**1.3**
	3	1,4-Dichlorobenzene	-	-	-	**110**	**87**	**53**	**34**	**20**	**21**
	5	4-Chlorotoluene	-	-	-	**0.33 J**	NA	U	U	U	U
	1	Benzene	-	-	-	**3.5**	**19**	**1.0**	**1.0**	**0.43 J**	**0.94 J**
	5	Chlorobenzene	-	-	-	**1700**	**1400**	**950 J**	**350**	**200**	**190**
	5	cis-1,2-Dichloroethylene	-	-	-	**2.7**	**23**	**2.0**	**2.0**	**1.6**	**2.4**
	NA	Cyclohexane	-	-	-	NA	**22**	**12**	**1.0**	U	**0.55 J**
	5	Ethylbenzene	-	-	-	**21**	**10**	**7.0**	**1.0**	**0.28 J**	**0.37 J**
	5	Isopropylbenzene (Cumene)	-	-	-	**17**	**14**	**11**	**3.0**	**0.58 J**	**0.93 J**
	NA	Methylcyclohexane	-	-	-	NA	**46 J**	**17**	**2.0**	**0.55 J**	**1.3**
	5	Methylene Chloride	-	-	-	U	NA	U	U	U	U
	NA	m-p-Xylene	-	-	-	**68**	**50**	**11**	**0.70 J**	U	U
	10	Naphthalene	-	-	-	**51**	**27**	**4.0**	U	U	U
	5	n-Butylbenzene	-	-	-	**4.3**	**4.0**	**2.0**	**2.0 J**	**0.33 J**	**0.46 J**
	5	n-Propylbenzene	-	-	-	**15**	**14**	**8.0**	**3.0**	**0.70 J**	**1.0**
	5	o-Xylene (1,2-Dimethylbenzene)	-	-	-	**5.9**	**5.0**	**0.30 J**	U	U	U
	5	p-Isopropyltoluene	-	-	-	**5.5**	**5.0**	U	U	U	U
	5	sec-Butylbenzene	-	-	-	**8.3**	**7.0**	**4.0**	**3.0**	**0.75 J**	**1.0**
	5	Styrene	-	-	-	U	U	U	U	U	U
	5	t-Butylbenzene	-	-	-	**3.2**	**2.0**	**2.0**	**1.0**	U	**0.32 J**
	5	Tetrachloroethylene (PCE)	-	-	-	U	UJ	U	U	U	U
	5	Toluene	-	-	-	**0.75 J**	**3.0**	U	U	U	U
	5	Trans-1,2-Dichloroethene	-	-	-	U	**2.0**	U	U	U	U
	5	Trichloroethylene (TCE)	-	-	-	**4.8**	**28**	**2.0**	**2.0**	U	**1.2**
	2	Vinyl Chloride	-	-	-	**1.6**	**17**	**1.0 J**	**1.0 J**	U	**0.83 J**
	NA	Total VOCs	-	-	-	**2500**	**2100**	**1200**	**450**	**250**	**250**

Key and References at the end of Table.

Table 3-3 AOC 9 Historic Groundwater Sample Results

Well Number	Screening Criteria [1]	Parameter	Analytical Results by Sample Date(s) (µg/L)								
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12
			Ref 1	Ref 2	Ref 3	Ref 4	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4
AOC9-MW15	5	1,1-Dichloroethene	-	-	-	U	**0.40 J**	U	U	U	U
	3	1,2-Dichlorobenzene	-	-	-	**60 J**	**55**	**74**	**26**	**19**	**31**
	0.6	1,2-Dichloroethane	-	-	-	U	U	U	U	U	U
	5	1,2,4-Trimethylbenzene	-	-	-	**8.0 J**	**35**	**0.90 J**	U	U	U
	5	1,3,5-Trimethylbenzene	-	-	-	**10 J**	**18**	U	U	U	U
	3	1,3-Dichlorobenzene	-	-	-	**8.0 J**	**6.0**	**5.0**	**2.0**	**1.3**	**1.8**
	3	1,4-Dichlorobenzene	-	-	-	**110**	**64**	**58**	**28**	**17**	**19**
	5	4-Chlorotoluene	-	-	-	U	NA	U	U	U	U
	1	Benzene	-	-	-	**12 J**	**26**	**1.0**	**2.0**	**1.4**	**2.8**
	5	Chlorobenzene	-	-	-	**1900**	**1300**	**990 J**	**390**	**320**	**290**
	5	cis-1,2-Dichloroethylene	-	-	-	U	**10**	**2.0**	**0.40 J**	**0.80**	**0.65 J**
	NA	Cyclohexane	-	-	-	NA	**50**	**2.0**	**0.60 J**	U	**0.67 J**
	5	Ethylbenzene	-	-	-	U	**12**	**3.0**	**0.70 J**	U	UJ
	5	Isopropylbenzene (Cumene)	-	-	-	**12 J**	**22**	**7.0**	**2.0**	**1.4**	**2.0 J**
	NA	Methylcyclohexane	-	-	-	NA	**40 J**	**6.0**	**0.60 J**	U	U
	5	Methylene Chloride	-	-	-	**87**	U	U	U	U	U
	NA	m-p-Xylene	-	-	-	U	**11**	**0.70 J**	U	U	U
	10	Naphthalene	-	-	-	U	U	**0.40 J**	U	U	U
	5	n-Butylbenzene	-	-	-	U	**3.0**	**2.0**	**0.50 J**	U	**0.23 J**
	5	n-Propylbenzene	-	-	-	U	**8.0**	**5.0**	U	U	U
	5	o-Xylene (1,2-Dimethylbenzene)	-	-	-	U	**2.0**	U	U	U	U
	5	p-isopropyltoluene	-	-	-	U	**0.70 J**	U	U	U	U
	5	sec-Butylbenzene	-	-	-	U	**7.0**	**6.0**	**2.0**	**1.1**	**1.5**
	5	Styrene	-	-	-	U	**2.0**	U	U	U	U
	5	t-Butylbenzene	-	-	-	U	**3.0**	**1.0**	**1.0**	**0.42 J**	**0.53 J**
	5	Tetrachloroethylene (PCE)	-	-	-	U	UJ	U	U	U	U
	5	Toluene	-	-	-	U	**2.0**	**0.30 J**	U	U	U
	5	Trans-1,2-Dichloroethene	-	-	-	U	**0.30 J**	U	U	U	U
	5	Trichloroethylene (TCE)	-	-	-	U	**2.0**	**2.0**	**0.40 J**	U	**0.34 J**
	2	Vinyl Chloride	-	-	-	U	**14**	**0.50 J**	**0.70 J**	**1.6 J**	**2.5**
	NA	Total VOCs	-	-	-	**2200**	**1700**	**1100**	**460**	**360**	**350**

Key and References at the end of Table.

Table 3-3 AOC 9 Historic Groundwater Sample Results

Well Number	Screening Criteria [1]	Parameter	Analytical Results by Sample Date(s) (µg/L)								
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12
			Ref 1	Ref 2	Ref 3	Ref 4	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4
AOC9-MW17	5	1,1-Dichloroethene	-	-	-	U	U	U	U	U	U
	3	1,2-Dichlorobenzene	-	-	-	**66**	**50**	**44**	**69**	**67**	**91**
	0.6	1,2-Dichloroethane	-	-	-	**0.68**	**0.40 J**	U	**0.40 J**	U	U
	5	1,2,4-Trimethylbenzene	-	-	-	U	U	U	U	U	U
	5	1,3,5-Trimethylbenzene	-	-	-	U	U	U	U	U	U
	3	1,3-Dichlorobenzene	-	-	-	**1.5**	**3.0**	**2.0**	**2.0**	**0.91 J**	**1.7**
	3	1,4-Dichlorobenzene	-	-	-	**17**	**38**	**24**	**26**	**15**	**22**
	5	4-Chlorotoluene	-	-	-	U	NA	U	U	U	U
	1	Benzene	-	-	-	**2.6**	**4.0**	**5.0**	**6.0 J**	**1.6**	**1.6**
	5	Chlorobenzene	-	-	-	**250**	**760**	**450 J**	**540**	**270**	**300**
	5	cis-1,2-Dichloroethylene	-	-	-	**12**	**5.0**	**5.0**	**4.0**	**3.9**	**5.2**
	NA	Cyclohexane	-	-	-	NA	**2.0**	**3.0**	**0.70 J**	U	U
	5	Ethylbenzene	-	-	-	U	**0.80 J**	**0.40 J**	**1.0 J**	U	U
	5	Isopropylbenzene (Cumene)	-	-	-	**0.25 J**	**2.0**	**2.0 J**	**2.0 J**	U	U
	NA	Methylcyclohexane	-	-	-	NA	**0.60 J**	**1.0**	U	U	U
	5	Methylene Chloride	-	-	-	U	U	U	U	U	U
	NA	m-p-Xylene	-	-	-	U	U	U	U	U	U
	10	Naphthalene	-	-	-	U	U	U	**3.0**	U	U
	5	n-Butylbenzene	-	-	-	U	U	U	U	U	U
	5	n-Propylbenzene	-	-	-	U	U	U	**2.0**	U	U
	5	o-Xylene (1,2-Dimethylbenzene)	-	-	-	U	U	U	U	U	U
	5	p-Isopropyltoluene	-	-	-	U	U	U	U	U	U
	5	sec-Butylbenzene	-	-	-	**0.33 J**	**1.0 J**	**0.80 J**	**0.60 J**	U	U
	5	Styrene	-	-	-	U	U	U	U	U	U
	5	t-Butylbenzene	-	-	-	**0.26 J**	**0.60 J**	**0.50 J**	U	U	U
	5	Tetrachloroethylene (PCE)	-	-	-	**3.0**	**2.0 J**	**0.90 J**	**2.0**	**4**	**2.2**
	5	Toluene	-	-	-	**0.39 J**	U	U	U	U	U
	5	Trans-1,2-Dichloroethene	-	-	-	U	**0.90 J**	**1.0**	U	U	**0.62 J**
	5	Trichloroethylene (TCE)	-	-	-	**19**	**14**	**12**	**14**	**20**	**19**
	2	Vinyl Chloride	-	-	-	**0.92 J**	**4.0**	**4.0**	**3.0**	**1.2 J**	**2.5 J**
	NA	Total VOCs	-	-	-	**370**	**890**	**560**	**680**	**380**	**450**

Key and References at the end of Table.

Table 3-3 AOC 9 Historic Groundwater Sample Results

Well Number	Screening Criteria [1]	Parameter	Analytical Results by Sample Date(s) (µg/L)								
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12
			Ref 1	Ref 2	Ref 3	Ref 4	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4
AOC9-MW18	5	1,1-Dichloroethene	-	-	-	-	U	-	-	-	-
	3	1,2-Dichlorobenzene	-	-	-	-	**0.20 J**	-	-	-	-
	0.6	1,2-Dichloroethane	-	-	-	-	U	-	-	-	-
	5	1,2,4-Trimethylbenzene	-	-	-	-	U	-	-	-	-
	5	1,3,5-Trimethylbenzene	-	-	-	-	U	-	-	-	-
	3	1,3-Dichlorobenzene	-	-	-	-	U	-	-	-	-
	3	1,4-Dichlorobenzene	-	-	-	-	U	-	-	-	-
	5	4-Chlorotoluene	-	-	-	-	NA	-	-	-	-
	1	Benzene	-	-	-	-	U	-	-	-	-
	5	Chlorobenzene	-	-	-	-	**3.0**	-	-	-	-
	5	cis-1,2-Dichloroethylene	-	-	-	-	U	-	-	-	-
	NA	Cyclohexane	-	-	-	-	U	-	-	-	-
	5	Ethylbenzene	-	-	-	-	U	-	-	-	-
	5	Isopropylbenzene (Cumene)	-	-	-	-	U	-	-	-	-
	NA	Methylcyclohexane	-	-	-	-	UJ	-	-	-	-
	5	Methylene Chloride	-	-	-	-	U	-	-	-	-
	NA	m-p-Xylene	-	-	-	-	U	-	-	-	-
	10	Naphthalene	-	-	-	-	U	-	-	-	-
	5	n-Butylbenzene	-	-	-	-	U	-	-	-	-
	5	n-Propylbenzene	-	-	-	-	U	-	-	-	-
	5	o-Xylene (1,2-Dimethylbenzene)	-	-	-	-	U	-	-	-	-
	5	p-Isopropyltoluene	-	-	-	-	U	-	-	-	-
	5	sec-Butylbenzene	-	-	-	-	U	-	-	-	-
	5	Styrene	-	-	-	-	U	-	-	-	-
	5	t-Butylbenzene	-	-	-	-	U	-	-	-	-
	5	Tetrachloroethylene (PCE)	-	-	-	-	UJ	-	-	-	-
	5	Toluene	-	-	-	-	U	-	-	-	-
	5	Trans-1,2-Dichloroethene	-	-	-	-	U	-	-	-	-
	5	Trichloroethylene (TCE)	-	-	-	-	U	-	-	-	-
	2	Vinyl Chloride	-	-	-	-	U	-	-	-	-
	NA	Total VOCs	-	-	-	-	**3.2**	-	-	-	-

Key and References at the end of Table.

Table 3-3 AOC 9 Historic Groundwater Sample Results

Well Number	Screening Criteria [1]	Parameter	Analytical Results by Sample Date(s) (µg/L)								
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12
			Ref 1	Ref 2	Ref 3	Ref 4	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4
AOC9-MW19 [2]	5	1,1-Dichloroethene	-	-	-	-	-	U	U	U	U
	3	1,2-Dichlorobenzene	-	-	-	**4930**	-	**6.0**	**6.0**	**3.8**	**5.4**
	0.6	1,2-Dichloroethane	-	-	-	-	-	U	U	U	U
	5	1,2,4-Trimethylbenzene	-	-	-	**170**	-	U	U	U	U
	5	1,3,5-Trimethylbenzene	-	-	-	**90**	-	U	U	U	U
	3	1,3-Dichlorobenzene	-	-	-	**100**	-	U	U	U	U
	3	1,4-Dichlorobenzene	-	-	-	**1380**	-	**3.0**	**4.0**	**4.5 J**	**4.4**
	5	4-Chlorotoluene	-	-	-	U	-	U	U	U	U
	1	Benzene	-	-	-	**90**	-	U	**0.40 J**	**0.90 J**	U
	5	Chlorobenzene	-	-	-	**14400**	-	**18 J**	**14**	**33**	**31**
	5	cis-1,2-Dichloroethylene	-	-	-	U	-	**3.0**	**15**	**12**	**1.4**
	NA	Cyclohexane	-	-	-	-	-	U	U	U	U
	5	Ethylbenzene	-	-	-	U	-	U	U	U	UJ
	5	Isopropylbenzene (Cumene)	-	-	-	U	-	U	U	U	UJ
	NA	Methylcyclohexane	-	-	-	-	-	U	U	U	U
	5	Methylene Chloride	-	-	-	U	-	U	U	U	U
	NA	m-p-Xylene	-	-	-	**85**	-	U	U	U	U
	10	Naphthalene	-	-	-	**230**	-	U	U	U	U
	5	n-Butylbenzene	-	-	-	U	-	U	U	U	U
	5	n-Propylbenzene	-	-	-	U	-	U	U	U	U
	5	o-Xylene (1,2-Dimethylbenzene)	-	-	-	**75**	-	U	U	U	U
	5	p-Isopropyltoluene	-	-	-	U	-	U	U	U	U
	5	sec-Butylbenzene	-	-	-	U	-	U	U	U	U
	5	Styrene	-	-	-	-	-	U	U	U	U
	5	t-Butylbenzene	-	-	-	U	-	U	U	U	U
	5	Tetrachloroethylene (PCE)	-	-	-	U	-	U	U	U	U
	5	Toluene	-	-	-	**60**	-	U	U	U	U
	5	Trans-1,2-Dichloroethene	-	-	-	U	-	U	U	U	U
	5	Trichloroethylene (TCE)	-	-	-	U	-	**0.50 J**	**0.50 J**	U	**0.30 J**
	2	Vinyl Chloride	-	-	-	U	-	**0.60 J**	**2.0**	**2.9**	**U**
	NA	Total VOCs	-	-	-	**21610**	-	**31**	**42**	**57**	**43**

Table 3-3 AOC 9 Historic Groundwater Sample Results

Well Number	Screening Criteria [1]	Parameter	Analytical Results by Sample Date(s) (µg/L)								
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12
			Ref 1	Ref 2	Ref 3	Ref 4	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4

Key:
J = Estimated concentration.
U = Analyte not detected.
mg/L = Micrograms per liter.
- = Well was not Sampled
NA = Not Applicable.

0.411 J	Bolded values denote positive hits (detections).
14.9	Shaded values denote hits exceeding the NYSDEC standard.

Note:
[1] New York State Department of Environmental Conservation, Class GA Groundwater Standards and Guidance Values.
[2] Data presented under Reference 4 for MW19 is the most recent sampling data for TW39, which was in the same location as MW19. These results are presented for comparison.

References:
(1) E & E. July 1998. Draft Report for Expanded Site Investigation and Confirmatory Sampling of Areas of Interest and Drywell/Wastewater-Related Systems
(2) E & E. August 2001. AOC 9: Weapons Storage Area (WSA) Landfill Supplemental Investigation Final data Summary Report.
(3) FPM Group. February 2005. Groundwater Monitoring Report.
(4) FPM Group. August 2007. Baseline and PDI2 Sampling Final Monitoring Report.

Table 3-4 AOC 9 Historic Surface Water Sample Results

			Analytical Results by Sample Date(s) (µg/L)							
			11/4/97	5/10/00	11/13/06	7/27/10	5/17/11	10/24/11	4/16/12	9/25/12
Surface Water Sample Number	Screening Criteria[1]	Parameter	Ref 1	Ref 2	Ref 3	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4
SW01[2]	5	Chlorobenzene	U	**0.85 J**	U	U	**0.60 J**	U	U	U
	NA	1,2-DCB	NA	U	U	U	U	U	U	U
	NA	1,4-DCB	NA	U	U	U	U	U	U	U
	5	Total DCB	NA	U	U	U	U	U	U	U
	NA	Acetone	U	NA	**1.8 J**	U	U	U	**2.5 J**	U
	NA	cis-1,2-Dichloroethene	U	U	**U**	U	U	**0.40 J**	U	U
	NA	Tetrachloroethene	U	U	**U**	U	U	**1.0 J**	U	U
	NA	Trichloroethene	U	U	**U**	U	U	**0.70 J**	U	U
	NA	Total VOCs	0	**0.85**	**1.8**	0	**0.60 J**	**2.1 J**	**2.5 J**	0
SW02[3]	5	Chlorobenzene	U	**0.84**	**4.0**	**3.0**	**2.0 J**	**9.0**	U	U
	NA	1,2-DCB	NA	**0.41 J**	**0.29 J**	**0.20 J**	U	**0.30 J**	U	U
	NA	1,4-DCB	NA	U	**0.26 J**	U	U	**0.40 J**	U	U
	5	Total DCB	NA	**0.41 J**	**0.55 J**	**0.20 J**	U	**0.70 J**	U	U
	NA	Acetone	U	NA	**1.8 J**	**2.0 J**	U	U	**3.2 J**	**2.4 J**
	NA	Total VOCs	0	**1.3**	**4.5**	**5.2**	**2.0 J**	**9.7 J**	**3.2 J**	**2.4 J**
SW03[4]	5	Chlorobenzene	U	**0.24 J**	**1.2**	**3.0**	**2.0 J**	**2.0**	U	U
	NA	1,2-DCB	NA	U	**0.12 J**	**0.30 J**	**0.20 J**	**0.20 J**	U	U
	NA	1,4-DCB	NA	U	U	**0.30 J**	U	U	U	U
	5	Total DCB	NA	U	**0.12 J**	**0.60 J**	**0.20 J**	**0.20 J**	U	U
	NA	Acetone	U	NA	**1.9 J**	U	U	U	**2.9 J**	U
	NA	Total VOCs	0	**0.24**	**1.3**	**3.6**	**2.2 J**	**2.2 J**	**2.9 J**	0

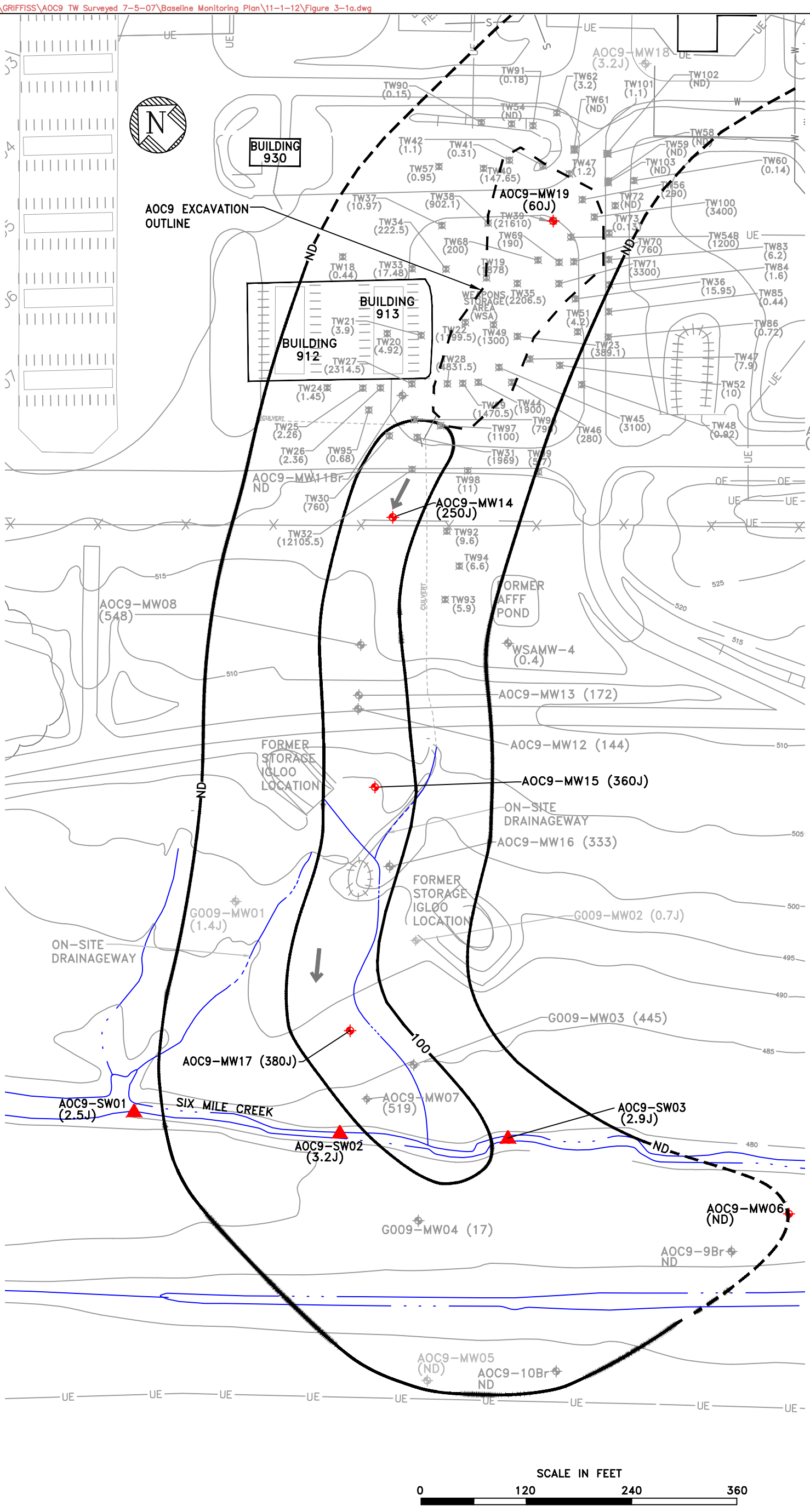
Key:
J = Estimated concentration.
U = Analyte not detected.
mg/L = Micrograms per liter.
NA = Not Applicable.

0.411 J	Bolded values denote positive hits (detections).
14.9	Shaded values denote hits exceeding the NYSDEC standard.

Note:
[1] New York State Department of Environmental Conservation, Class C Freshwater Fish Propagation Standards and Guidance Values.
[2] SW01 is labeled as SW05 in Reference 1; SW01 is labeled as SW09 in Reference 2
[3] SW02 is labeled as SW07 in Reference 1; SW02 is labeled as SW10 in Reference 2
[4] SW03 is labeled as SW06 in Reference 1; SW03 is labeled as SW11 in Reference 2

References:
(1) E & E. July 1998. Draft Report for Expanded Site Investigation and Confirmatory Sampling of Areas of Interest and Drywell/Wastewater-Related Systems
(2) E & E. August 2001. AOC 9: Weapons Storage Area (WSA) Landfill Supplemental Investigation Final data Summary Repor
(3) FPM Group. August 2007. Baseline and PDI2 Sampling Final Monitoring Report

F:\GRIFFISS\AOC9 TW Surveyed 7-5-07\Baseline Monitoring Plan\11-1-12\Figure 3-1a.dwg



SCALE IN FEET

0 120 240 360

LEGEND

525	TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
ND	NOT DETECTED
10000	TOTAL VOC CONTOUR IN ug/L (DASHED WHERE INFERRED)
AOC9-MW14	PERFORMANCE MONITORING WELL SAMPLE LOCATION
AOC9-MW08 (548)	EXISTING WELL WITH HISTORIC TOTAL VOC CONCENTRATION IN GROUNDWATER (ug/L), SEE NOTES BELOW
(31)	APRIL 2012 PERFORMANCE SAMPLING TOTAL VOC CONCENTRATION IN GROUNDWATER AND SURFACE WATER (ug/L)
→	GROUNDWATER FLOW DIRECTION
▲	SURFACE WATER SAMPLING LOCATIONS
TW99 (5.7)	2006 AND 2007 PREDESIGN TEMPORARY MONITORING WELL TOTAL VOC CONCENTRATION IN GROUNDWATER (ug/L)

NOTES:

1. MONITORING WELL AOC9-MW19 IS A NEW WELL INSTALLED IN THE PLUME SOURCE AREA AFTER THE AOC9 GROUNDWATER REMEDY WAS COMPLETED, AND PRIOR TO PERFORMANCE MONITORING. AOC9-MW19 WAS INSTALLED AT THE LOCATION OF TEMPORARY WELL TW-39, WHICH CONTAINED 21,610 ug/L OF TOTAL VOCs IN GROUNDWATER.
2. WHEN DUPLICATE SAMPLES ARE COLLECTED, THE HIGHEST VALUE OBTAINED IS USED ON THIS FIGURE.
3. TOTAL VOC CONCENTRATIONS IN GROUNDWATER FOR:
   - AOC9-MW03, MW04, MW07, MW08 MW12, AND MW16 ARE SAMPLES COLLECTED DURING THE ON-BASE GROUNDWATER BASELINE SAMPLING IN 2006.
   - BEDROCK MONITORING WELLS AOC9-9Br, 10Br, AND 11Br ARE FROM SAMPLES COLLECTED DURING THE BEDROCK GROUNDWATER STUDY IN 2002.
   - MONITORING WELLS AOC9-MW13 AND WSAMW-4 ARE FROM SAMPLES COLLECTED IN 2004 DURING BASEWIDE GROUNDWATER MONITORING.

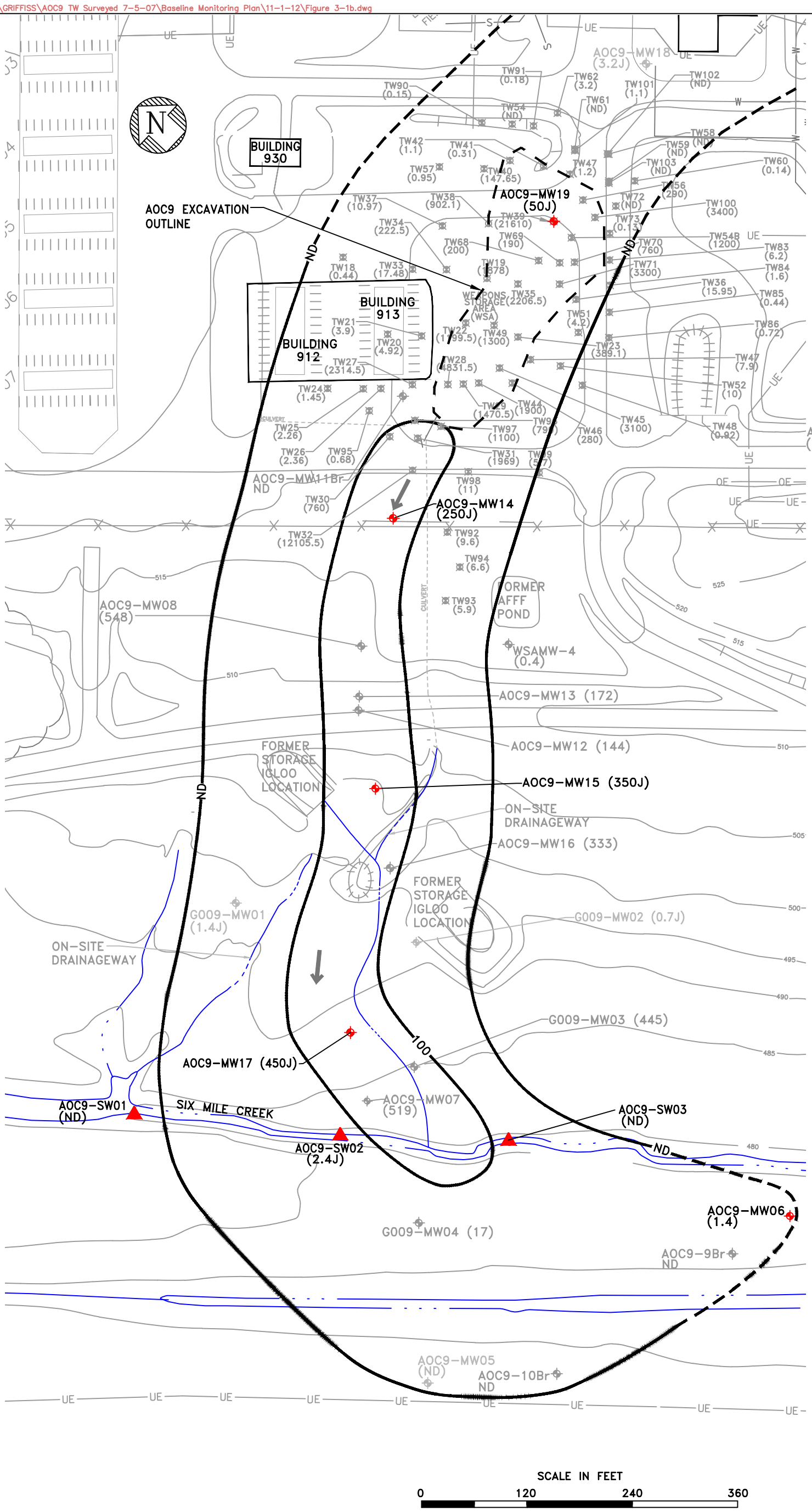
FORMER GRIFFISS AFB
AOC 9 SITE
ROME, NEW YORK

Prepared by:
ecology and environment engineering p.c.
In association with:
parsons

DRAWING TITLE: AOC9
APRIL 2012 PERFORMANCE MONITORING TOTAL VOLATILE ORGANIC COMPOUND CONCENTRATIONS IN GROUNDWATER AND SURFACE WATER

FIGURE 3-1a

F:\GRIFFISS\AOC9 TW Surveyed 7-5-07\Baseline Monitoring Plan\11-1-12\Figure 3-1b.dwg



LEGEND

- 525 — TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
- ND — NOT DETECTED
- 10000 — TOTAL VOC CONTOUR IN ug/L (DASHED WHERE INFERRED)
- AOC9-MW14 — PERFORMANCE MONITORING WELL SAMPLE LOCATION
- AOC9-MW08 (548) — EXISTING WELL WITH HISTORIC TOTAL VOC CONCENTRATION IN GROUNDWATER (ug/L), SEE NOTES BELOW
- (31) — SEPTEMBER 2012 PERFORMANCE SAMPLING TOTAL VOC CONCENTRATION IN GROUNDWATER AND SURFACE WATER (ug/L)
- → GROUNDWATER FLOW DIRECTION
- ▲ SURFACE WATER SAMPLING LOCATIONS
- TW99 (5.7) — 2006 AND 2007 PREDESIGN TEMPORARY MONITORING WELL TOTAL VOC CONCENTRATION IN GROUNDWATER (ug/L)

NOTES:

1. MONITORING WELL AOC9-MW19 IS A NEW WELL INSTALLED IN THE PLUME SOURCE AREA AFTER THE AOC9 GROUNDWATER REMEDY WAS COMPLETED, AND PRIOR TO PERFORMANCE MONITORING. AOC9-MW19 WAS INSTALLED AT THE LOCATION OF TEMPORARY WELL TW-39, WHICH CONTAINED 21,610 ug/L OF TOTAL VOCs IN GROUNDWATER.
2. WHEN DUPLICATE SAMPLES ARE COLLECTED, THE HIGHEST VALUE OBTAINED IS USED ON THIS FIGURE.
3. TOTAL VOC CONCENTRATIONS IN GROUNDWATER FOR:
   - AOC9-MW03, MW04, MW07, MW08 MW12, AND MW16 ARE SAMPLES COLLECTED DURING THE ON-BASE GROUNDWATER BASELINE SAMPLING IN 2006.
   - BEDROCK MONITORING WELLS AOC9-9Br, 10Br, AND 11Br ARE FROM SAMPLES COLLECTED DURING THE BEDROCK GROUNDWATER STUDY IN 2002.
   - MONITORING WELLS AOC9-MW13 AND WSAMW-4 ARE FROM SAMPLES COLLECTED IN 2004 DURING BASEWIDE GROUNDWATER MONITORING.

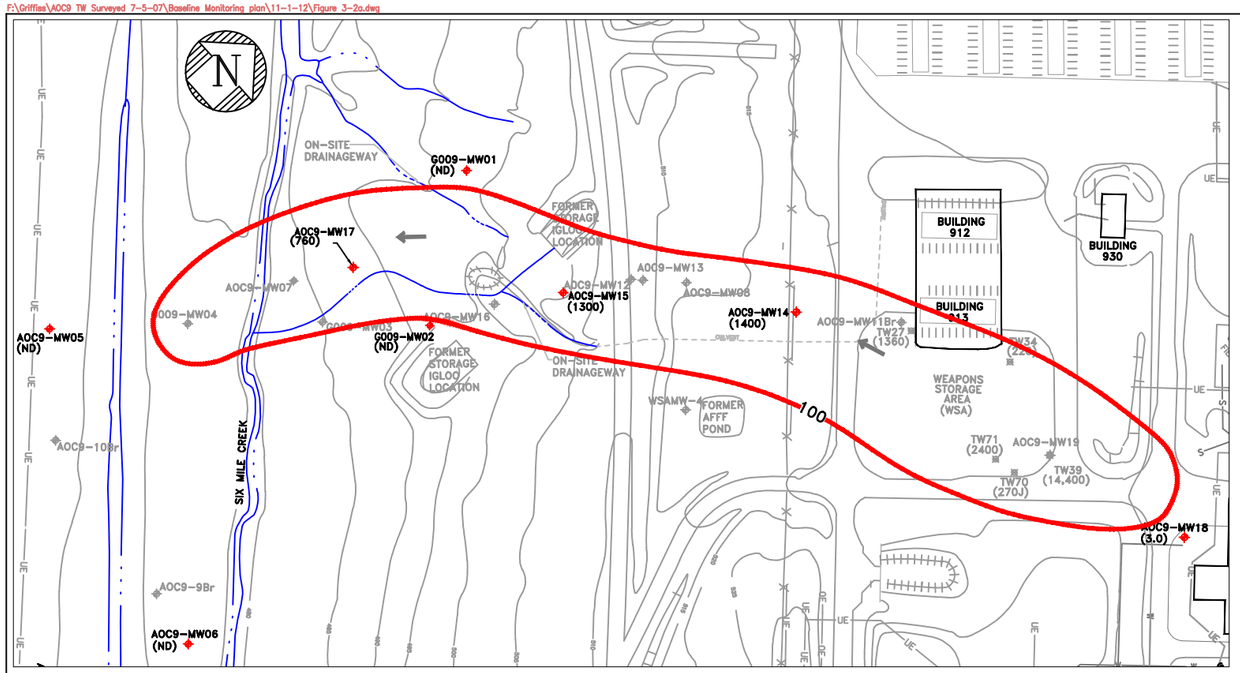
FORMER GRIFFISS AFB
AOC 9 SITE
ROME, NEW YORK

Prepared by:
ecology and environment engineering p.c.
In association with:
parsons

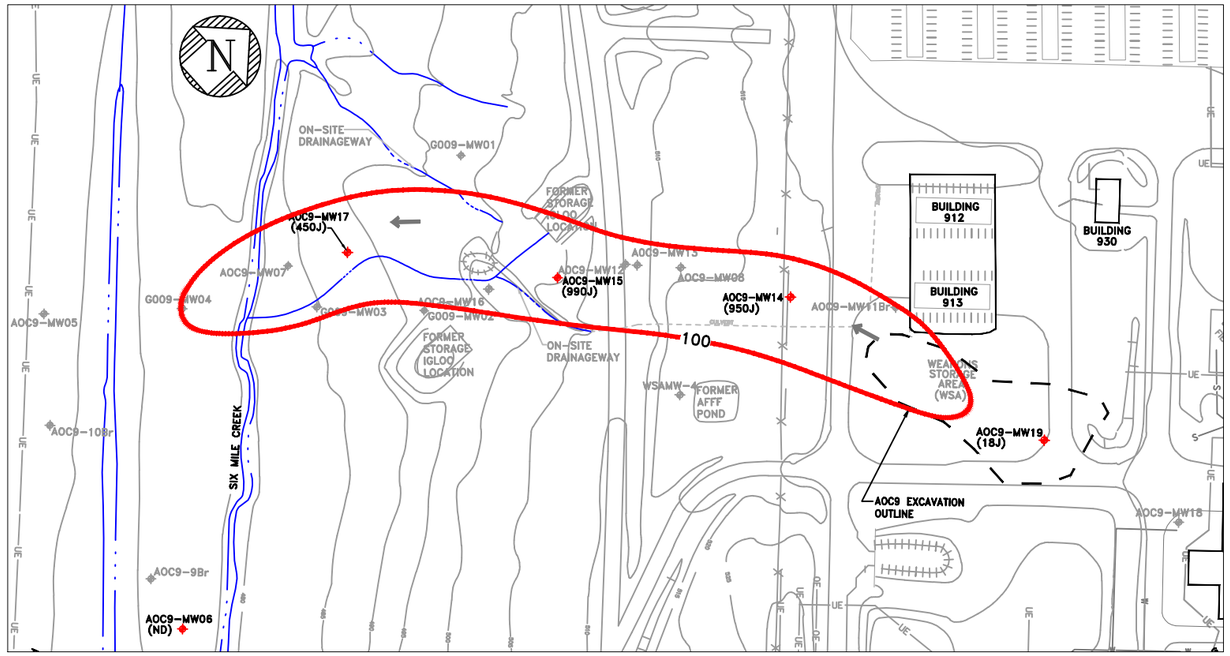
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SEPTEMBER 2012 PERFORMANCE MONITORING TOTAL VOLATILE ORGANIC COMPOUND CONCENTRATIONS IN GROUNDWATER AND SURFACE WATER

FIGURE 3-1b

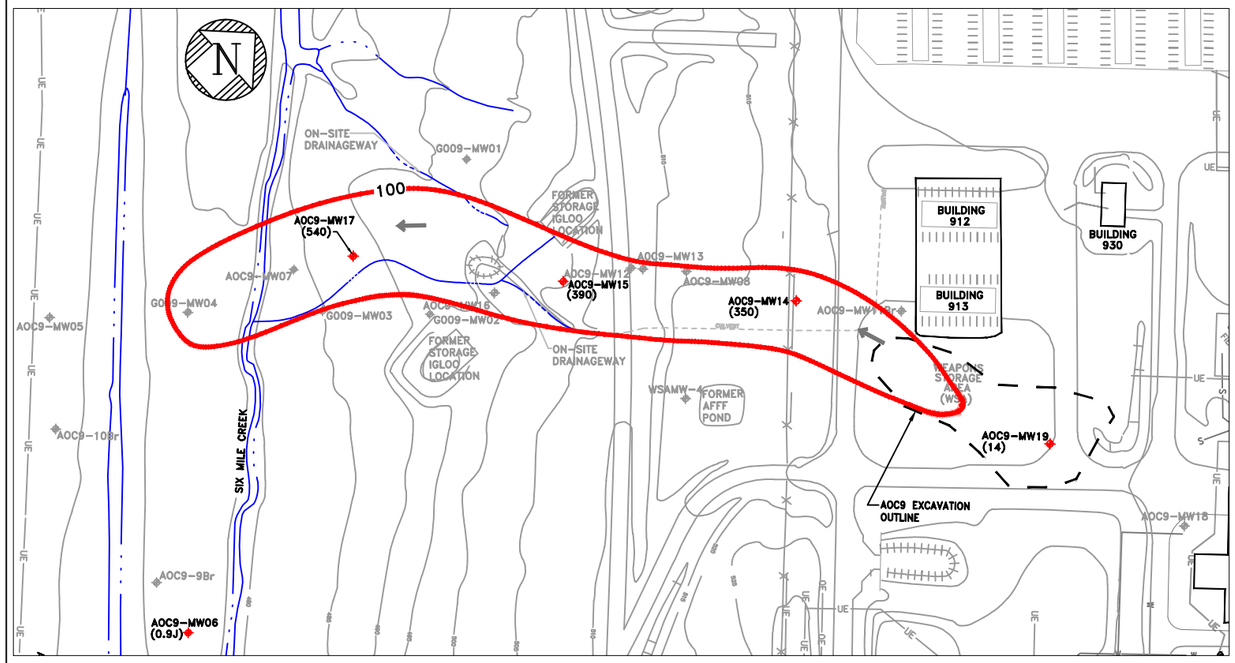
F:\Griffiss\AOC9 TW Surveyed 7-5-07\Baseline Monitoring plan\11-1-12\Figure 3-2a.dwg



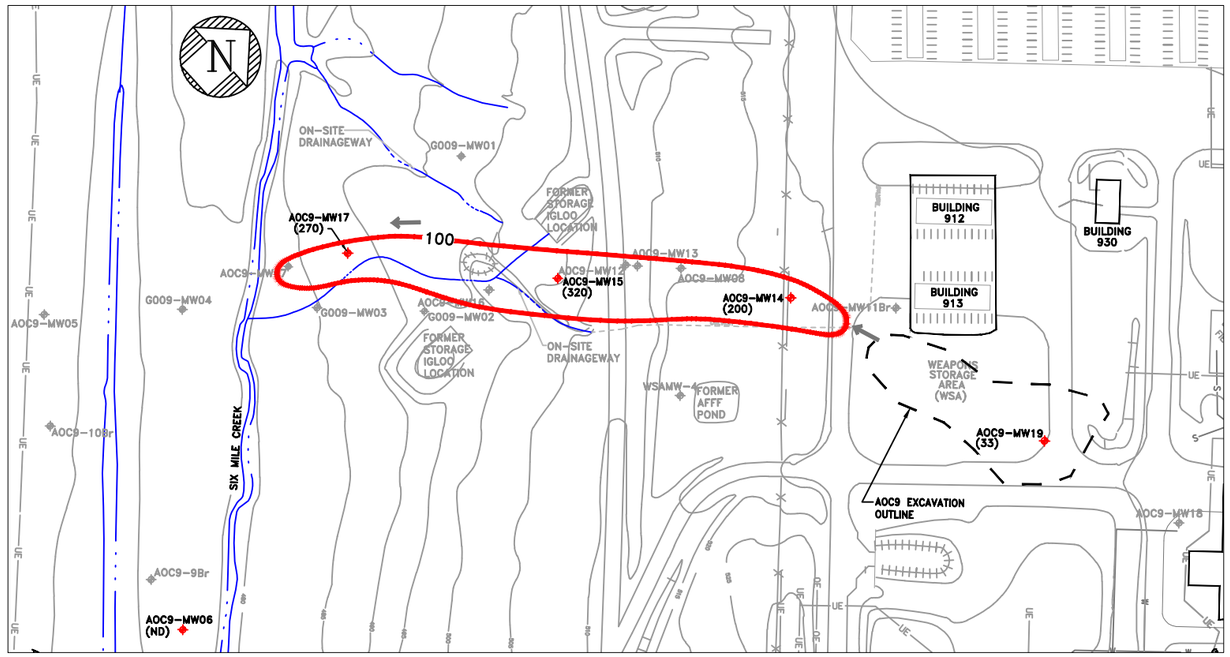
BASELINE SAMPLING JULY 2010



PERFORMANCE MONITORING MAY 2011



PERFORMANCE MONITORING OCTOBER 2011



PERFORMANCE MONITORING APRIL 2012

LEGEND

- AOC9-MW14 — BASELINE MONITORING WELL SAMPLE LOCATION
- EXISTING WELL
- 100 — CHLOROBENZENE PLUME CONTOUR IN PARTS PER BILLION
- 525 — TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
- GROUNDWATER FLOW DIRECTION
- (0.5J) — CHLOROBENZENE IN PARTS PER BILLION
- TW39 — PREDESIGN INVESTIGATION TEMPORARY MONITORING WELL
- (ND) — NOT DETECTED

SCALE IN FEET

0 200 400 600

GRIFFISS AFB OBGW SITES
AOC 9 SITE
ROME, NEW YORK

NOTE: HISTORICAL MONITORING WELL DATA WAS USED TO ESTIMATE CONTOUR LINES WHEN NEW DATA WAS NOT AVAILABLE (SEE FIG 1-2).

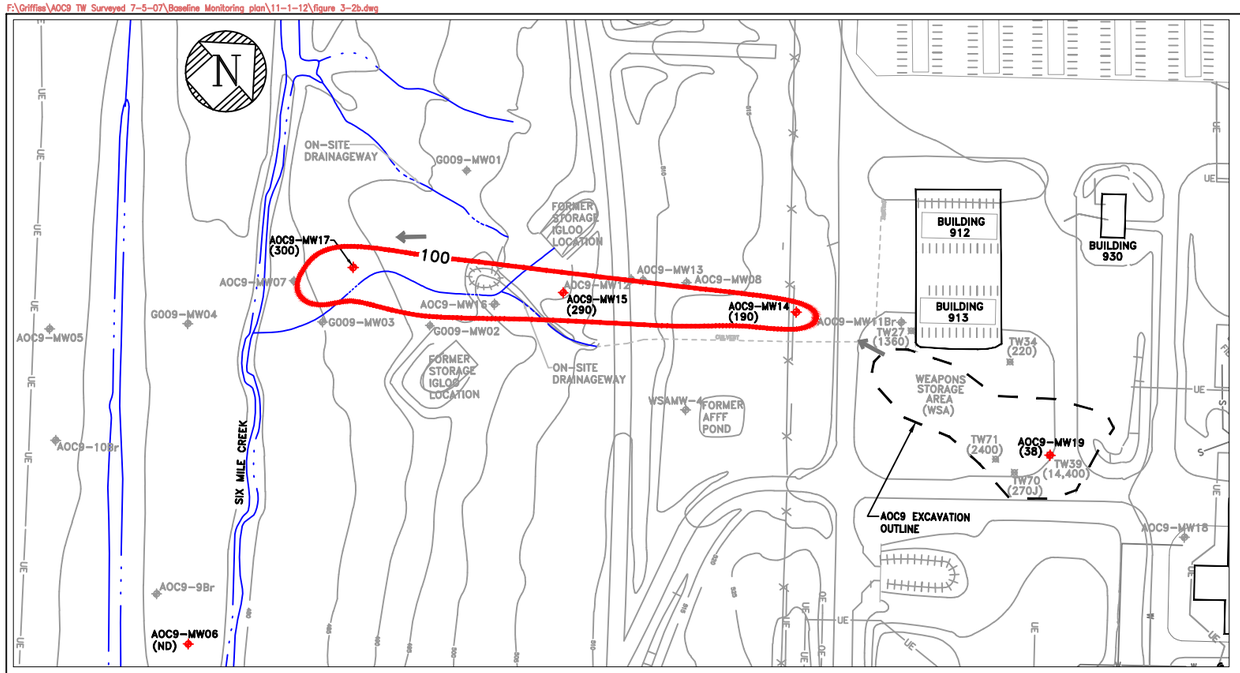
Prepared by: ecology and environment engineering p.c.

In Association with: parsons

DRAWING TITLE:
AOC 9
PERFORMANCE MONITORING
CHLOROBENZENE PLUME

FIGURE 3-2a

F:\Griffiss\AOC9 TW Surveyed 7-5-07\Baseline Monitoring plan\11-1-12\figure 3-2b.dwg



PERFORMANCE MONITORING SEPTEMBER 2012

RESERVED FOR FUTURE SAMPLING EVENT

RESERVED FOR FUTURE SAMPLING EVENT

RESERVED FOR FUTURE SAMPLING EVENT

LEGEND

- AOC9-MW14 — BASELINE MONITORING WELL SAMPLE LOCATION
- EXISTING WELL
- 100 — CHLOROBENZENE PLUME CONTOUR IN PARTS PER BILLION
- 525 — TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
- GROUNDWATER FLOW DIRECTION
- (0.5J) — CHLOROBENZENE IN PARTS PER BILLION
- TW39 — PREDESIGN INVESTIGATION TEMPORARY MONITORING WELL
- (ND) — NOT DETECTED

SCALE IN FEET
0 200 400 600

GRIFFISS AFB OBGW SITES
AOC 9 SITE
ROME, NEW YORK

NOTE: HISTORICAL MONITORING WELL DATA WAS USED TO ESTIMATE CONTOUR LINES WHEN NEW DATA WAS NOT AVAILABLE (SEE FIG 1-2).

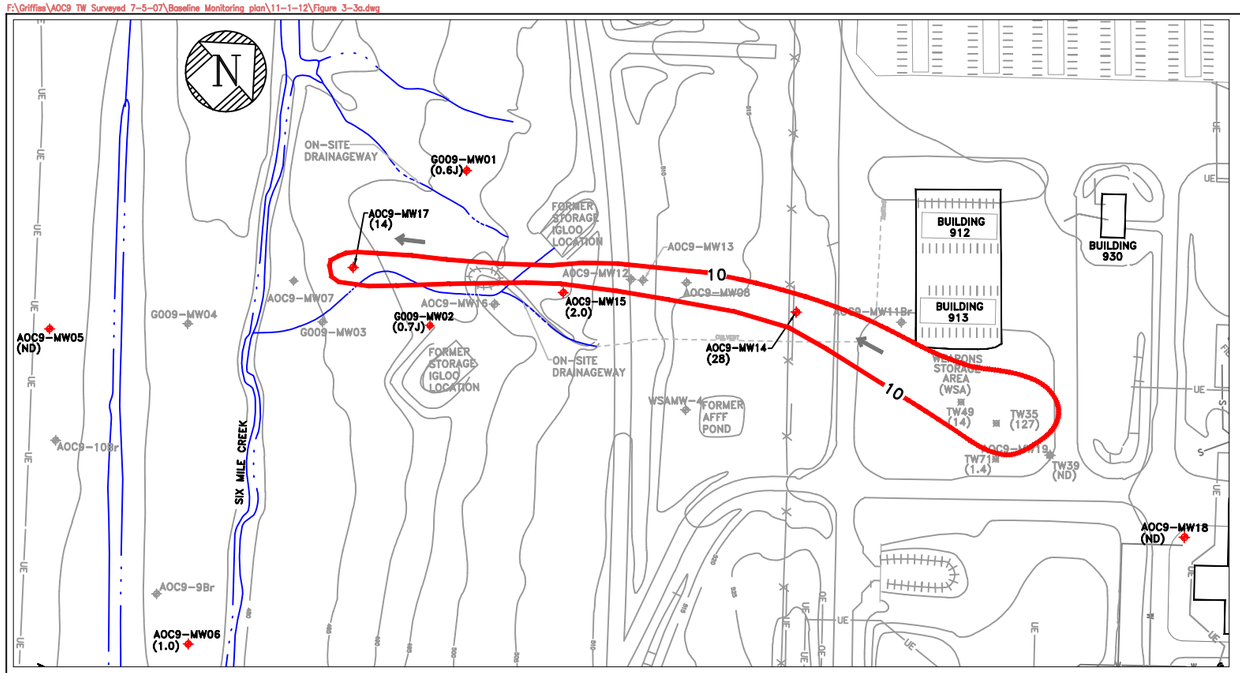
Prepared by: ecology and environment engineering p.c.

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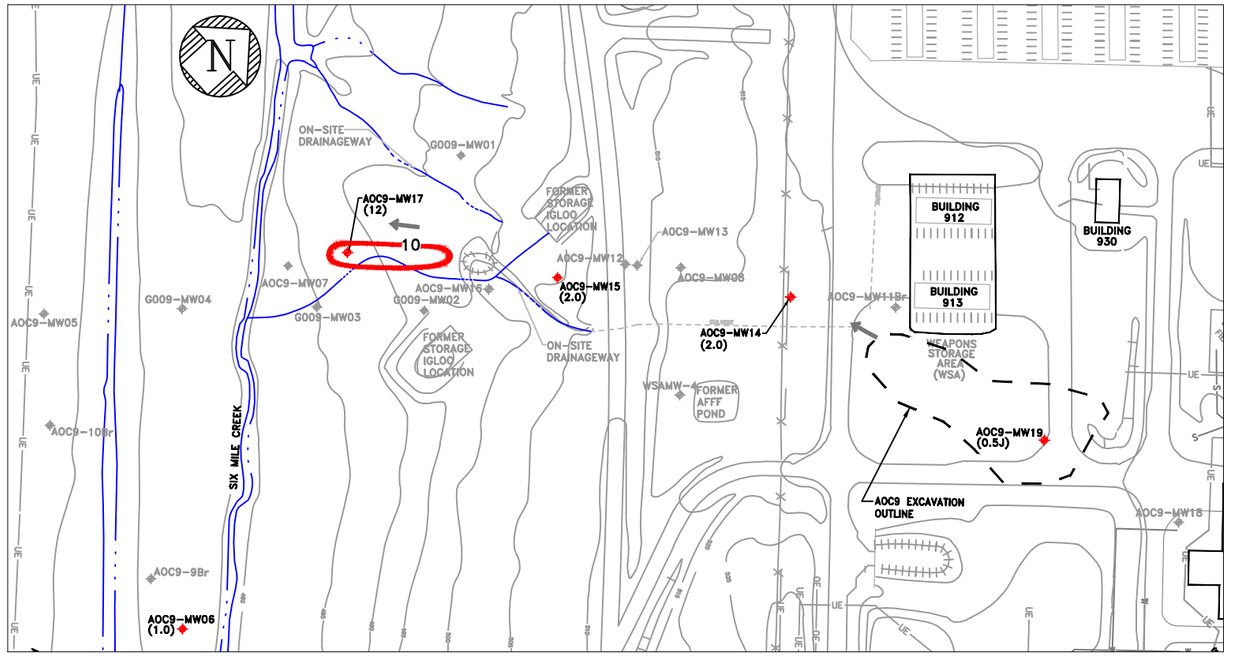
DRAWING TITLE:
AOC 9
PERFORMANCE MONITORING
CHLOROBENZENE PLUME

FIGURE 3-2b

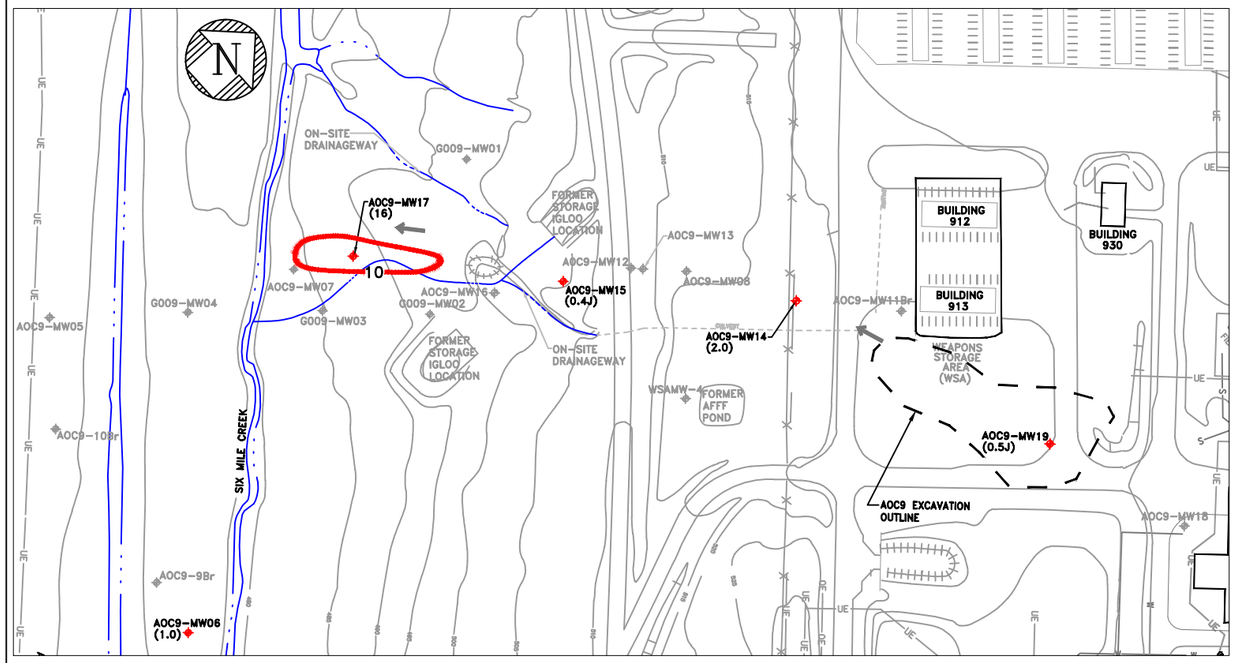
F:\Griffiss\AOC9 TW Surveyed 7-5-07\Baseline Monitoring plan\11-1-12\Figure 3-3a.dwg



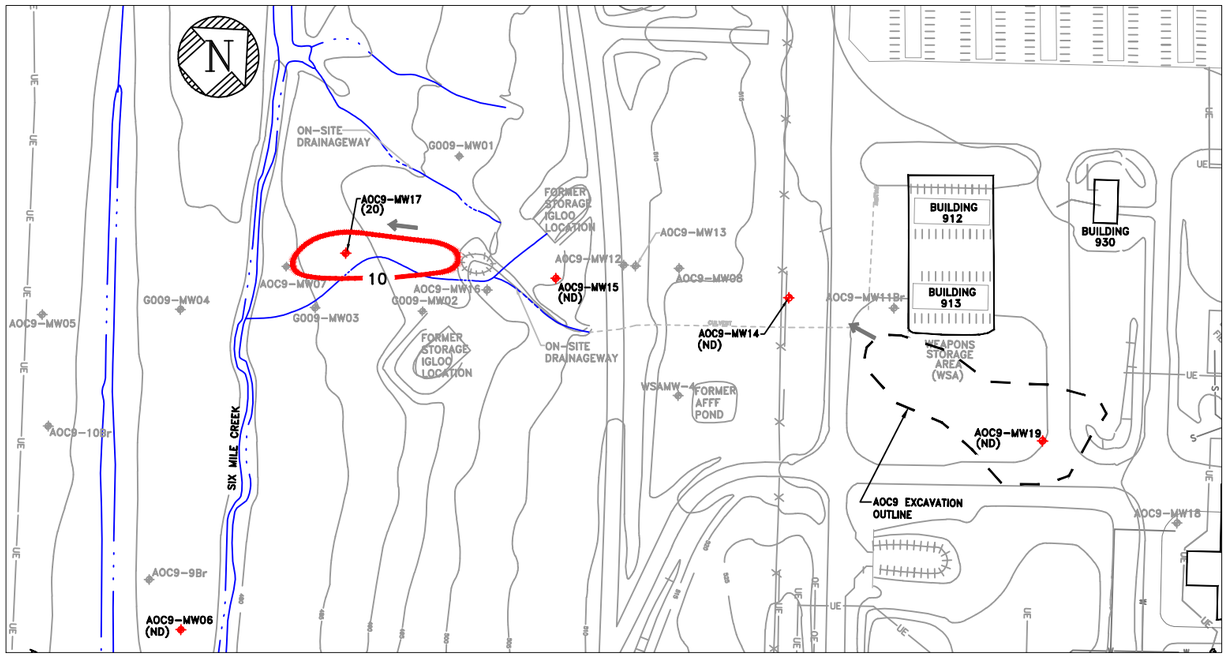
BASELINE SAMPLING JULY 2010



PERFORMANCE MONITORING MAY 2011



PERFORMANCE MONITORING OCTOBER 2011



PERFORMANCE MONITORING APRIL 2012

LEGEND

- AOC9-MW14 — BASELINE MONITORING WELL SAMPLE LOCATION
- EXISTING WELL
- 10 — TCE PLUME CONTOUR IN PARTS PER BILLION
- 525 — TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
- GROUNDWATER FLOW DIRECTION
- (0.5J) — TCE IN PARTS PER BILLION
- TW39 — PREDESIGN INVESTIGATION TEMPORARY MONITORING WELL
- (ND) — NOT DETECTED

SCALE IN FEET

0 200 400 600

GRIFFISS AFB OBGW SITES
AOC 9 SITE
ROME, NEW YORK

NOTE: HISTORICAL MONITORING WELL DATA WAS USED TO ESTIMATE CONTOUR LINES WHEN NEW DATA WAS NOT AVAILABLE (SEE FIG 1-2).

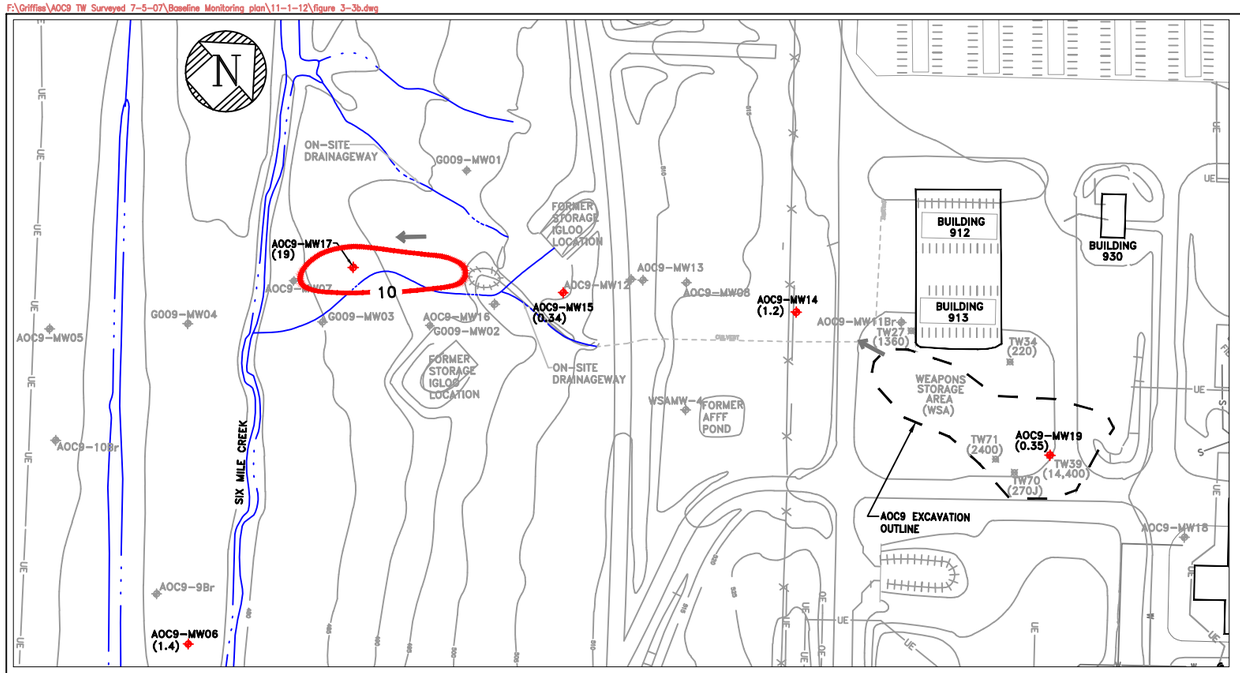
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DRAWING TITLE:
AOC 9
PERFORMANCE MONITORING
TCE PLUME

FIGURE 3-3a

F:\Griffiss\AOC9 TW Surveyed 7-5-07\Baseline Monitoring plan\11-1-12\figure 3-3b.dwg



PERFORMANCE MONITORING SEPTEMBER 2012

RESERVED FOR FUTURE SAMPLING EVENT

RESERVED FOR FUTURE SAMPLING EVENT

RESERVED FOR FUTURE SAMPLING EVENT

LEGEND

- AOC9-MW14 — BASELINE MONITORING WELL SAMPLE LOCATION
- EXISTING WELL
- 10 — TCE PLUME CONTOUR IN PARTS PER BILLION
- 525 — TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
- GROUNDWATER FLOW DIRECTION
- (0.5J) — TCE IN PARTS PER BILLION
- TW39 — PREDESIGN INVESTIGATION TEMPORARY MONITORING WELL
- (ND) — NOT DETECTED

SCALE IN FEET
0 200 400 600

GRIFFISS AFB OBGW SITES
AOC 9 SITE
ROME, NEW YORK

NOTE: HISTORICAL MONITORING WELL DATA WAS USED TO ESTIMATE CONTOUR LINES WHEN NEW DATA WAS NOT AVAILABLE (SEE FIG 1-2).

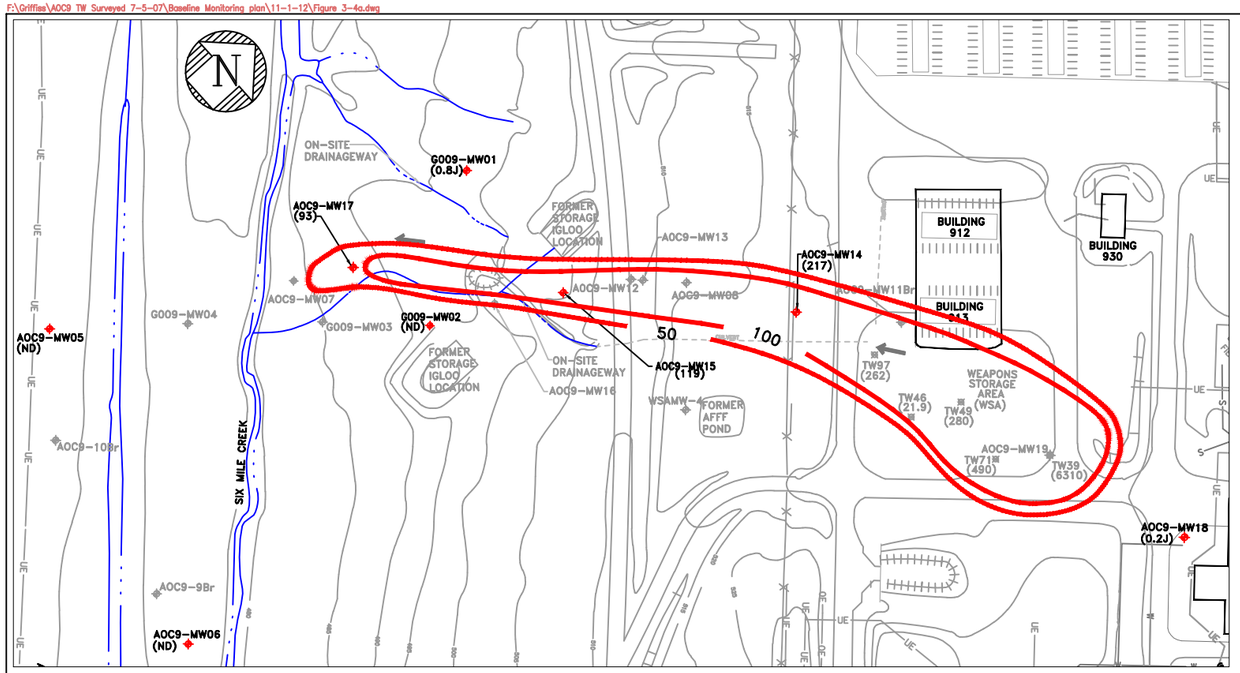
Prepared by: ecology and environment engineering p.c.

In Association with: parsons

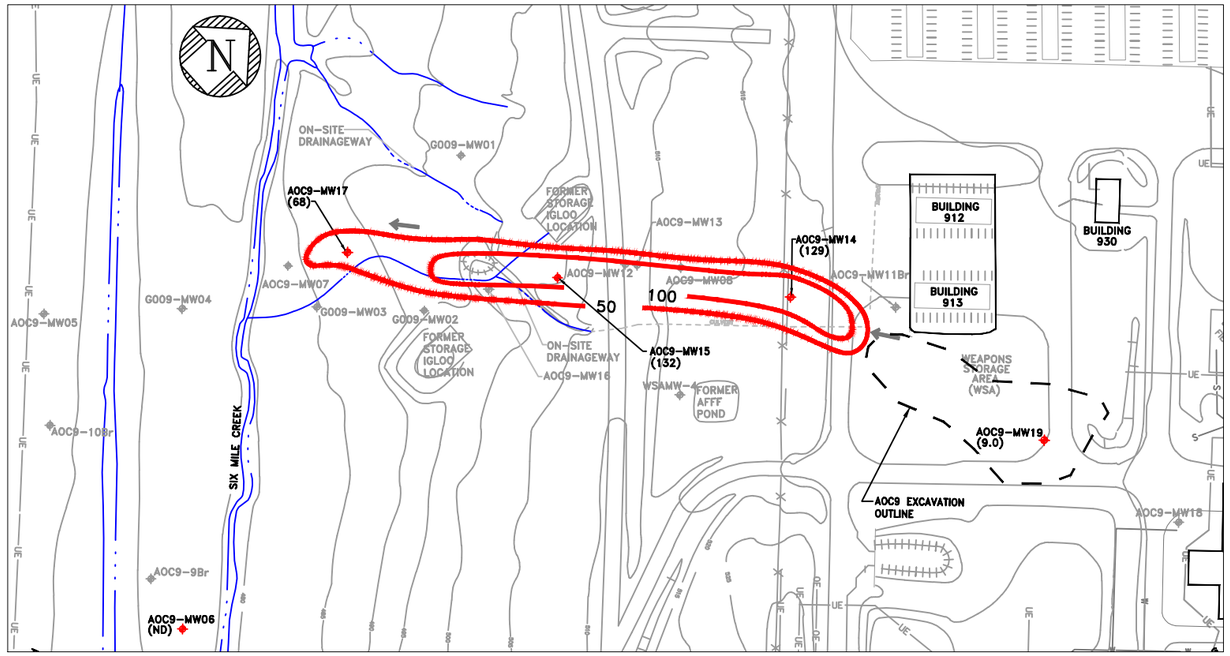
DRAWING TITLE:
AOC 9
PERFORMANCE MONITORING
TCE PLUME

FIGURE 3-3b

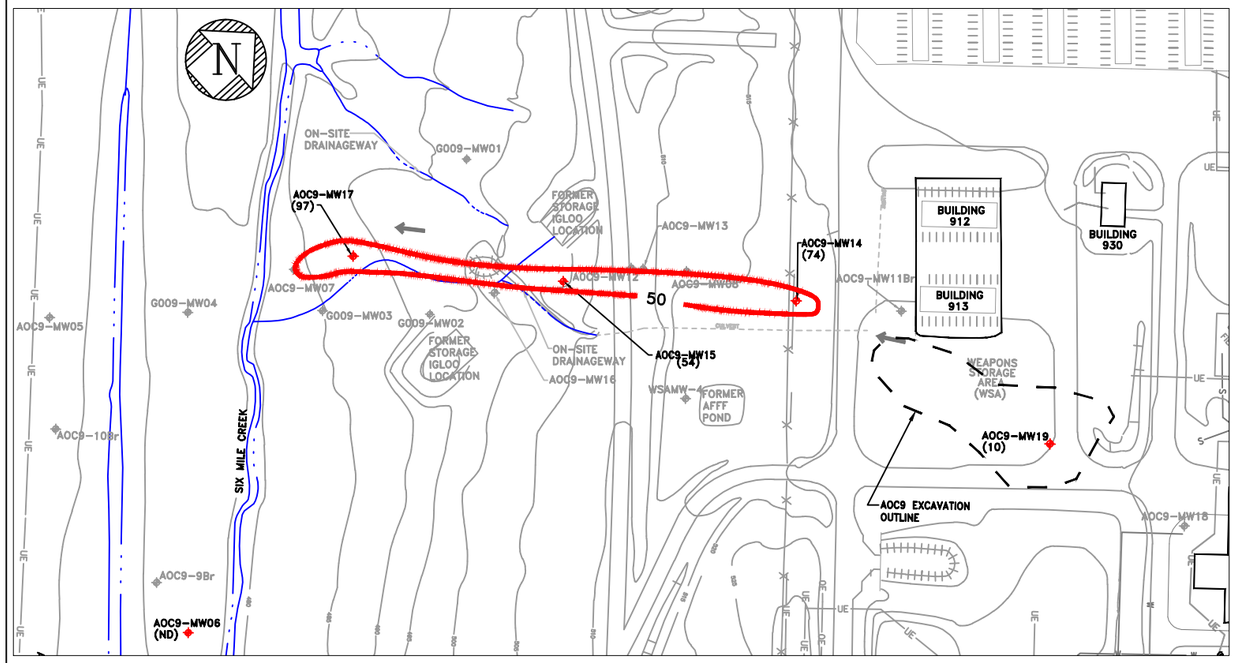
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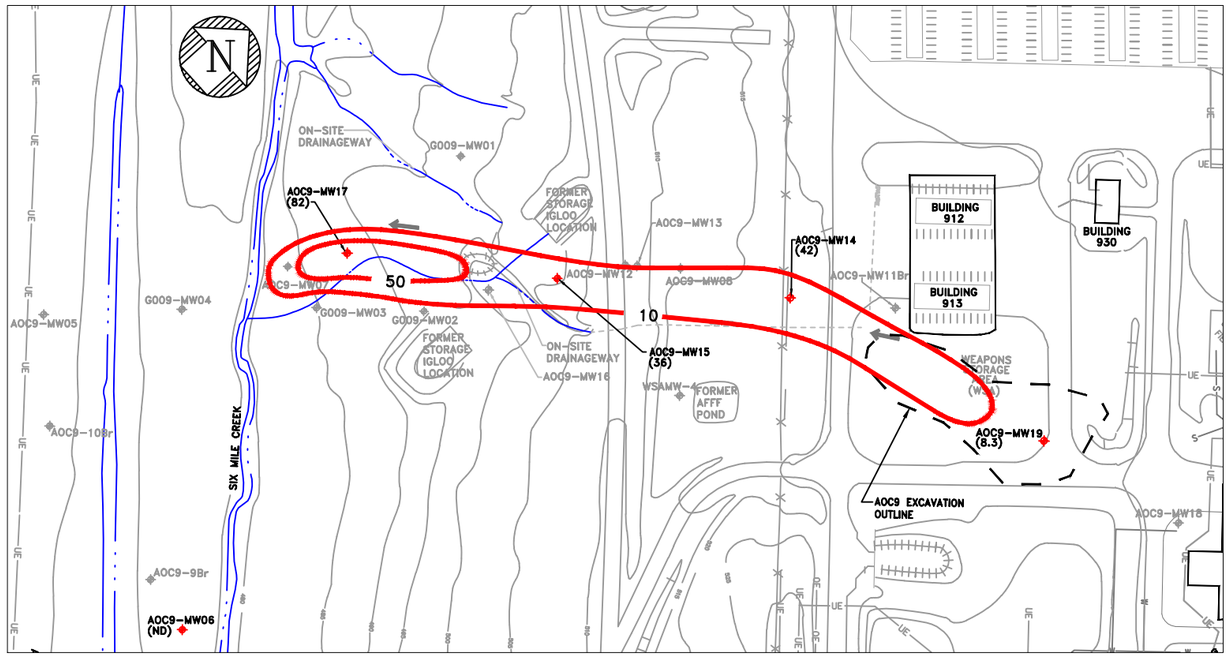
BASELINE SAMPLING JULY 2010



PERFORMANCE MONITORING MAY 2011



PERFORMANCE MONITORING OCTOBER 2011



PERFORMANCE MONITORING APRIL 2012

LEGEND

- AOC9-MW14 — BASELINE MONITORING WELL SAMPLE LOCATION
- EXISTING WELL
- 50 — TOTAL DCB PLUME CONTOUR IN PARTS PER BILLION
- 525 — TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
- GROUNDWATER FLOW DIRECTION
- (0.5J) — TOTAL DCB IN PARTS PER BILLION
- TW39 — PREDESIGN INVESTIGATION TEMPORARY MONITORING WELL
- (ND) — NOT DETECTED

SCALE IN FEET
0 200 400 600

GRIFFISS AFB OBGW SITES
AOC 9 SITE
ROME, NEW YORK

NOTE: HISTORICAL MONITORING WELL DATA WAS USED TO ESTIMATE CONTOUR LINES WHEN NEW DATA WAS NOT AVAILABLE (SEE FIG 1-2).

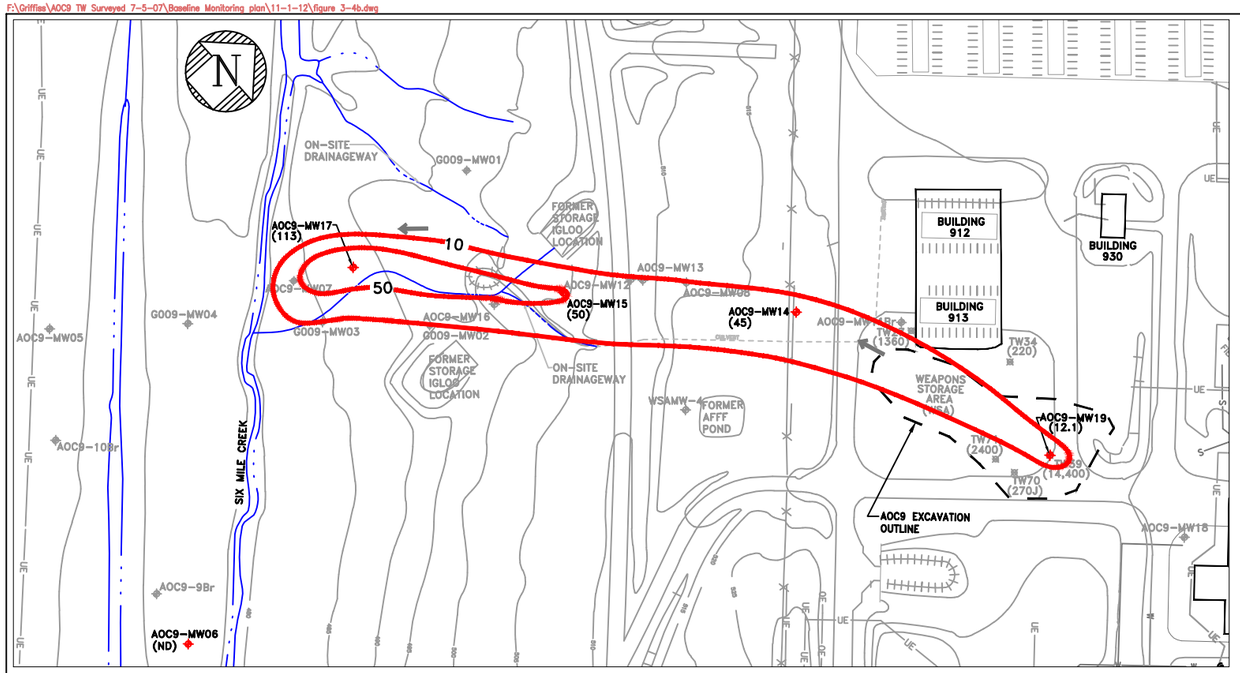
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DRAWING TITLE:
AOC 9
PERFORMANCE MONITORING
TOTAL DCB PLUME

FIGURE 3-4a

F:\Griffiss\AOC9 TW Surveyed 7-5-07\Baseline Monitoring plan\11-1-12\figure 3-4b.dwg



PERFORMANCE MONITORING SEPTEMBER 2012

RESERVED FOR FUTURE SAMPLING EVENT

RESERVED FOR FUTURE SAMPLING EVENT

RESERVED FOR FUTURE SAMPLING EVENT

LEGEND

- AOC9-MW14 — BASELINE MONITORING WELL SAMPLE LOCATION
- EXISTING WELL
- 10 — TOTAL DCB PLUME CONTOUR IN PARTS PER BILLION
- 525 — TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
- GROUNDWATER FLOW DIRECTION
- (0.5J) — TOTAL DCB IN PARTS PER BILLION
- TW39 — PREDESIGN INVESTIGATION TEMPORARY MONITORING WELL
- (ND) — NOT DETECTED

SCALE IN FEET
0 200 400 600

GRIFFISS AFB OBGW SITES
AOC 9 SITE
ROME, NEW YORK

NOTE: HISTORICAL MONITORING WELL DATA WAS USED TO ESTIMATE CONTOUR LINES WHEN NEW DATA WAS NOT AVAILABLE (SEE FIG 1-2).

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DRAWING TITLE:
AOC 9
PERFORMANCE MONITORING
TOTAL DCB PLUME

FIGURE 3-4b

Figure 3-5 AOC9-MW06 Trend Analysis

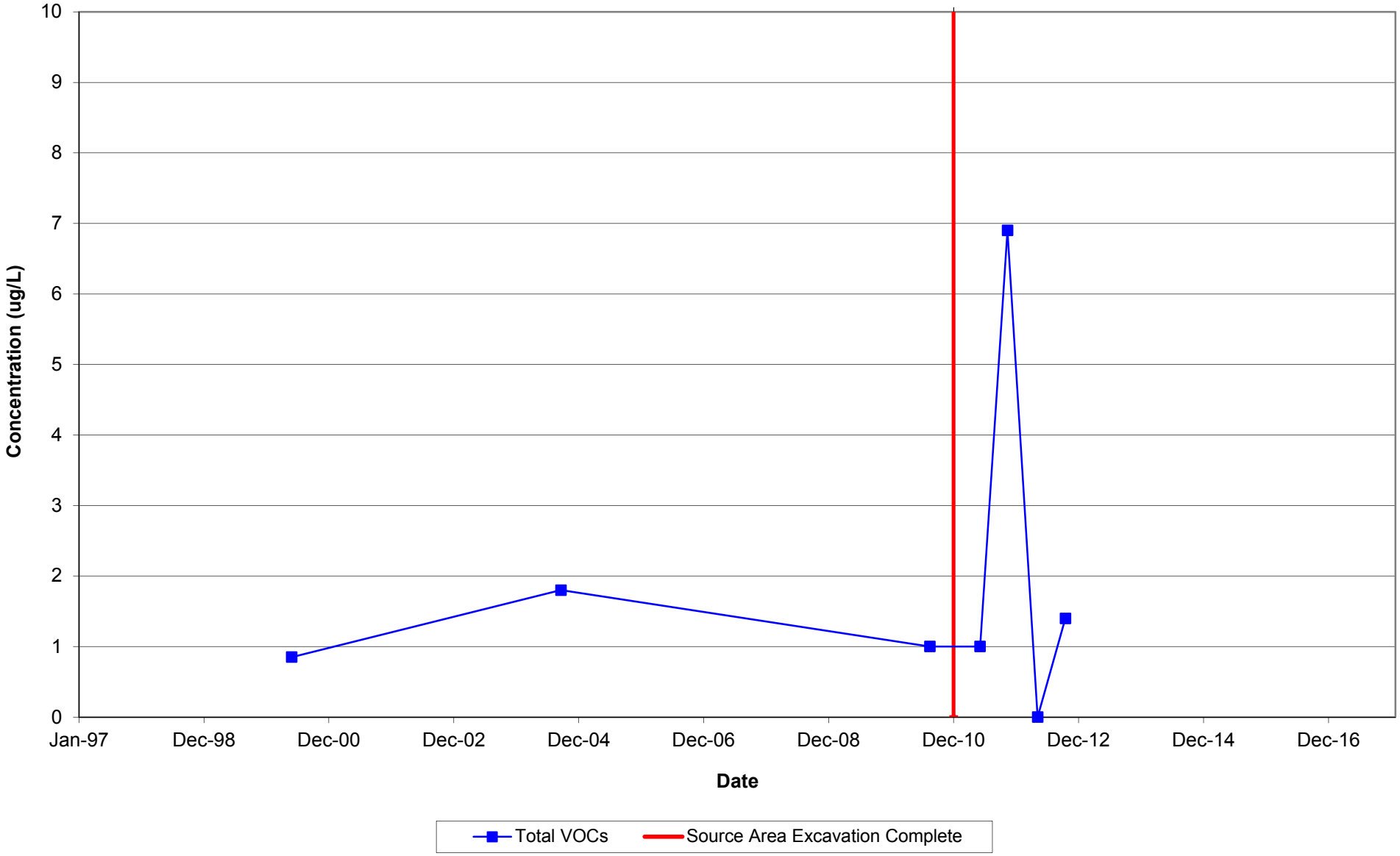


Figure 3-6 AOC9-MW14 Trend Analysis

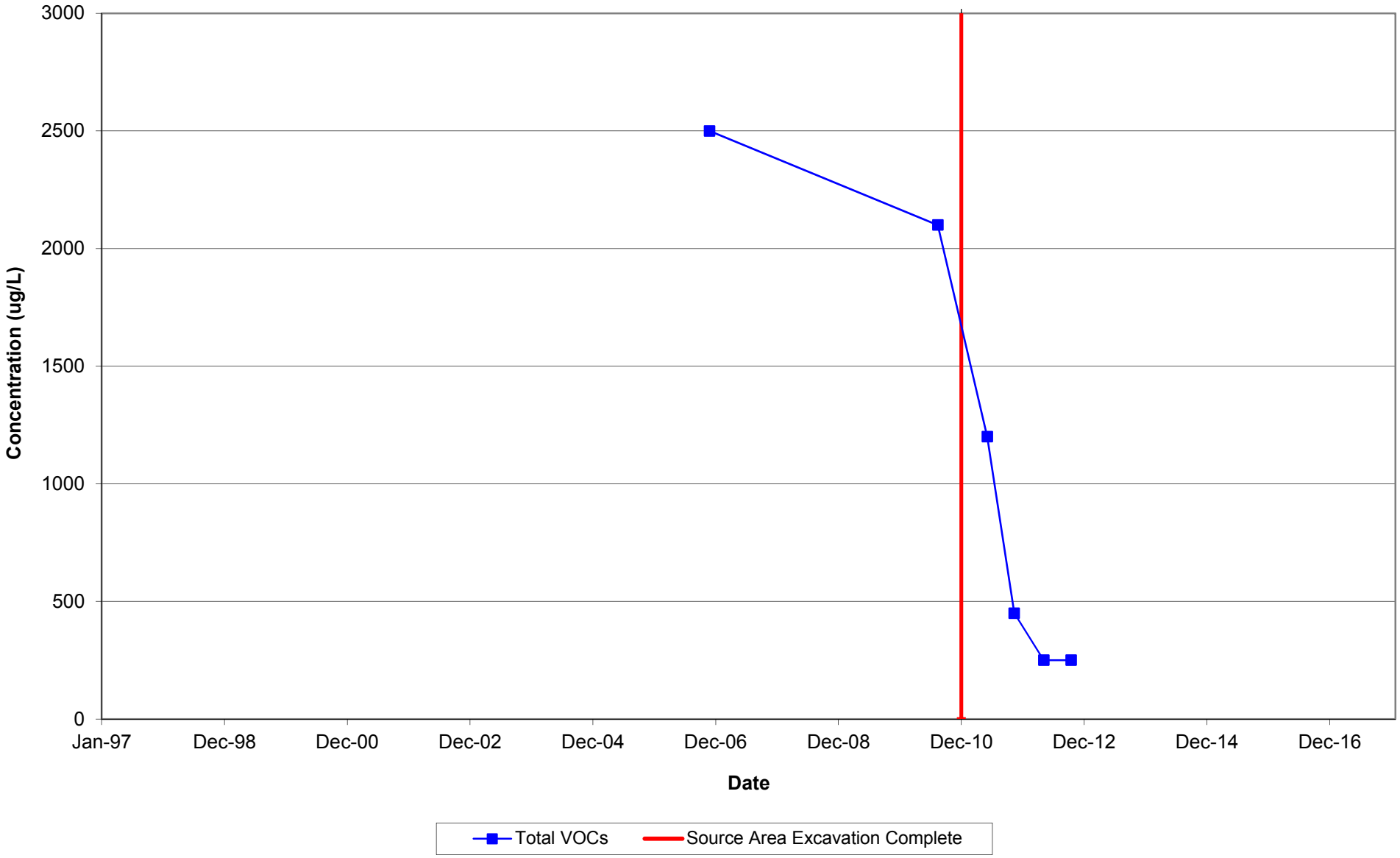


Figure 3-7 AOC9-MW15 Trend Analysis

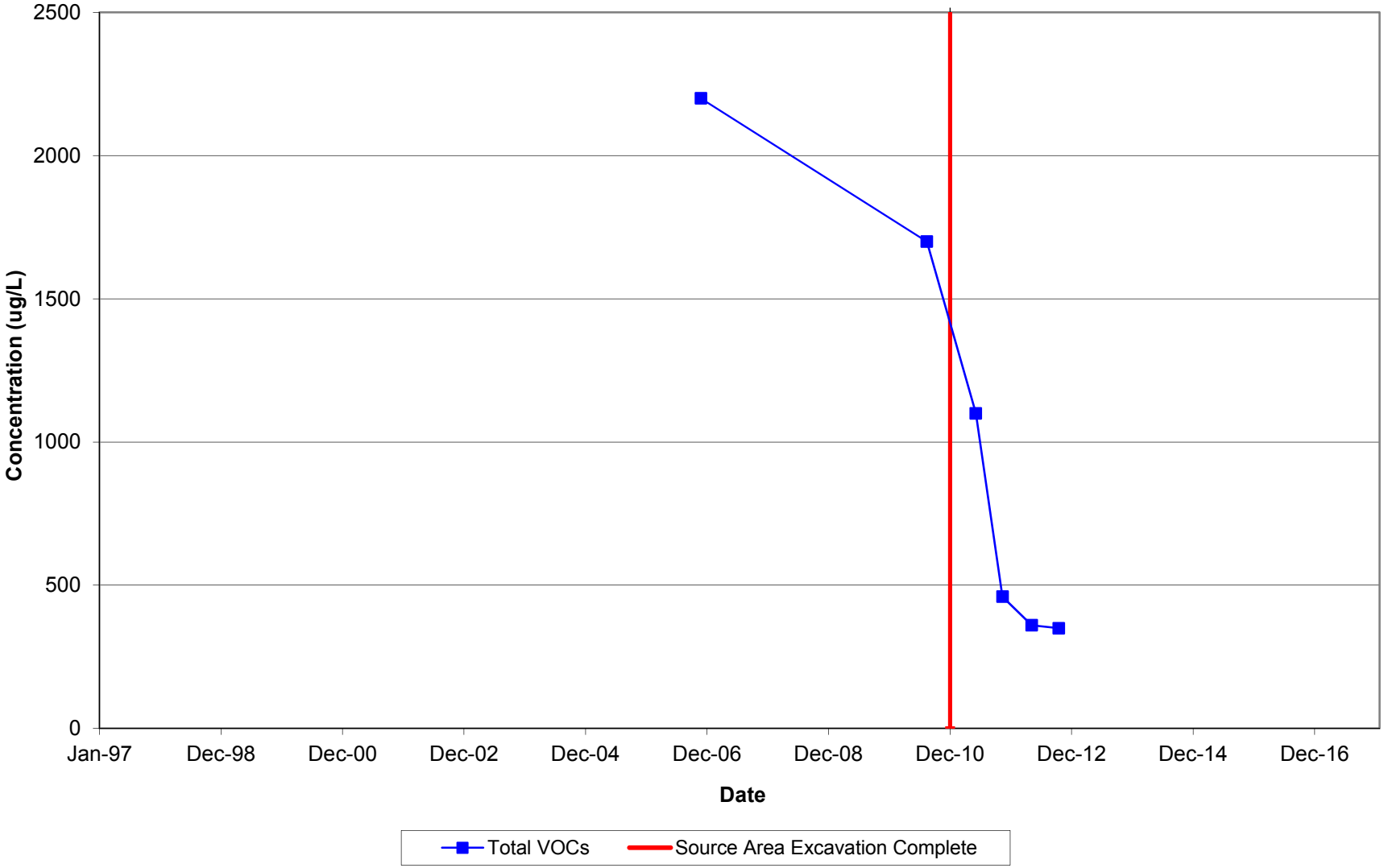


Figure 3-8 AOC9-MW17 Trend Analysis

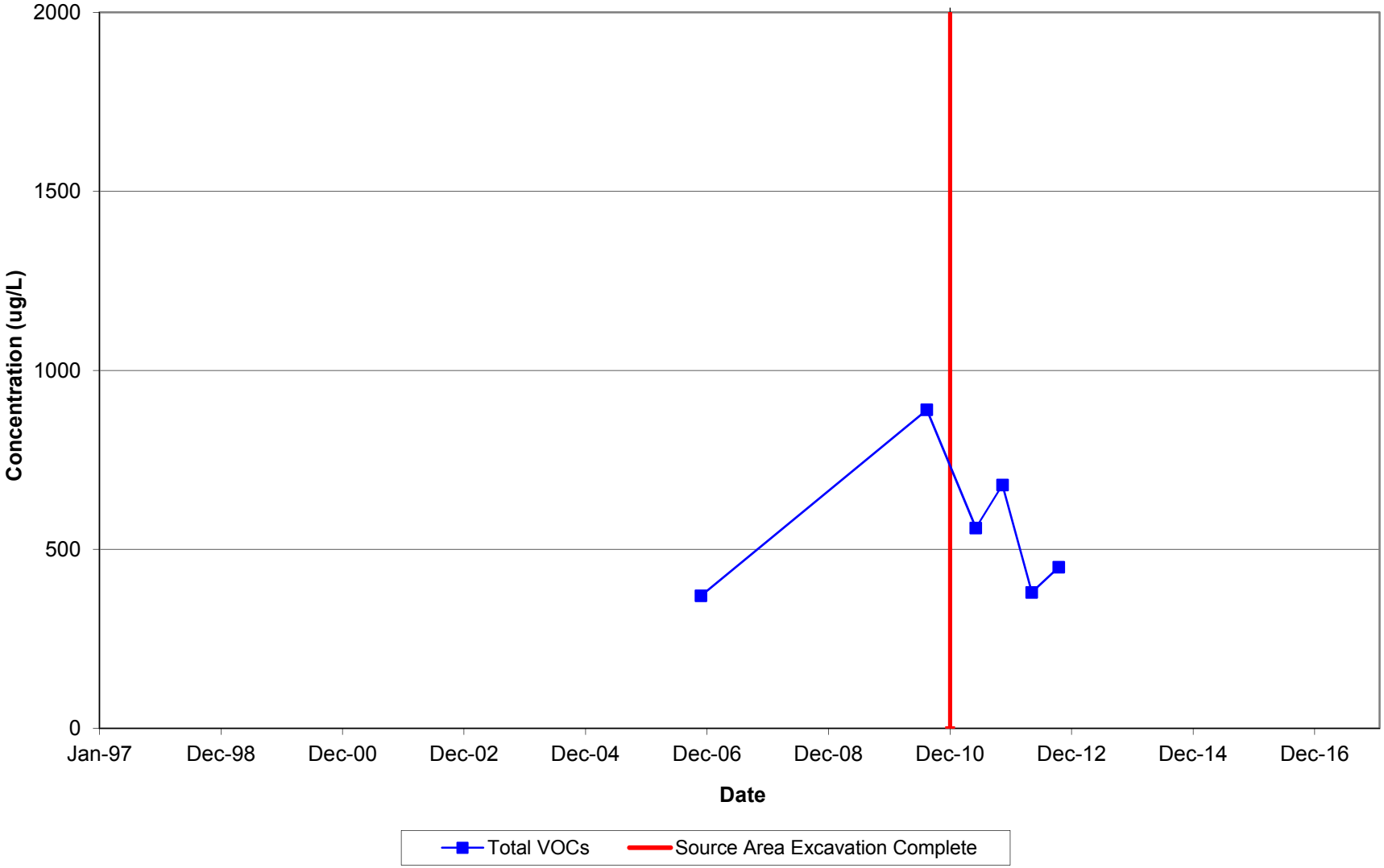
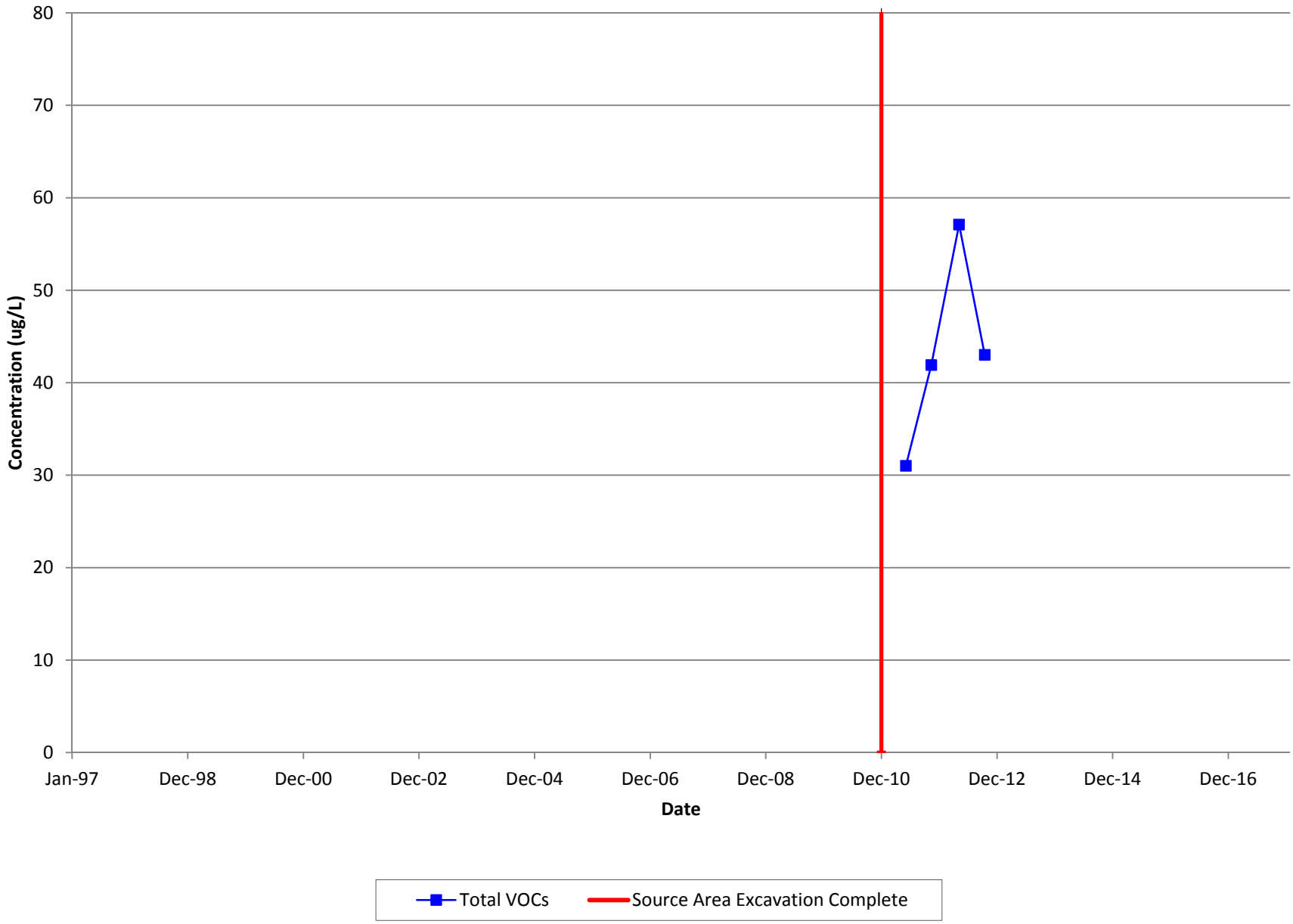


Figure 3-9 AOC9-MW19 Trend Analysis



4 Effectiveness of Remedy

Since baseline sampling, the center line of plume monitoring wells (MW14, MW15, and MW17) have seen a reduction in total VOC contamination. A reduction of 88%, 79%, and 50%, respectively, is shown from baseline to the September 2012 performance monitoring event. MW06 has shown small fluctuations in total VOC contamination from non-detect to 6.9 µg/L since the remedial excavation, indicating a stable leading edge of the plume. MW19 was not installed until after baseline sampling and has also shown an increase in total VOC contamination, from 31 µg/L to 43 µg/L since the May 2011 performance monitoring event, but a decrease in concentration 57 µg/L to 43 µg/L since the April 2012 performance monitoring event and an overall decrease from 21,610 µg/L detected at TW39 at the same location during the PDI 2 investigation in 2007.

Based on the significant reductions seen in VOC concentrations in source area well MW19 and within the centerline of the contaminant plume in comparison to sample data collected prior to the remedial excavation, and the stability of the leading edge of the plume as indicated by the VOC concentrations obtained from MW06, the AOC 9 groundwater remedy has been effective during this performance monitoring period.

No changes to the approved long-term monitoring plan are proposed at this time. Long-term monitoring will occur for three more years with annual sampling events planned for spring of 2013, 2014, and 2015. Nine wells (MW-01, MW-02, MW-05, MW-06, MW-14, MW-15, MW-17, MW-18, and MW-19) and three surface water locations (SW-01, SW-02, and SW-03) will be sampled as part of long-term monitoring. Additionally, a sodium persulfate injection targeting the southern portion of the remedial excavation area, located between MW-14 and MW-19, is planned for 2013. The details of the persulfate injection will be provided as part of a separate document by Parsons (Remedial Action Workplan). The injection will target the area immediately downgradient of the former source area and is intended to ensure that the downward trend in groundwater contaminants continues.

5 References

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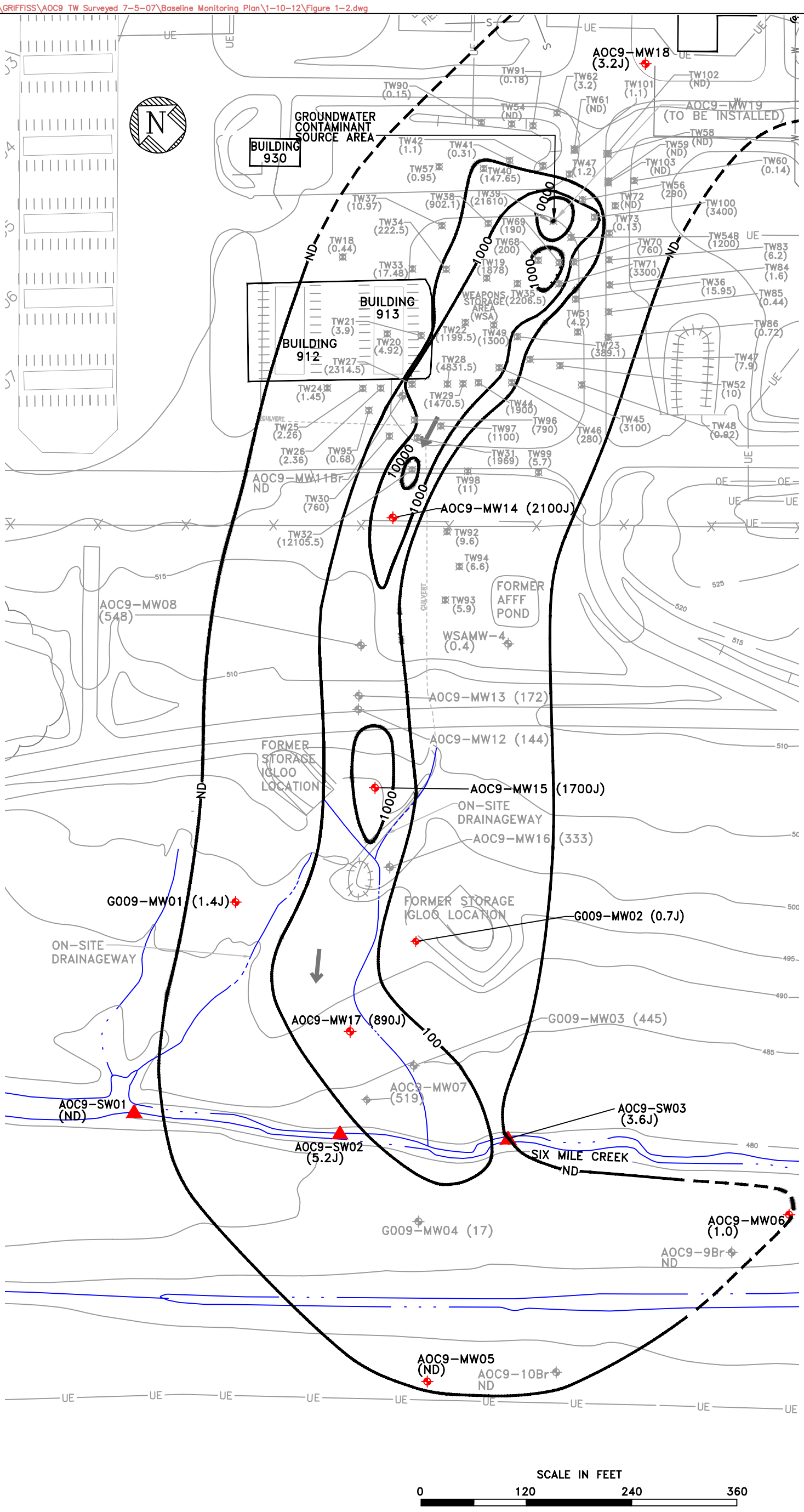
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A

Draft May 2011 and October 2011 Performance Monitoring Data Summary Report Figures

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LEGEND

525	TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
ND	NOT DETECTED
10000	TOTAL VOC CONTOUR IN ug/L (DASHED WHERE INFERRED)
AOC9-MW14	BASELINE MONITORING WELL SAMPLE LOCATION
AOC9-MW08 (548)	EXISTING WELL WITH HISTORIC TOTAL VOC CONCENTRATION IN GROUNDWATER (ug/L), SEE NOTES BELOW
(140)	2010 BASELINE SAMPLING TOTAL VOC CONCENTRATION IN GROUNDWATER AND SURFACE WATER (ug/L)
→	GROUNDWATER FLOW DIRECTION
▲	SURFACE WATER SAMPLING LOCATIONS
TW99 (5.7)	2006 AND 2007 PREDESIGN TEMPORARY MONITORING WELL TOTAL VOC CONCENTRATION IN GROUNDWATER (ug/L)

NOTES:

1. MONITORING WELL AOC9-MW19 WAS INSTALLED AFTER THE BASELINE MONITORING AND REMEDIAL EXCAVATION WERE PERFORMED.
2. WHEN DUPLICATE SAMPLES ARE COLLECTED, THE HIGHEST VALUE OBTAINED IS USED ON THIS FIGURE.
3. TOTAL VOC CONCENTRATIONS IN GROUNDWATER FOR:

- AOC9-MW03, MW04, MW07, MW08 MW12, AND MW16 ARE SAMPLES COLLECTED DURING THE ON-BASE GROUNDWATER BASELINE SAMPLING IN 2006.
- BEDROCK MONITORING WELLS AOC9-9Br, 10Br, AND 11Br ARE FROM SAMPLES COLLECTED DURING THE BEDROCK GROUNDWATER STUDY IN 2002.
- MONITORING WELLS AOC9-MW13 AND WSAMW-4 ARE FROM SAMPLES COLLECTED IN 2004 DURING BASEWIDE GROUNDWATER MONITORING.

SCALE IN FEET

0 120 240 360

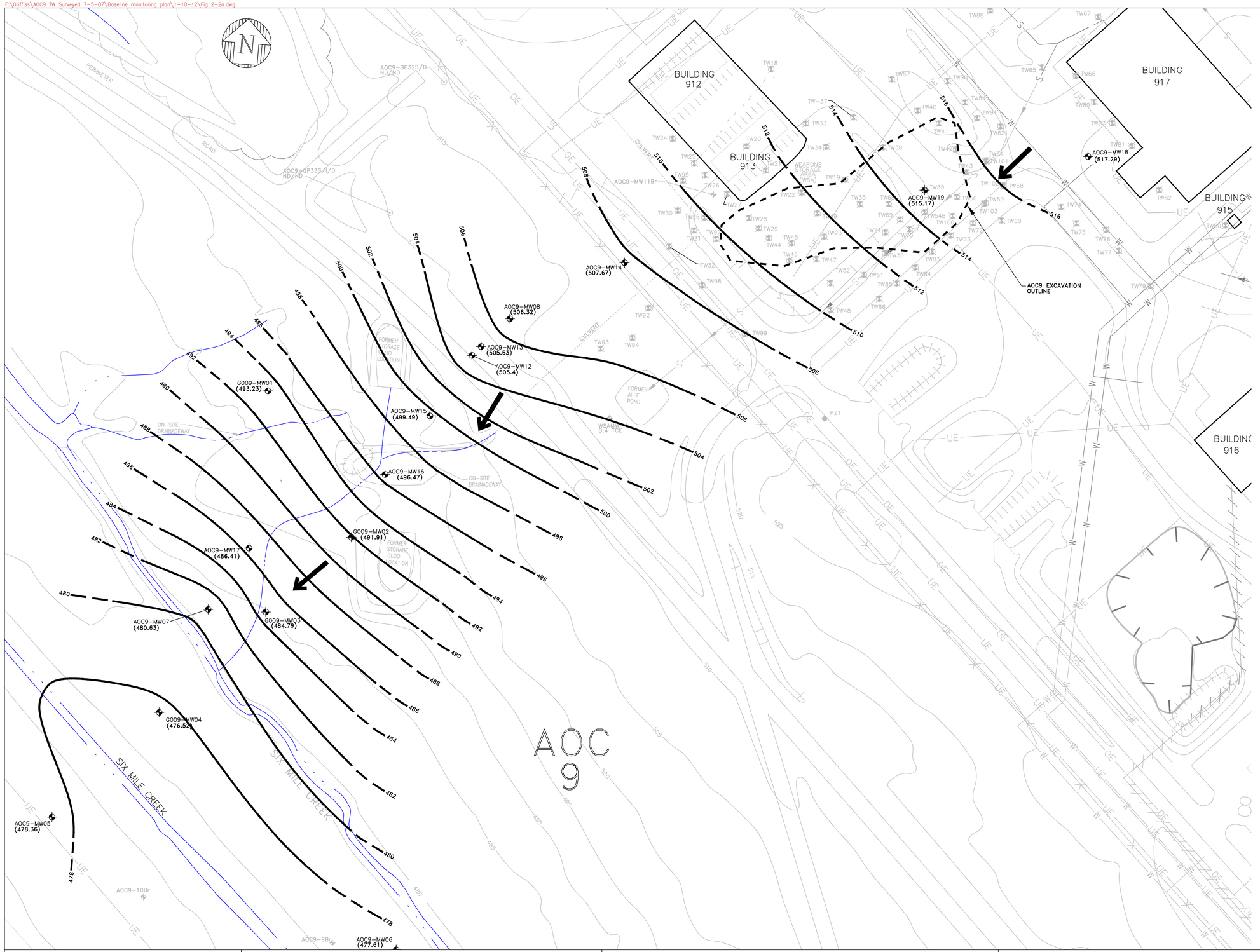
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AOC 9 SITE
ROME, NEW YORK

Prepared by:
ecology and environment engineering p.c.
In association with:
parsons

DRAWING TITLE: AOC 9
2010 BASELINE MONITORING TOTAL VOLATILE ORGANIC COMPOUND CONCENTRATIONS IN GROUNDWATER AND SURFACE WATER

FIGURE 1-2

F:\Griffiss\AOC9 TW Surveyed 7-5-07\Baseline monitoring plan\1-10-12\Fig 2-2a.dwg



LEGEND

X	FENCE
525	TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
UE	UNDERGROUND ELECTRIC
W	WATER LINE
S	SANITARY SEWER
OE	OVERHEAD ELECTRIC
	ABANDONED UNDERGROUND ELECTRIC
AMSL	ABOVE MEAN SEA LEVEL
476	GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
	DIRECTION OF GROUNDWATER FLOW
G009-MW01	PERMANENT MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION
TW44	TEMPORARY MONITORING WELL LOCATION
PZ-1	PIEZOMETER LOCATION
(517.35)	MAY 17, 2011 GROUNDWATER ELEVATION (FEET AMSL)

NOTE:
1. GROUNDWATER ELEVATIONS WERE COLLECTED ON 5/17/2011.

60 0 60 120
SCALE: 1"=60'

GRIFFISS AFB
AOC 9 SITE
ROME, NEW YORK

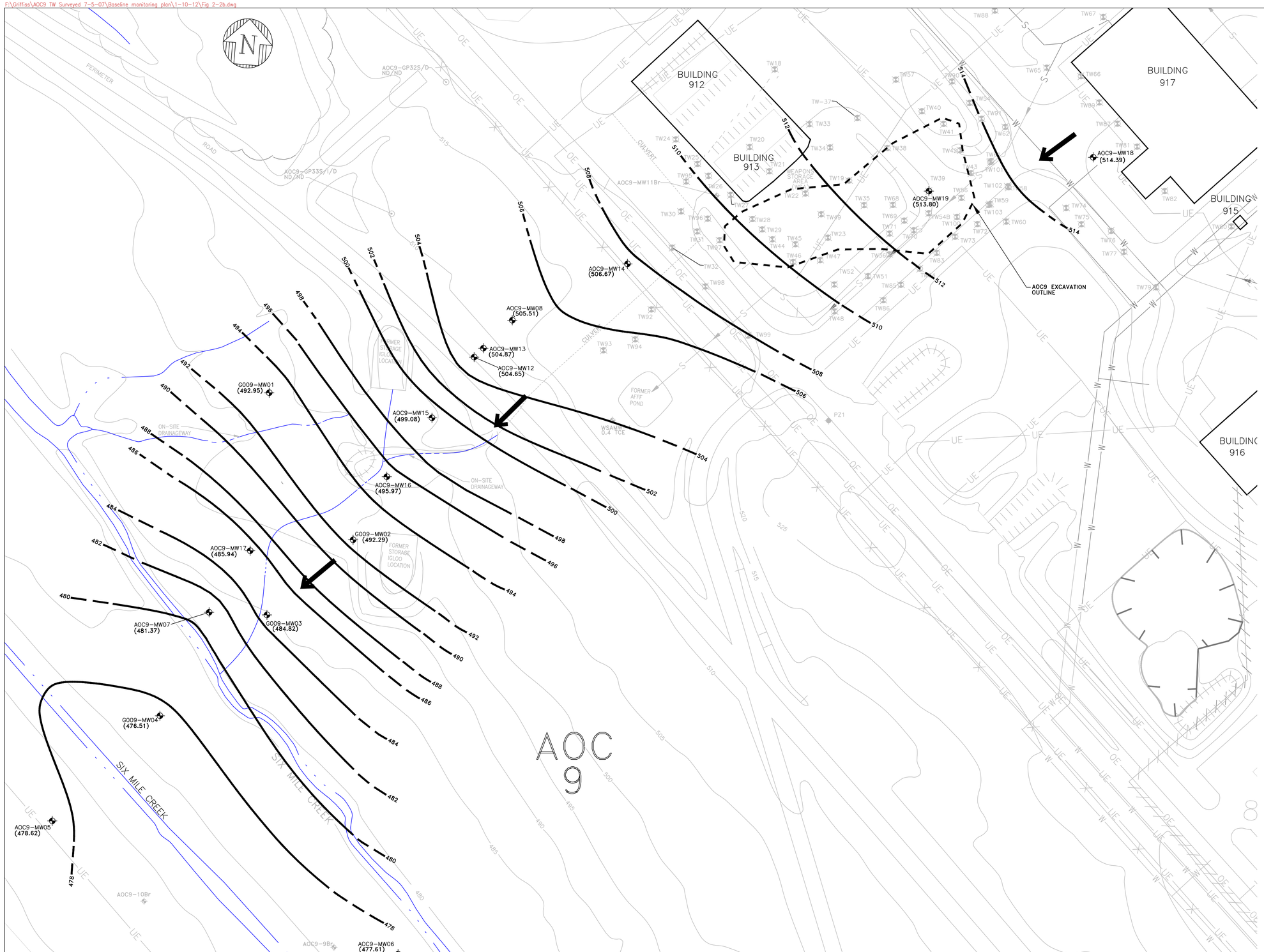
Prepared by: ecology and environment engineering p.c.

In Association with: parsons

DRAWING TITLE:
AOC 9: GROUNDWATER CONTOUR MAP
MAY 17, 2011

FIGURE 2-2a

F:\Griffiss\AOC9 TW Surveyed 7-5-07\Baseline monitoring plan\1-10-12\Fig 2-2b.dwg



LEGEND

X	FENCE
525	TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
UE	UNDERGROUND ELECTRIC
W	WATER LINE
S	SANITARY SEWER
OE	OVERHEAD ELECTRIC
	ABANDONED UNDERGROUND ELECTRIC
AMSL	ABOVE MEAN SEA LEVEL
476	GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
	DIRECTION OF GROUNDWATER FLOW
G009-MW01	PERMANENT MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION
TW44	TEMPORARY MONITORING WELL LOCATION
PZ-1	PIEZOMETER LOCATION
(517.35)	MAY 17, 2011 GROUNDWATER ELEVATION (FEET AMSL)

NOTE:
1. GROUNDWATER ELEVATIONS WERE COLLECTED ON 10/24/2011.

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SCALE: 1"=60'

GRIFFISS AFB
AOC 9 SITE
ROME, NEW YORK

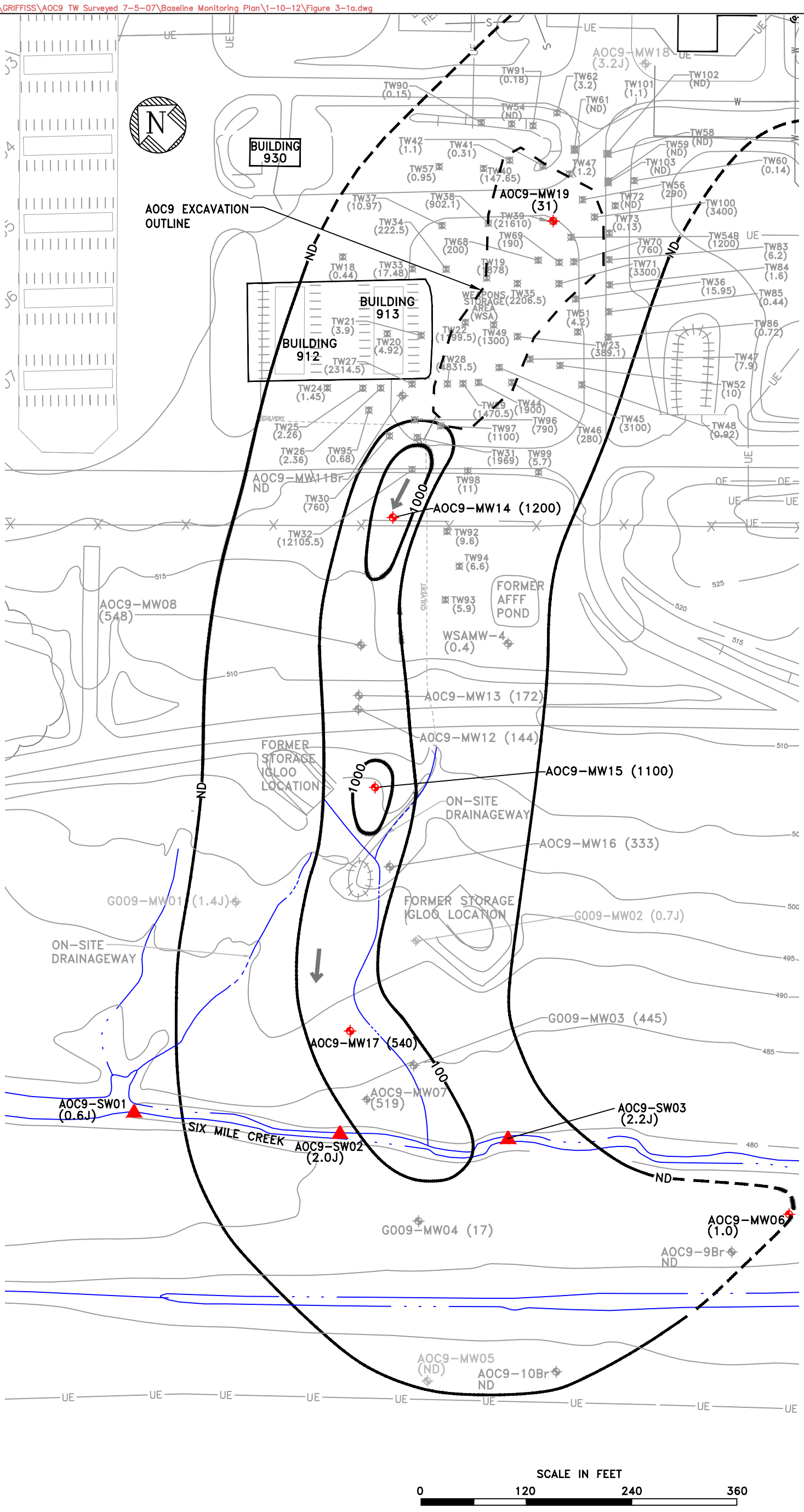
Prepared by: ecology and environment engineering p.c.

In Association with: parsons

DRAWING TITLE:
AOC 9: GROUNDWATER CONTOUR MAP
OCTOBER 24, 2011

FIGURE 2-2b

F:\GRIFFISS\AOC9 TW Surveyed 7-5-07\Baseline Monitoring Plan\1-10-12\Figure 3-1a.dwg



SCALE IN FEET

0 120 240 360

LEGEND

- 525 — TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
- ND — NOT DETECTED
- 10000 — TOTAL VOC CONTOUR IN ug/L (DASHED WHERE INFERRED)
- AOC9-MW14 — PERFORMANCE MONITORING WELL SAMPLE LOCATION
- AOC9-MW08 (548) — EXISTING WELL WITH HISTORIC TOTAL VOC CONCENTRATION IN GROUNDWATER (ug/L), SEE NOTES BELOW
- (31) — MAY 2011 PERFORMANCE SAMPLING TOTAL VOC CONCENTRATION IN GROUNDWATER AND SURFACE WATER (ug/L)
- → GROUNDWATER FLOW DIRECTION
- ▲ SURFACE WATER SAMPLING LOCATIONS
- TW99 (5.7) — 2006 AND 2007 PREDESIGN TEMPORARY MONITORING WELL TOTAL VOC CONCENTRATION IN GROUNDWATER (ug/L)

NOTES:

1. MONITORING WELL AOC9-MW19 IS A NEW WELL INSTALLED IN THE PLUME SOURCE AREA AFTER THE AOC9 GROUNDWATER REMEDY WAS COMPLETED, AND PRIOR TO PERFORMANCE MONITORING. AOC9-MW19 WAS INSTALLED AT THE LOCATION OF TEMPORARY WELL TW-39, WHICH CONTAINED 21,610 ug/L OF TOTAL VOCs IN GROUNDWATER.
2. WHEN DUPLICATE SAMPLES ARE COLLECTED, THE HIGHEST VALUE OBTAINED IS USED ON THIS FIGURE.
3. TOTAL VOC CONCENTRATIONS IN GROUNDWATER FOR:
   - AOC9-MW03, MW04, MW07, MW08 MW12, AND MW16 ARE SAMPLES COLLECTED DURING THE ON-BASE GROUNDWATER BASELINE SAMPLING IN 2006.
   - BEDROCK MONITORING WELLS AOC9-9Br, 10Br, AND 11Br ARE FROM SAMPLES COLLECTED DURING THE BEDROCK GROUNDWATER STUDY IN 2002.
   - MONITORING WELLS AOC9-MW13 AND WSAMW-4 ARE FROM SAMPLES COLLECTED IN 2004 DURING BASEWIDE GROUNDWATER MONITORING.

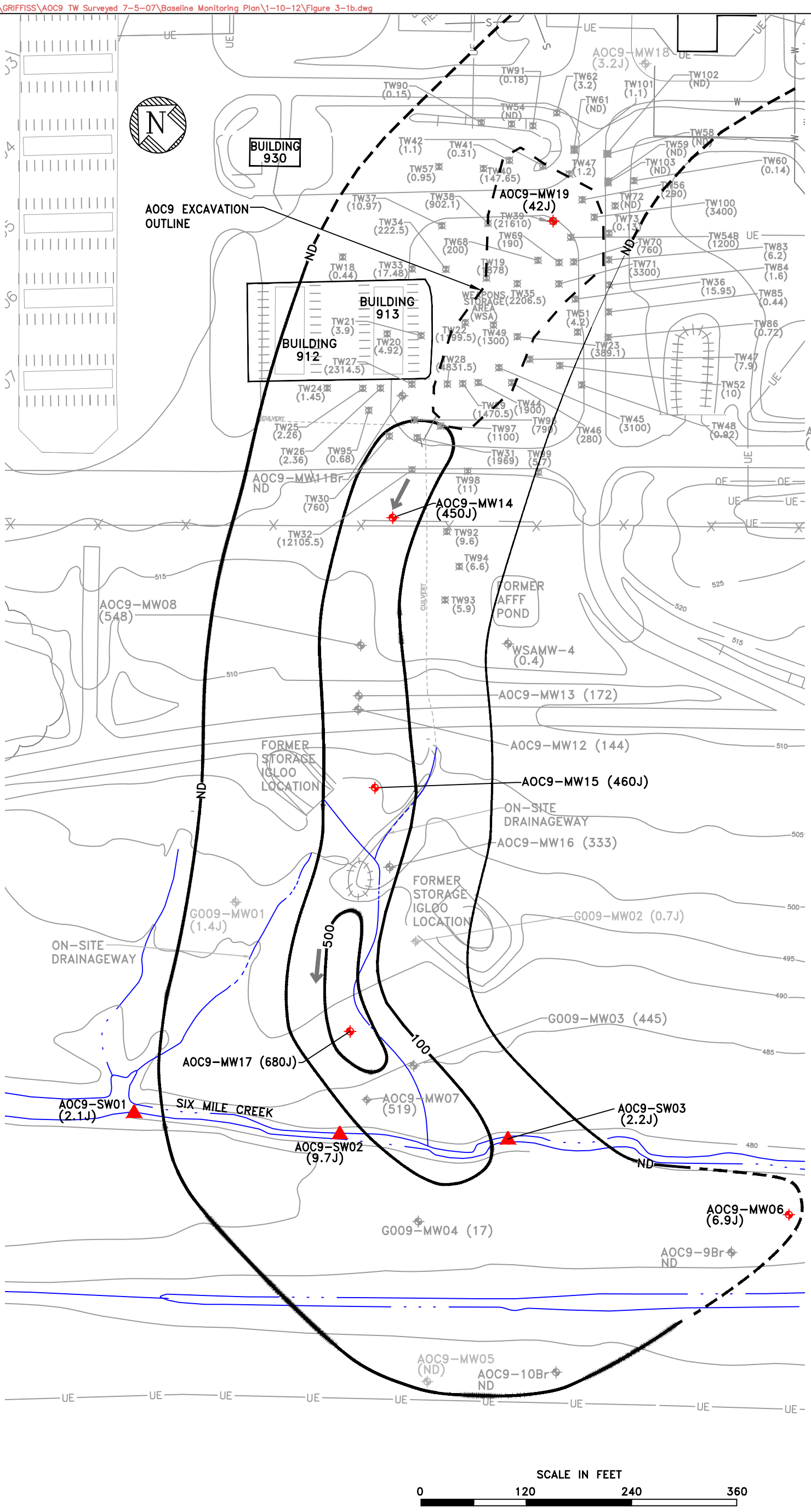
FORMER GRIFFISS AFB
AOC 9 SITE
ROME, NEW YORK

Prepared by:
ecology and environment engineering p.c.
In association with:
parsons

DRAWING TITLE: AOC9
MAY 2011 PERFORMANCE MONITORING TOTAL VOLATILE ORGANIC COMPOUND CONCENTRATIONS IN GROUNDWATER AND SURFACE WATER

FIGURE 3-1a

F:\GRIFFISS\AOC9 TW Surveyed 7-5-07\Baseline Monitoring Plan\1-10-12\Figure 3-1b.dwg



LEGEND

525	TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
ND	NOT DETECTED
10000	TOTAL VOC CONTOUR IN ug/L (DASHED WHERE INFERRED)
AOC9-MW14	PERFORMANCE MONITORING WELL SAMPLE LOCATION
AOC9-MW08 (548)	EXISTING WELL WITH HISTORIC TOTAL VOC CONCENTRATION IN GROUNDWATER (ug/L), SEE NOTES BELOW
(31)	OCTOBER 2011 PERFORMANCE SAMPLING TOTAL VOC CONCENTRATION IN GROUNDWATER AND SURFACE WATER (ug/L)
→	GROUNDWATER FLOW DIRECTION
▲	SURFACE WATER SAMPLING LOCATIONS
TW99 (5.7)	2006 AND 2007 PREDESIGN TEMPORARY MONITORING WELL TOTAL VOC CONCENTRATION IN GROUNDWATER (ug/L)

SCALE IN FEET
0 120 240 360

NOTES:

1. MONITORING WELL AOC9-MW19 IS A NEW WELL INSTALLED IN THE PLUME SOURCE AREA AFTER THE AOC9 GROUNDWATER REMEDY WAS COMPLETED, AND PRIOR TO PERFORMANCE MONITORING. AOC9-MW19 WAS INSTALLED AT THE LOCATION OF TEMPORARY WELL TW-39, WHICH CONTAINED 21,610 ug/L OF TOTAL VOCs IN GROUNDWATER.
2. WHEN DUPLICATE SAMPLES ARE COLLECTED, THE HIGHEST VALUE OBTAINED IS USED ON THIS FIGURE.
3. TOTAL VOC CONCENTRATIONS IN GROUNDWATER FOR:
   - AOC9-MW03, MW04, MW07, MW08 MW12, AND MW16 ARE SAMPLES COLLECTED DURING THE ON-BASE GROUNDWATER BASELINE SAMPLING IN 2006.
   - BEDROCK MONITORING WELLS AOC9-9Br, 10Br, AND 11Br ARE FROM SAMPLES COLLECTED DURING THE BEDROCK GROUNDWATER STUDY IN 2002.
   - MONITORING WELLS AOC9-MW13 AND WSAMW-4 ARE FROM SAMPLES COLLECTED IN 2004 DURING BASEWIDE GROUNDWATER MONITORING.

FORMER GRIFFISS AFB
AOC 9 SITE
ROME, NEW YORK

Prepared by:
ecology and environment engineering p.c.
In association with:
parsons

DRAWING TITLE: AOC9
OCTOBER 2011 PERFORMANCE MONITORING TOTAL VOLATILE ORGANIC COMPOUND CONCENTRATIONS IN GROUNDWATER AND SURFACE WATER

FIGURE 3-1b

B Daily Activity Forms

Daily Activity Summary

Date: Monday, April 16, 2012 | Report No.: 001

Project Name: AOC 9 Baseline, Performance, and Long-Term Monitoring, Former Griffiss AFB | Weather: few clouds, Sunny, 77°F, high winds PM

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
M. Horanburg	10.5	EEEPC			
L. Koedl	10.5	EEEPC			

Summary of Activities

Equipment	AOC/Task	Activities Performed
Water level indicator	water levels, surface water sampling, groundwater sampling	- measured water levels in permanent wells. - screen wells upon opening, screened purged groundwater - Measure turbidity of surface and groundwater
PID		
Lamotte turbidimeter		
YSI Pro Plus		-Measure pH, temp., cond., ORP, and DO of surface and groundwater
GeoControl		-control flow rate of bladder pump.

Figure 3-5 Daily Activity Summary Form

Daily Activity Summary

Date: Monday, 4/16/12	**Report No.:** 001
Project Name: AOC 9 Baseline, Performance, and Long-Term Monitoring, Former Griffiss AFB	**Weather:** See page 1.

Field Tests Performed (Sampling, Field Screening, Chemical Testing, etc.)

Screened wells and purge water with PID. Sampled surface water locations (SW01, SW02, SW03). Sampled groundwater (MW06). Measured pH, temp, cond., turbidity, and DRP of surface and groundwater. Measured DO of groundwater.

Work Delays (Due to Weather, Maintenance, Breakdowns, Waiting for Decisions)

No delays. Pumps were replaced in MW15 and MW17.

Problems Encountered and Deviations From Work Plan

None.

Written and Verbal Instruction by the Government

None.

Safety Issues

High temperatures - heat stress. High winds in afternoon.

Planned Activities for Next Work Day

Continue groundwater sampling at MW14, MW15, MW17, and MW19.

Remarks: (Visitors, Completion of Field Work at an AOC, etc.)

Surface water sampling complete. Water levels complete. A. Darpinian to be on-site tomorrow. One permanent well sampled. Beavers have built a dam just upstream of surface water location SW03.

Site Manager [signature] **Date** 4/16/12

Figure 3-5 Daily Activity Summary Form

Daily Activity Summary

Date: Tuesday, April 17, 2012 | Report No.: 002

Project Name: AOC 9 Baseline, Performance, and Long-Term Monitoring, Former Griffiss AFB | Weather: Partly Cloudy, windy, 48°F (AM), mid 50s (PM)

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
N. Horanburg	11.5	EEEPC			
L. Roedl	11.5	EEEPC			
A. Darpinian	2.5	USACE			

Summary of Activities

Equipment	AOC/Task	Activities Performed
water level indicator	groundwater sampling	- measure water levels in permanent wells
PID		- screen wells upon opening and screen purge water
~~Tank~~		
LaMotte turbidimeter		- measure turbidity of groundwater
YSI Pro Plus		- measure pH, temp, cond., ORP and DO of groundwater
GeoControl		- control flow rate of bladder pump.

Figure 3-5 Daily Activity Summary Form

Daily Activity Summary	
Date: Tuesday, 4/17/12	Report No.: 002
Project Name: AOC 9 Baseline, Performance, and Long-Term Monitoring, Former Griffiss AFB	Weather: See page 1
Field Tests Performed (Sampling, Field Screening, Chemical Testing, etc.)	
Screened wells and purged groundwater with PID. Sampled groundwater at MW15, MW17, MW14, MW19. Measured pH, temp., cond., ORP, DO, and turbidity of groundwater.	
Work Delays (Due to Weather, Maintenance, Breakdowns, Waiting for Decisions)	
MW15 and MW17 had air bubbles in bladder pumps and lines. Bladder pumps were filled fully and discharged slowly to purge pump and lines of air. ~1.25 hr delay for both wells. See field adjustment sheet.	
Problems Encountered and Deviations From Work Plan	
Air in pumps and lines at MW15 and MW17. See delays above and field adjustment sheet for description.	
Written and Verbal Instruction by the Government	
None.	
Safety Issues	
High winds.	
Planned Activities for Next Work Day	
Return equipment (rented) to rental company.	
Remarks: (Visitors, Completion of Field Work at an AOC, etc.)	
All sampling complete. Samples shipped to Katahdin Analytical via FedEx.	
Site Manager [signature]	Date 4/17/12

Figure 3-5 Daily Activity Summary Form

Page 2 of 2

Daily Activity Summary

Date: Tuesday, September 25, 2012 | Report No.: 1

Project Name: AOC 9 Baseline, Performance, and Long-Term Monitoring, Former Griffiss AFB | Weather: Sunny, 61°F (AM) 73°F (PM)

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
M. Fronckowiak	11.5	EEEPC			
L. Roedl	11.5	EEEPC			

Summary of Activities

Equipment	AOC/Task	Activities Performed
Water level indicator	Measure water levels, surface water sampling, Purge and sample groundwater	- measure water levels in permanent wells.
PID (MiniRAE 3000)		- screen wells when opening, screen purge water.
~~Horiba 22~~ YSI Pro Plus		- measure pH, temp., cond., ORP, and DO
Turbidimeter (LaMotte)		- measure turbidity
GeoControl		- control flow rate of bladderpump

Figure 3-5 Daily Activity Summary Form

Daily Activity Summary

Date: Tuesday, September 25, 2012	Report No.: 1
Project Name: AOC 9 Baseline, Performance, and Long-Term Monitoring, Former Griffiss AFB	Weather: Sunny, 61°F (AM) 73°F (PM)

Field Tests Performed (Sampling, Field Screening, Chemical Testing, etc.)

Screen wells and purge water with PID. Sampled surface water locations (SW01, SW02, SW03). Sampled permanent well MW06. Measured pH, temperature, conductivity, turbidity, and ORP of all samples. Measured DO of groundwater.

Work Delays (Due to Weather, Maintenance, Breakdowns, Waiting for Decisions)

None.

Problems Encountered and Deviations From Work Plan

None.

Written and Verbal Instruction by the Government

None.

Safety Issues

High water levels on one branch of creek due to beaver dam. Potential for ticks.

Planned Activities for Next Work Day

Purge and Sample 4 permanent wells (MW17, MW15, MW14, and MW19). Ship samples to lab via FedEx.

Remarks: (Visitors, Completion of Field Work at an AOC, etc.)

Surface water sampling and water levels complete.

Site Manager [signature]	Date 9/25/12

Figure 3-5 Daily Activity Summary Form

Page 2 of 2

Daily Activity Summary

Date: Wednesday, September 26, 2012 | Report No.: 2

Project Name: AOC 9 Baseline, Performance, and Long-Term Monitoring, Former Griffiss AFB | Weather: Cloudy, Chance of rain 55°F (AM) 70°F (PM)

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
M. Fronckowiak	11	EEEPC			
L. Roedl	11	EEEPC			
A. Darpinian	2.75	USACE			
C. Jerrard	0.25	AFCEE			

Summary of Activities

Equipment	AOC/Task	Activities Performed
Water level indicator	~~measure 9/24/12~~	-measure depth to water
PID (MiniRAE 3000)	Purge and	-screen wells upon opening, screen purge water
YSI Pro Plus	sample	-measure pH, temp., cond., ORP, and DO
Turbidimeter (LaMotte)	groundwater	-measure turbidity
GeoControl		-control flow rate of bladder pump

Figure 3-5 Daily Activity Summary Form

Page 1 of 2

Daily Activity Summary

Date: Wednesday, Sept. 26, 2012	**Report No.:** 2
Project Name: AOC 9 Baseline, Performance, and Long-Term Monitoring, Former Griffiss AFB	**Weather:** 55°F (AM) Cloudy, chance of rain 70°F (PM)

Field Tests Performed (Sampling, Field Screening, Chemical Testing, etc.)

Screen wells and purge water with PID. Sampled permanent wells MW14, MW15, MW17, and MW19. Measured pH, temperature, conductivity, turbidity, ORP, and DO of groundwater.

Work Delays (Due to Weather, Maintenance, Breakdowns, Waiting for Decisions)

Short delays at MW15 and MW17 due to ball being stuck in pump. Had to bring pump up and tap it to release ball. ~40 min delay at MW14 due to air in the lines.

Problems Encountered and Deviations From Work Plan

Air in the lines at MW14. Adjusted all fittings to make sure secure. Air eliminated and purging was able to continue.

Written and Verbal Instruction by the Government

A. Darpinian (USACE) noticed Table 2-1 of work plan said QC samples would change location. As a result, MS/MSD was collected at MW17 and a duplicate collected at MW19.

Safety Issues

None new.

Planned Activities for Next Work Day

No sampling. Return rental equipment on return to Buffalo.

Remarks: (Visitors, Completion of Field Work at an AOC, etc.)

Sampling complete. Samples shipped to lab via FedEx.

Site Manager [signature]	**Date** 9/26/12

Figure 3-5 Daily Activity Summary Form

C Sampling Forms

Groundwater Sampling Form

Project: AOC 9 Baseline/Performance/Long Term Monitoring
Site: AOC 9-Former Griffiss Air Force Base
Well No.: AOC9-MW06
Sample Date: 4/16/12
Sampling Device: QED T1200 bladder pump
Well Depth (feet TOIC): 14.2
Screen Interval (feet BGS): 4.2 - 14.2
Casing Inner Diameter (inches): 2.0
Initial PID Reading (ppm): 0.0

Sample ID: AOC9-MW06PMD04162012
Sample Time: 1640
Sample Tubing: QED teflon-lined polyethylene
Sample Turbidity (NTUs): 2.53
Initial Water Level (Feet TOIC): 6.45
Final Water Level (feet TOIC): 6.31
Casing Type: PVC

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Flow Rate (LPM)	Purge Volume (gallons)	Comments
1530	7.35	7.9	0.381	51.9	1.17	210.6	6.51	700 mL	0	
1535	7.37	9.8	0.383	38.4	2.07	200.0	6.45	200 mL	0.5	
1540	7.38	9.7	0.384	25.2	1.73	193.8	6.35	"	1.6	
1545	7.41	9.3	0.382	14.8	0.94	184.9	6.35	"	~1.0	
1550	7.41	9.5	0.381	9.94	0.70	178.9	6.31	200 mL	2.0	
1555	7.42	9.8	0.381	7.58	0.58	171.6	6.31	200 mL	2.3	
1600	7.42	9.8	0.382	7.31	0.54	167.1	6.31	"	2.6	
1605	7.41	9.4	0.381	5.37	0.66	163.3	6.31	"	2.9	
1610	7.43	9.7	0.381	4.25	0.55	158.5	6.31	"	3.2	
1615	7.42	9.7	0.381	4.19	0.52	154.9	6.31	"	3.5	
1620	7.42	9.8	0.381	3.76	0.53	150.5	6.31	"	3.8	
1625	7.42	9.9	0.380	3.01	0.51	146.6	6.31	"	4.1	
1630	7.42	9.7	0.381	2.85	0.52	144.1	6.31	"	4.4	
1635	7.43	9.9	0.381	2.63	0.52	141.8	6.31	"	4.7	

Key:
°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute
mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.
ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

Figure 3-4 Groundwater Sampling Form

1 well = 1.26
x 3 = 3.78 gallons

Groundwater Sampling Form

Project: AOC 9 Baseline, Performance, Long Term Monitoring
Site: AOC 9-Former Griffiss Air Force Base
Well No.: MW14
Sample Date: 4/17/12
Sampling Device: QED T1200 bladder pump
Well Depth (feet TOIC): 24.0
Screen Interval (feet BGS): 14-24.0
Casing Inner Diameter (inches): 2.0
Initial PID Reading (ppm): 0.0

Sample ID: AOC9-MW14PM04172012 + MS/MSD
Sample Time: 1515
Sample Tubing: QED teflon-lined polyethylene
Sample Turbidity (NTUs): 2.08
Initial Water Level (Feet TOIC): 14.36
Final Water Level (feet TOIC): 14.45
Casing Type: PVC

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Flow Rate (LPM)	Purge Volume (gallons)	Comments
1405	7.03	9.5	0.479	131	2.68	-74.2	14.36	450mL	0	Yellow tint to water.
1410	7.10	10.1	0.436	59.9	0.42	-95.1	14.40	300mL	1.0	
1415	7.14	9.9	0.423	26.2	0.69	-104.5	14.40	"	1.4	
1420	7.16	10.1	0.413	22.1	0.63	-110.9	14.40	"	1.8	
1425	7.16	10.0	0.409	15.4	0.65	-106.4	14.40	"	2.2	
1430	7.18	10.0	0.400	11.1	0.84	-106.6	14.40	"	2.6	
1435	7.19	10.1	0.398	9.37	0.52	-104.3	14.40	"	3.0	
1440	7.20	10.1	0.389	7.35	0.24	-111.2	14.40	"	3.4	
1445	7.22	10.0	0.387	6.19	0.42	-109.8	14.40	"	3.8	
1450	7.23	10.0	0.384	4.92	0.42	-117.0	14.40	300mL	4.2	
1455	7.23	10.0	0.382	4.34	0.44	-112.9	14.40	"	4.6	
1500	7.25	10.0	0.379	3.62	0.22	-109.9	14.40	"	5.0	
1505	7.25	9.9	0.377	2.92	0.24	-113.9	14.40	"	5.4	
1510	7.25	9.8	0.377	3.01	0.24	-113.8	14.40	"	5.8	

[signature] 4/17/12

Key:
°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute
mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.
ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

Figure 3-4 Groundwater Sampling Form

1 well volume = 1.57
x3 = 4.71

Page 1 of 1

Groundwater Sampling Form

Project: AOC 9 Baseline, Performance, Long Term Monitoring
Site: AOC 9-Former Griffiss Air Force Base
Well No.: MW15
Sample Date: 4/17/12
Sampling Device: QED T1200 bladder pump
Well Depth (feet TOIC): 14.0
Screen Interval (feet BGS): 9-14.0
Casing Inner Diameter (inches): 2.0
Initial PID Reading (ppm): 0.0

Sample ID: AOC9-MW15PM04172012
Sample Time: 1225
Sample Tubing: QED teflon-lined polyethylene
Sample Turbidity (NTUs): 9.53
Initial Water Level (Feet TOIC): 3.05 / 3.09
Final Water Level (feet TOIC): 3.15
Casing Type: PVC

Time	pH	Temperature (°C)	Conductivity (ps/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Flow Rate (LPM)	Purge Volume (gallons)	Comments
1130	7.13	9.0	0.547	105.5	0.65	39.6	3.09	600mL	~2.0	Volume purged due to air in lines/ bladder pump.
1135	7.09	9.6	0.557	52.2	0.42	45.3	3.11	200mL	2.3	
1140	7.09	9.7	0.553	38.1	0.41	48.9	3.09	"	2.6	
1145	7.10	9.5	0.545	34.5	0.31	49.0	3.15	400mL	3.0	
1150	7.10	9.1	0.543	18.5	0.22	44.8	3.15	"	4.0	
1155	7.09	9.2	0.544	18.3	0.23	41.4	3.15	"	4.5	
1200	7.10	9.1	0.542	13.7	0.22	37.1	3.15	"	5.0	
1205	7.11	9.2	0.540	11.0	0.19	33.0	3.15	"	5.5	
1210	7.11	9.2	0.543	10.47	0.19	29.8	3.15	"	6.0	
1215	7.10	9.2	0.540	9.75	0.19	26.3	3.15	"	6.5	

4/17/12

Key:
°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute
mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.
ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

Figure 3-4 Groundwater Sampling Form

1 well volume = 1.78
X3 = 5.34

Groundwater Sampling Form

Project: AOC 9 Baseline, Performance, Long Term Monitoring
Site: AOC 9-Former Griffiss Air Force Base
Well No.: MW17
Sample Date: 4/17/12
Sampling Device: QED T1200 bladder pump
Well Depth (feet TOIC): 14.0
Screen Interval (feet BGS): 9-14.0
Casing Inner Diameter (inches): 2.0
Initial PID Reading (ppm): 0.0

Sample ID: AOC9-MW17PM04172012 / AOC9-MW17/DPM04172012
Sample Time: 1035
Sample Tubing: QED teflon-lined polyethylene
Sample Turbidity (NTUs): 1.58
Initial Water Level (Feet TOIC): 3.25 / 4.52
Final Water Level (feet TOIC): 3.75
Casing Type: PVC

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Flow Rate (LPM)	Purge Volume (gallons)	Comments
0940	7.62	7.7	0.370	59.1	4.86	-89.7	4.52	380mL	~1.0	Volume purged due
0945	7.67	8.0	0.368	50.3	2.87	-126.2	4.45	150mL	2.5	to air in lines, etc
0950	7.67	8.4	0.371	30.7	1.22	-138.9	4.01	190mL	3.0	
0955	7.61	7.8	0.388	40.2	0.29	-149.8	4.45	450mL	3.5	
1000	7.61	7.8	0.390	26.3	0.16	-154.4	4.75	"	4.0	
1005	7.60	7.8	0.397	14.7	0.17	-155.6	4.75	"	4.5	
1010	7.58	7.8	0.401	8.38	0.14	-155.7	4.75	"	5.0	
1015	7.56	7.8	0.403	5.81	0.19	-156.5	4.75	"	5.5	
1020	7.55	7.8	0.404	4.18	0.17	-156.3	4.75	"	6.0	
1025	7.55	7.9	0.405	3.16	0.17	-154.8	4.75	"	6.5	

MH Hanson Geng 4/17/12

Key:
°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute
mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.
ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

Figure 3-4 Groundwater Sampling Form

1 well volume = 1.55
x3 = 4.65

Groundwater Sampling Form

Project: AOC 9 Baseline, Performance, Long Term Monitoring
Site: AOC 9-Former Griffiss Air Force Base
Well No.: MW19
Sample Date: 4/17/12
Sampling Device: QED T1200 bladder pump
Well Depth (feet TOIC): 19.0
Screen Interval (feet BGS): 9-19.0
Casing Inner Diameter (inches): 2.0
Initial PID Reading (ppm): 0.0

Sample ID: AOC9-MW19PM04172012
Sample Time: 1705
Sample Tubing: QED teflon-lined polyethylene
Sample Turbidity (NTUs): 46.0
Initial Water Level (Feet TOIC): 9.40
Final Water Level (feet TOIC): 9.42
Casing Type: PVC

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Flow Rate (LPM)	Purge Volume (gallons)	Comments
1545	6.74	8.9	1.26	148	1.61	-12.4	9.40	300mL	0	yellow tint to
1550	6.82	9.2	0.91	680	2.82	-3.9	9.41	"	0.4	water
1555	6.86	9.2	0.83	126	3.40	1.0	9.46	"	0.8	
1600	6.89	9.3	0.78	140	3.69	4.1	9.46	"	1.2	
1605	6.92	9.0	0.73	109.5	4.06	7.6	9.46	"	1.6	
1610	6.96	9.1	0.688	100.9	4.31	9.9	9.45	"	2.5	
1615	6.97	9.1	0.671	87.5	4.38	10.9	9.45	"	3.0	
1620	6.99	9.1	0.658	83.4	4.49	12.4	9.46	"	3.5	
1625	7.00	9.2	0.644	73.6	4.54	14.2	9.46	"	4.0	
1630	7.04	9.2	0.624	70.1	4.59	14.1	9.43	"	4.5	
1635	7.04	9.1	0.620	66.6	4.66	14.9	9.42	"	5.0	
1640	7.06	9.1	0.615	62.6	4.69	15.0	9.42	"	5.5	
1645	7.07	9.1	0.611	56.5	4.86	15.8	9.42	"	6.0	
1650	7.09	9.0	0.598	54.2	4.86	15.9	9.42	"	6.5	
1655	7.12	9.2	0.583	53.9	4.89	16.5	9.42	"	7.0	
1700	7.10	9.2	0.592	52.0	4.96	15.7	9.42	300mL	7.5	
~~1705~~										

Key:
°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute
mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.
ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

Figure 3-4 Groundwater Sampling Form

1 well volume = 1.56
X 3 = 4.68
X 5 =

Surfacewater Sampling Form

Project: AOC 9 Baseline, Performance, Long Term Monitoring
Site: AOC 9-Former Griffiss Air Force Base
Well No.: NA
Sample Date: 4/16/12
Sampling Device: clean jar by hand
Well Depth (feet TOIC): NA
Screen Interval (feet BGS): NA
Casing Inner Diameter (inches):NA
Initial PID Reading (ppm): NA

Sample ID: AOC9-SW01PM04162012
Sample Time: 1425
Sample Tubing: NA
Sample Turbidity (NTUs): 4.42
Initial Water Level (Feet TOIC):NA
Final Water Level (feet TOIC):NA
Casing Type: NA

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Flow Rate (LPM)	Purge Volume (gallons)	Comments
1425	7.30	26.5	0.325	4.42	NA	154.9	NA	NA	NA	—

M Manning 4/16/12

Key:
°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute
mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.
ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

Figure 3-4 Surfacewater Sampling Form

Surfacewater Sampling Form

Project: AOC 9 Baseline, Performance, Long Term Monitoring
Site: AOC 9-Former Griffiss Air Force Base
Well No.: NA
Sample Date: 4/16/12
Sampling Device: clean jar by hand
Well Depth (feet TOIC): NA
Screen Interval (feet BGS): NA
Casing Inner Diameter (inches):NA
Initial PID Reading (ppm): NA

Sample ID: AOC9-SW02PM04162012
Sample Time: 1415
Sample Tubing: NA
Sample Turbidity (NTUs): 4.59
Initial Water Level (Feet TOIC):NA
Final Water Level (feet TOIC):NA
Casing Type: NA

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Flow Rate (LPM)	Purge Volume (gallons)	Comments
1415	7.85	24.5	0.311	4.59	NA	143.6	NA	NA	NA	—

Key:
°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute
mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.
ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

Figure 3-4 Surfacewater Sampling Form

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Surfacewater Sampling Form

Project: AOC 9 Baseline, Performance, Long Term Monitoring
Site: AOC 9-Former Griffiss Air Force Base
Well No.: NA
Sample Date: 4/16/12
Sampling Device: clean jar by hand
Well Depth (feet TOIC): NA
Screen Interval (feet BGS): NA
Casing Inner Diameter (inches):NA
Initial PID Reading (ppm): NA

Sample ID: AOC9-SW03PM04162012
Sample Time: 1405
Sample Tubing: NA
Sample Turbidity (NTUs): 2.04
Initial Water Level (Feet TOIC):NA
Final Water Level (feet TOIC):NA
Casing Type: NA

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Flow Rate (LPM)	Purge Volume (gallons)	Comments
1405	7.80	20.5	0.360	2.04	NA	151.3	NA	NA	NA	—

Key:
°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute
mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.
ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

Figure 3-4 Surfacewater Sampling Form

Groundwater Sampling Form

Project: AOC 9 Baseline, ~~Performance~~, Long Term Monitoring
Site: AOC 9-Former Griffiss Air Force Base
Well No.: MW-06
Sample Date: 9/25/12
Sampling Device: QED T1200 bladder pump
Well Depth (feet TOIC): 14.2
Screen Interval (feet BGS): 4.2 - 14.2
Casing Inner Diameter (inches): 2.0
Initial PID Reading (ppm): 0.0

Sample ID: AOC9-MW06PM092512
Sample Time: 1650
Sample Tubing: QED teflon-lined polyethylene
Sample Turbidity (NTUs): 1.08
Initial Water Level (Feet TOIC): 6.80
Final Water Level (feet TOIC): 6.98
Casing Type: PVC

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Flow Rate (LPM)	Purge Volume (gallons)	Comments
1555	7.16	15.1	0.448	8.62	3.07	177.6	6.80	—	0	
1600	7.18	14.7	0.470	7.88	1.04	159.7	6.98	250 mL	0.5	
1605	7.17	14.6	0.474	6.33	0.75	154.9	6.98	"	1.0	PID = 0.0
1610	7.15	14.5	0.476	5.14	0.56	152.5	6.98	"	1.5	
1615	7.17	14.5	0.477	3.00	0.46	150.0	6.98	"	1.8	
1620	7.17	14.5	0.477	2.24	0.41	147.9	6.98	"	2.1	
1625	7.18	14.4	0.477	1.64	0.39	146.0	6.98	"	2.5	
1630	7.18	14.4	0.477	1.45	0.39	144.8	6.98	"	2.8	
1635	7.19	14.4	0.476	1.25	0.36	143.9	6.98	300 mL	3.5	
1640	7.19	14.4	0.476	1.15	0.36	143.0	6.98	250 mL	3.8	PID = 0.0

9/25/12

Key:
°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute
mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.
ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

Figure 3-4 Groundwater Sampling Form

1 well volume = 1.2 gallons
x 3 = 3.6 gallons

Groundwater Sampling Form

Project: AOC 9 Baseline (Performance) Long Term Monitoring
Site: AOC 9-Former Griffiss Air Force Base
Well No.: MW14
Sample Date: 09/26/12
Sampling Device: QED T1200 bladder pump
Well Depth (feet TOIC): 24.0
Screen Interval (feet BGS): 14-24
Casing Inner Diameter (inches): 2.0
Initial PID Reading (ppm): 0.0

Sample ID: AOC9-MW14PM092612 ~~+ MS/MSD~~ ME 9/26/12
Sample Time: 1320
Sample Tubing: QED teflon-lined polyethylene
Sample Turbidity (NTUs): 14.5
Initial Water Level (Feet TOIC): 15.35
Final Water Level (feet TOIC): 15.44
Casing Type: PVC

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Flow Rate (LPM)	Purge Volume (gallons)	Comments
1135	7.06	14.9	0.379	4.82	6.19	52.7	15.35	—	0	Air in lines.
1215	7.17	13.8	0.348	82.4	1.41	-98.6	15.44	275ml	4	Begin purging after fixing
1220	7.16	13.9	0.355	6007	0.89	-102.6	15.44	"	4.3	air in lines
1225	7.17	13.9	0.355	52	0.92	-103.0	15.44	"	4.8	
1230	7.16	14.0	0.351	95.4	0.91	-102.7	15.44	"	5.3	PID=0.0
1235	7.17	14.0	0.352	76.9	0.70	-105.8	15.44	"	5.8	
1240	7.16	14.1	0.357	73.9	0.65	-102.8	15.44	"	6.3	
1245	7.17	14.5	0.352	54.9	0.58	-104.3	15.44	"	6.8	
1250	7.16	13.7	0.355	53.7	0.53	-104.0	15.40	350ml	7.0	
1255	7.17	13.5	0.354	36.2	0.41	-109.5	15.40	"	7.5	
1300	7.17	13.5	0.355	29.4	0.39	-109.9	15.44	"	8.0	
1305	7.18	13.5	0.354	22.4	0.37	-112.7	15.44	"	8.5	
1310	7.19	13.5	0.353	20.8	0.36	-113.8	15.44	"	9.0	
1315	7.18	13.5	0.354	20.1	0.35	-113.1	15.44	"	9.5	PID=0.0

Key:
°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute
mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.
ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

9/26/12

Figure 3-4 Groundwater Sampling Form

1 well volume = 1.4 gallons
x 3 = 4.2 gallons

Groundwater Sampling Form

Project: AOC 9 Baseline, (Performance,) Long Term Monitoring
Site: AOC 9-Former Griffiss Air Force Base
Well No.: MW15
Sample Date: 09/26/12
Sampling Device: QED T1200 bladder pump
Well Depth (feet TOIC): 14.0
Screen Interval (feet BGS): 9-14
Casing Inner Diameter (inches): 2.0
Initial PID Reading (ppm): 0.0

Sample ID: AOC9-MW15PM092612
Sample Time: 1100
Sample Tubing: QED teflon-lined polyethylene
Sample Turbidity (NTUs): 3.49
Initial Water Level (Feet TOIC): 3.05
Final Water Level (feet TOIC): 3.15
Casing Type: PVC

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Flow Rate (LPM)	Purge Volume (gallons)	Comments
1010	7.18	15.0	0.512	48.5	7.53	104.4	3.05	125 ml	0	
1015	7.08	14.4	0.468	22.6	1.02	-99.3	3.21	–	0.8	Still adjusting flow rate
1020	7.08	14.5	0.473	11.6	0.19	-117.7	3.21	300 ml	2.0	
1025	7.08	14.4	0.470	9.56	0.14	-122.8	3.21	"	2.3	
1030	7.08	14.4	0.472	8.21	0.16	-123.0	3.14	"	2.8	PID=0.0
1035	7.08	14.4	0.470	7.99	0.14	-124.6	3.21	"	3.1	
1040	7.08	14.4	0.470	6.25	0.12	-129.7	3.19	"	3.9	
1045	7.07	14.4	0.473	5.48	0.13	-132.4	3.15	"	4.4	
1050	7.08	14.5	0.473	5.11	0.11	-133.1	3.21	"	5.0	
1055	7.08	14.5	0.470	4.93	0.11	-133.9	3.21	"	5.6	PID = 0.0

Key:
°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute
mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.
ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

Figure 3-4. Groundwater Sampling Form

1 well volume = 1.8 gallons
x3 = 5.4 gallons

Groundwater Sampling Form

Project: AOC 9 Baseline, Performance, Long Term Monitoring
Site: AOC 9-Former Griffiss Air Force Base
Well No.: MW17
Sample Date: 9/26/12
Sampling Device: QED T1200 bladder pump
Well Depth (feet TOIC): 14.0
Screen Interval (feet BGS): 9-14
Casing Inner Diameter (inches): 2.0
Initial PID Reading (ppm): 0.0

Sample ID: AOC9-MW17PMD092612 ~~+ dup~~ 9/26/12 + MS/MSD
Sample Time: 0945
Sample Tubing: QED teflon-lined polyethylene
Sample Turbidity (NTUs): 9.36
Initial Water Level (Feet TOIC): 2.92
Final Water Level (feet TOIC): 3.35
Casing Type: PVC

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Flow Rate (LPM)	Purge Volume (gallons)	Comments
~~0830~~	~~7.53~~	~~14.1~~	~~0.389~~		~~7.77~~	~~170.9~~	2.92	—	0	MF Pump not working properly
0840	7.50	13.3	0.394	17.4	0.43	-52.3	4.45	425ml	1.0	Drop in water level to due readjust pump and rates.
0845	7.50	13.3	0.394	23.8	0.29	-67.7	4.09	300ml	1.9	
0850	7.51	13.3	0.394	27.9	0.20	-82.1	3.80	300ml	2.5	
0855	7.50	13.3	0.393	25.4	0.22	-88.6	3.76	"	2.8	PID = 0.0
0900	7.50	13.3	0.394	22.4	0.17	-91.0	3.75	"	3.0	
0905	7.49	13.3	0.395	19.8	0.16	-95.7	3.75	"	3.3	
0910	7.50	13.3	0.395	17.7	0.16	-89.6	3.75	"	3.9	
0915	7.50	13.4	0.397	25.5	0.13	-97.8	3.75	"	4.3	PID = 0.0
0920	7.49	13.3	0.399	18.2	0.12	-97.7	3.75	"	4.8	
0925	7.48	13.3	0.403	14.0	0.12	-100.0	3.75	"	5.3	
0930	7.48	13.3	0.407	12.7	0.11	-101.9	3.75	"	5.8	
0935	7.47	13.3	0.409	12.9	0.11	-104.0	3.75	"	6.3	PID = 0.0

M Stevens 9/26/12

Key:
°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute
mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.
ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

Figure 3-4 Groundwater Sampling Form

1 well volume = 1.8 gallons
X 3 = 5.4 gallons

Groundwater Sampling Form

Project: AOC 9 Baseline, Performance, Long Term Monitoring
Site: AOC 9-Former Griffiss Air Force Base
Well No.: MW19
Sample Date: 9/26/12
Sampling Device: QED T1200 bladder pump
Well Depth (feet TOIC): 19.0
Screen Interval (feet BGS): 9-19
Casing Inner Diameter (inches): 2.0
Initial PID Reading (ppm): 2.0

Sample ID: AOC9-MW19PM092612 + dupe
Sample Time: 1610
Sample Tubing: QED teflon-lined polyethylene
Sample Turbidity (NTUs): 9.01
Initial Water Level (Feet TOIC): 11.00
Final Water Level (feet TOIC): 11.01
Casing Type: PVC

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Flow Rate (LPM)	Purge Volume (gallons)	Comments
1446	6.34	20.0	0.672	23.0	1.88	63.9	11.00	still adjusting	0	
1451	6.56	18.3	0.99	49.8	1.58	69.6	11.00	200 ml	0.5	
1456	6.62	17.7	0.81	37.9	2.64	55.5	11.04	425 ml	1.0	
1501	6.67	17.7	0.71	31.7	3.29	56.6	11.03	"	1.4	
1506	6.74	17.6	0.60	23.6	3.96	58.2	11.00	"	2.1	PID=0.0
1511	6.76	17.5	0.59	24.5	4.08	60.7	11.03	"	2.5	
1516	6.79	17.5	0.554	18.4	4.34	62.0	11.02	"	3.0	
1521	6.83	17.5	0.528	17.6	4.41	63.1	11.02	"	3.5	
1526	6.86	17.5	0.507	14.9	4.58	63.0	11.02	"	4.0	
1531	6.88	17.5	0.500	13.3	4.61	62.7	11.01	"	4.5	PID=0.0
1536	6.91	17.4	0.483	11.9	4.66	62.4	11.01	"	5.0	
1541	6.92	17.4	0.477	11.1	4.75	61.7	11.01	"	5.5	
1546	6.94	17.4	0.461	10.6	4.84	60.5	11.01	"	6.0	
1551	6.96	17.4	0.455	10.9	4.84	60.7	11.01	"	6.5	
1556	6.97	17.4	0.449	10.9	4.92	59.9	11.01	"	7.0	PID=0.0

Key:
°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute
mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.
ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

9/26/12

Figure 3-4 Groundwater Sampling Form

1 well volume = 1.3 gallons
x3 = 3.9 gallons

Surfacewater Sampling Form

Project: AOC 9 Baseline, Performance, Long Term Monitoring
Site: AOC 9-Former Griffiss Air Force Base
Well No.: NA
Sample Date: 9/25/12
Sampling Device: clean jar by hand
Well Depth (feet TOIC): NA
Screen Interval (feet BGS): NA
Casing Inner Diameter (inches):NA
Initial PID Reading (ppm): NA

Sample ID: AOC9-SW01PM092512
Sample Time: 1405
Sample Tubing: NA
Sample Turbidity (NTUs): 3.42
Initial Water Level (Feet TOIC):NA
Final Water Level (feet TOIC):NA
Casing Type: NA

Time	pH	Temperature (C)	Conductivity (ps/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Flow Rate (LPM)	Purge Volume (gallons)	Comments
1405	7.32	18.7	0.442	3.42	NA	135.8	NA	NA	NA	

Key:
°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute
mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.
ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

[signature] 9/25/12

Figure 3-4 Surfacewater Sampling Form

Surfacewater Sampling Form

Project: AOC 9 Baseline/Performance/Long Term Monitoring
Site: AOC 9-Former Griffiss Air Force Base
Well No.: NA
Sample Date: 9/25/12
Sampling Device: clean jar by hand
Well Depth (feet TOIC): NA
Screen Interval (feet BGS): NA
Casing Inner Diameter (inches):NA
Initial PID Reading (ppm): NA

Sample ID: AOC9-SW02PM092512
Sample Time: 1355
Sample Tubing: NA
Sample Turbidity (NTUs): 4.92
Initial Water Level (Feet TOIC):NA
Final Water Level (feet TOIC):NA
Casing Type: NA

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Flow Rate (LPM)	Purge Volume (gallons)	Comments
1355	7.23	18.5	0.416	4.92	NA	153.8	NA	NA	NA	

Key:
°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute
mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.
ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

9/25/12

Figure 3-4 Surfacewater Sampling Form

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Surfacewater Sampling Form

Project: AOC 9 Baseline, Performance, Long Term Monitoring
Site: AOC 9-Former Griffiss AF Force Base
Well No.: NA
Sample Date: 9/25/12
Sampling Device: clean jar by hand
Well Depth (feet TOIC): NA
Screen Interval (feet BGS): NA
Casing Inner Diameter (inches): NA
Initial PID Reading (ppm): NA

Sample ID: AOC9-SW03PM092512
Sample Time: 1340
Sample Tubing: NA
Sample Turbidity (NTUs): 1.41
Initial Water Level (Feet TOIC): NA
Final Water Level (feet TOIC): NA
Casing Type: NA

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Flow Rate (LPM)	Purge Volume (gallons)	Comments
1340	6.95	16.5	0.401	1.41	NA	92.0	NA	NA	NA	Beaver dam ~30ft. upstream

Key:
°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute
mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.
ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

9/25/12

Figure 3-4 Surfacewater Sampling Form

D Photolog

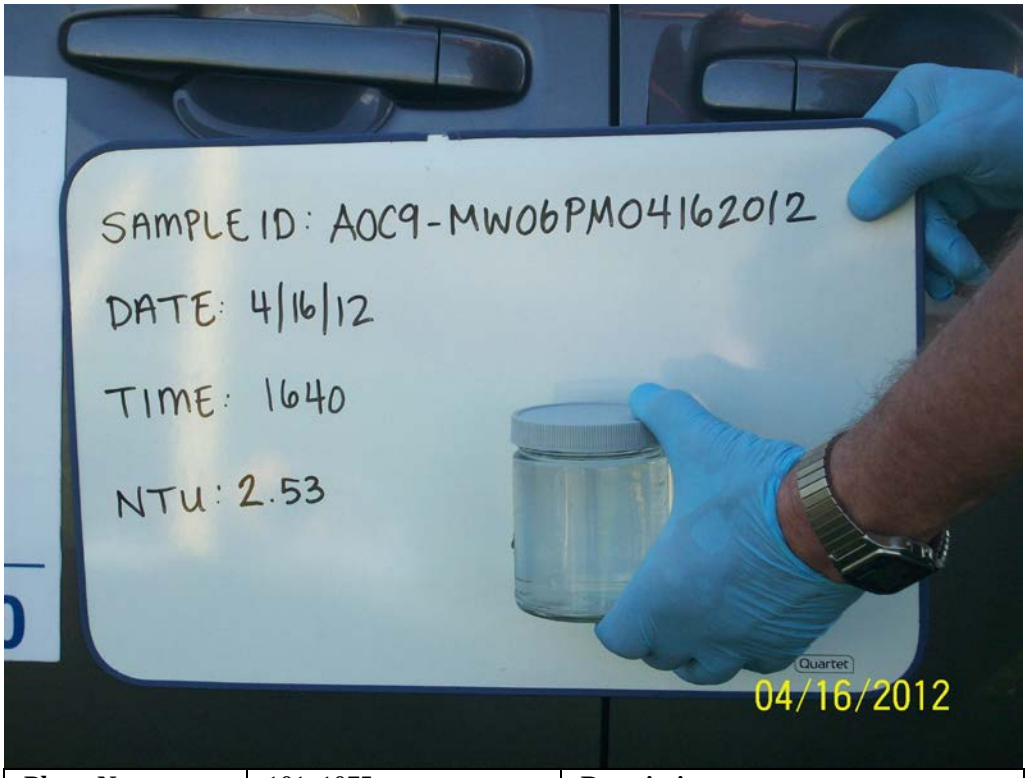


Photo No.:	101_1075	**Description:** Sample: AOC9-MW06PM04162012
Date:	4/16/2012	
Photographer:	M. Horanburg	

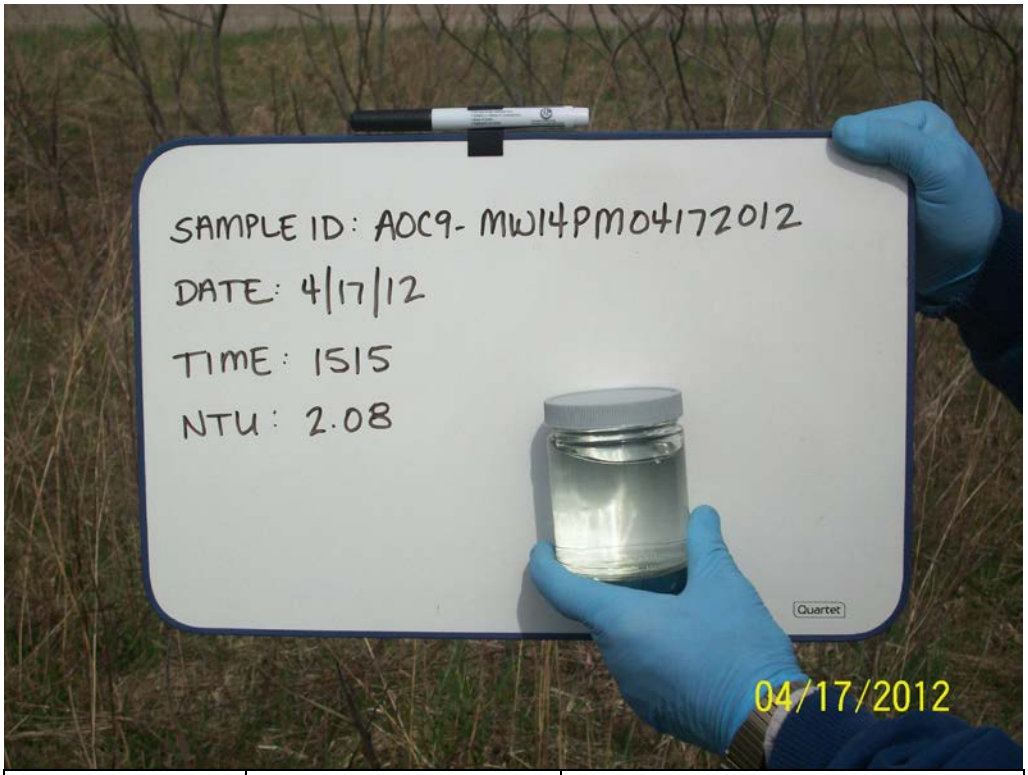


Photo No.:	101_1080	**Description:** Sample: AOC9-MW14PM04172012
Date:	4/17/2012	
Photographer:	M. Horanburg	

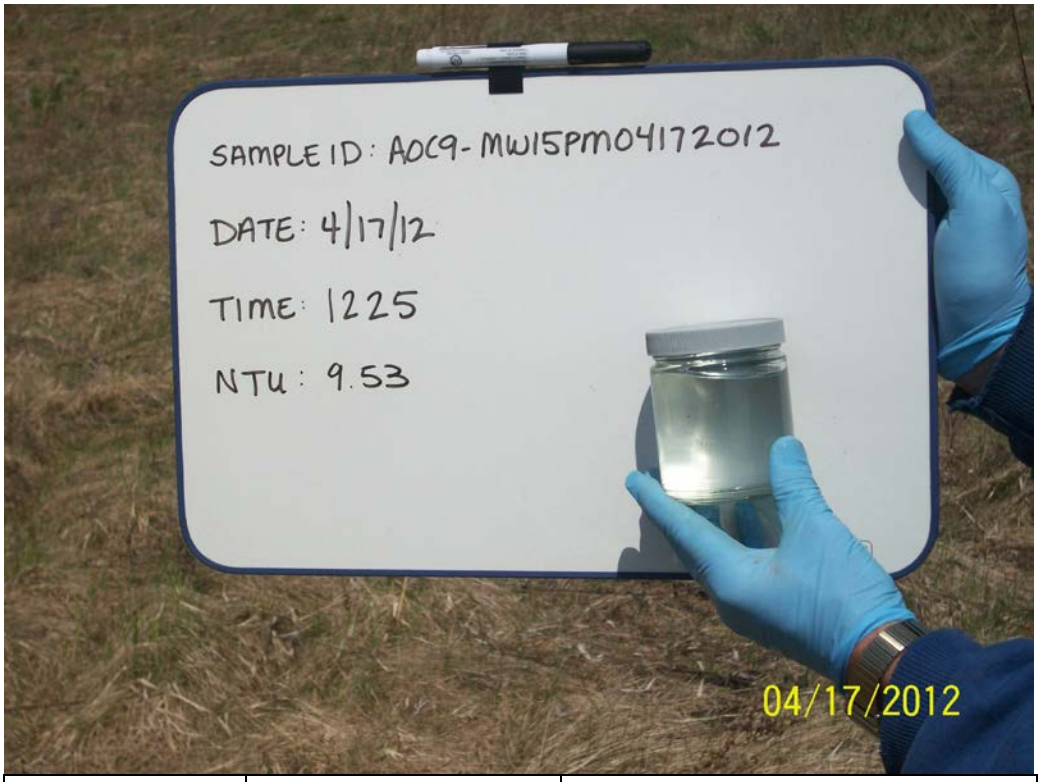


Photo No.:	101_1079	**Description:** Sample: AOC9-MW15PM04172012
Date:	4/17/2012	
Photographer:	M. Horanburg	

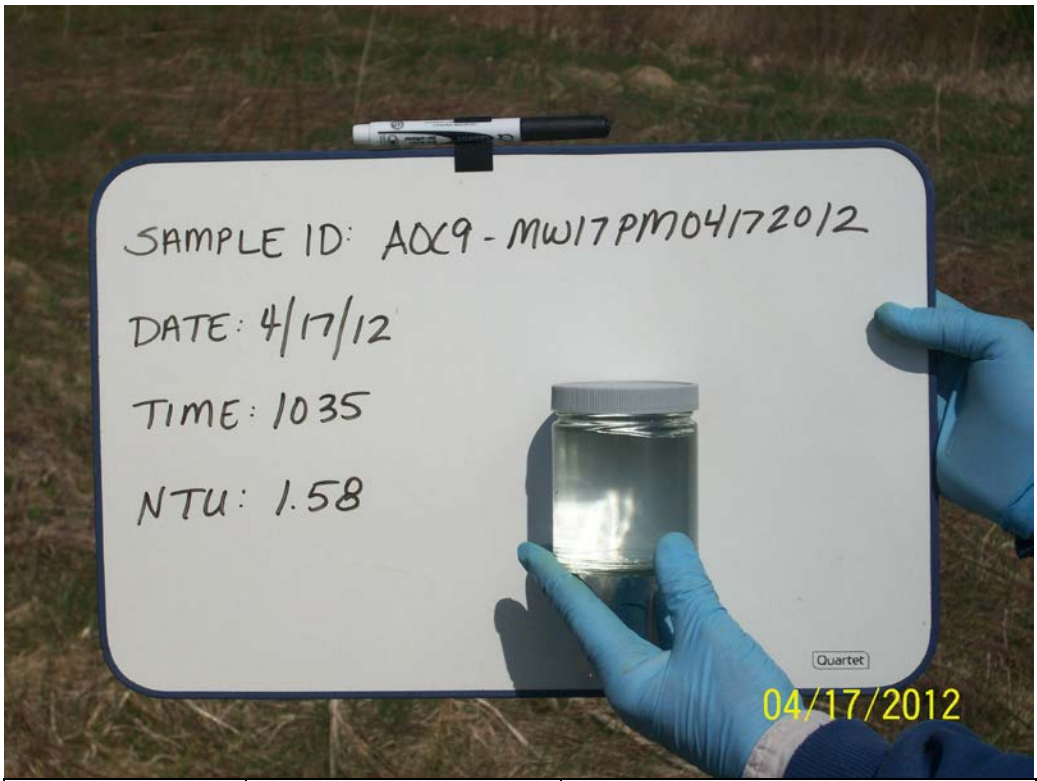


Photo No.:	101_1076	**Description:** Sample: AOC9-MW17PM04172012
Date:	4/17/2012	
Photographer:	M. Horanburg	

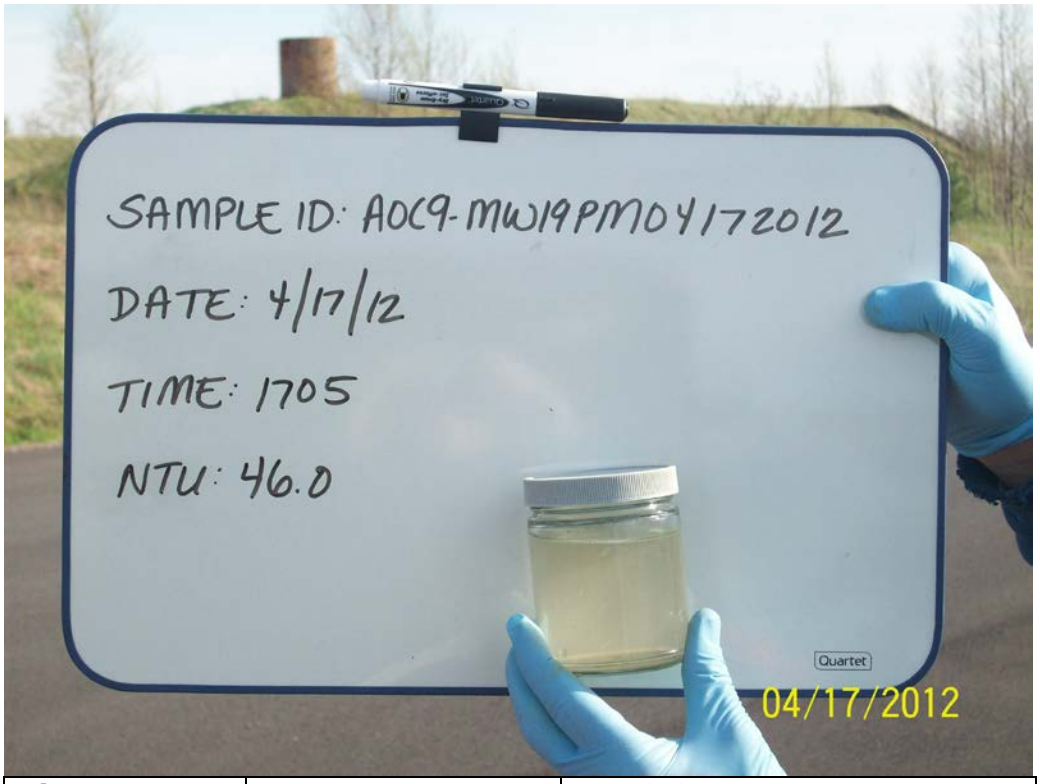


Photo No.:	101_1082	**Description:** Sample: AOC9-MW19PM04172012
Date:	4/17/2012	
Photographer:	M. Horanburg	

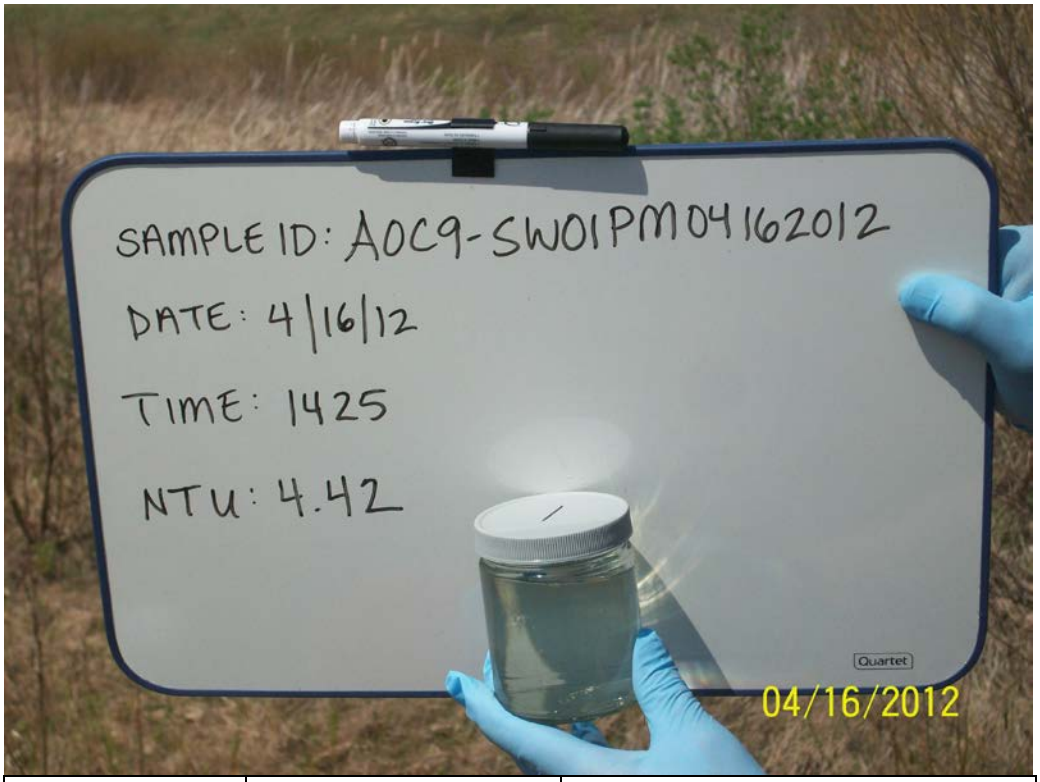


Photo No.:	101_1074	**Description:** Sample: AOC9-SW01PM04162012
Date:	4/16/2012	
Photographer:	M. Horanburg	

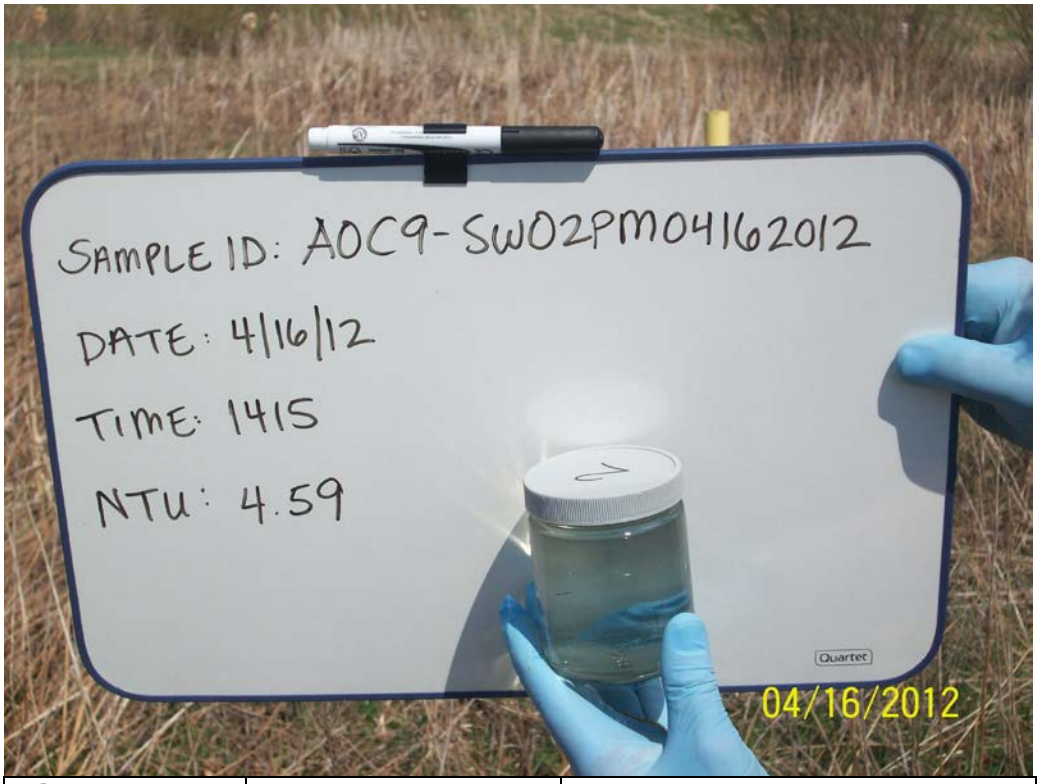


Photo No.:	101_1073	**Description:** Sample: AOC9-SW02PM04162012
Date:	4/16/2012	
Photographer:	M. Horanburg	

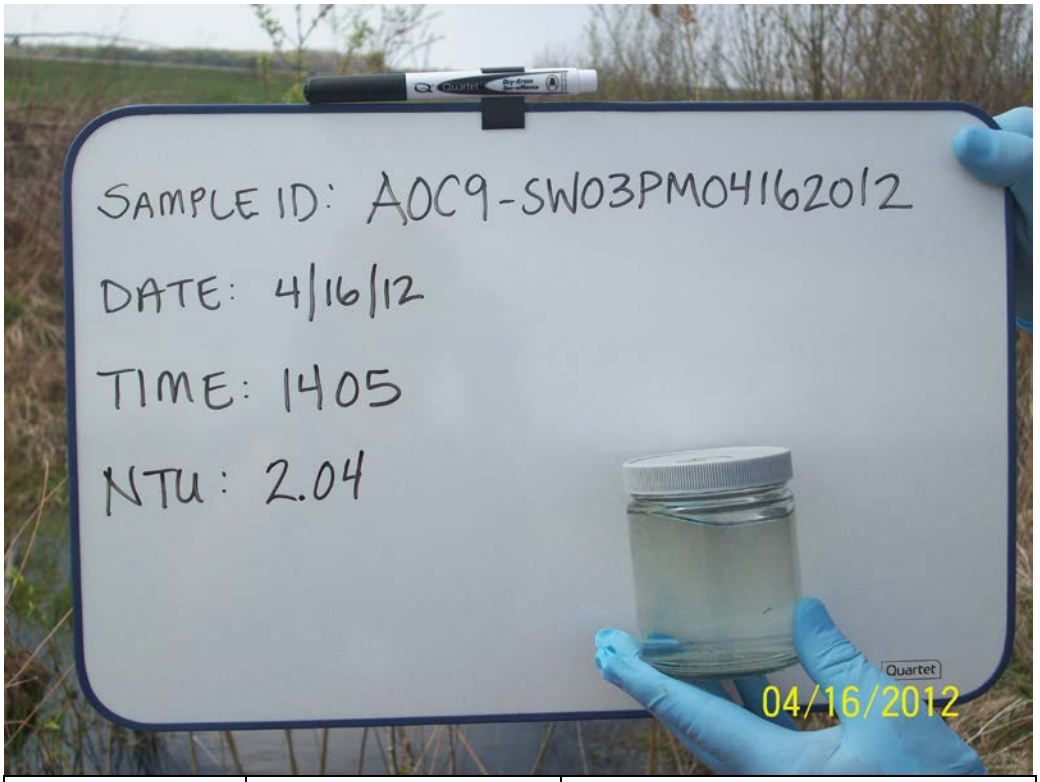


Photo No.:	101_1071	**Description:** Sample: AOC9-SW03PM04162012
Date:	4/16/2012	
Photographer:	M. Horanburg	

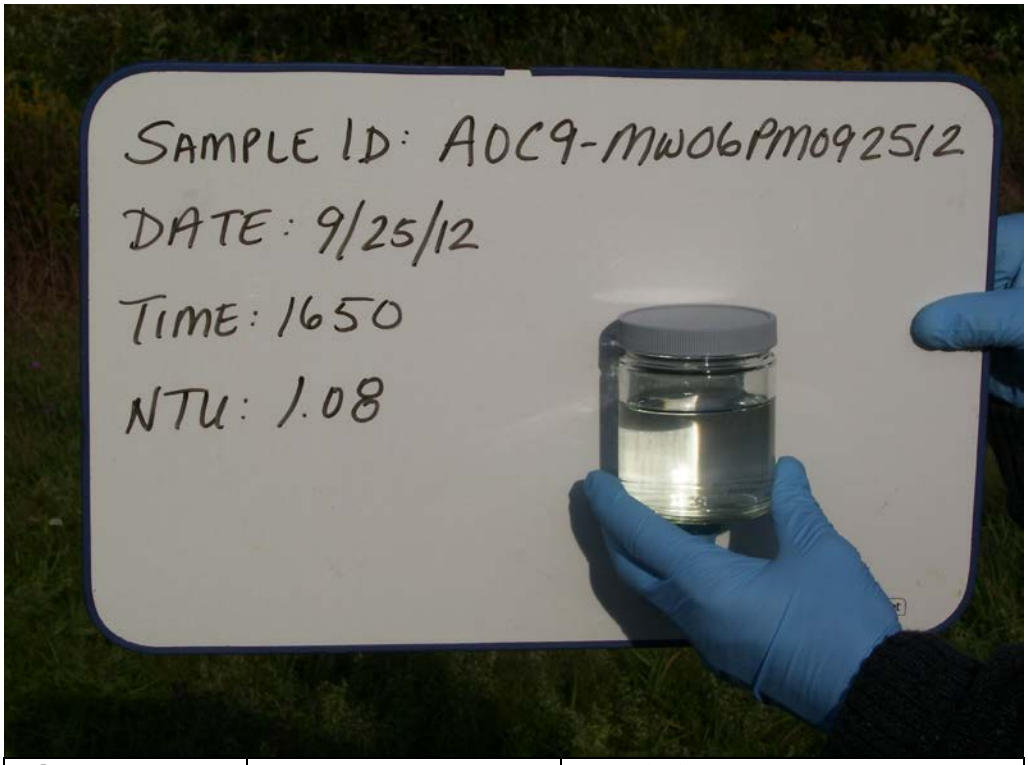


Photo No.:	102_1611	**Description:** Sample: AOC9-MW06PM092512
Date:	9/25/2012	
Photographer:	M. Fronckowiak	

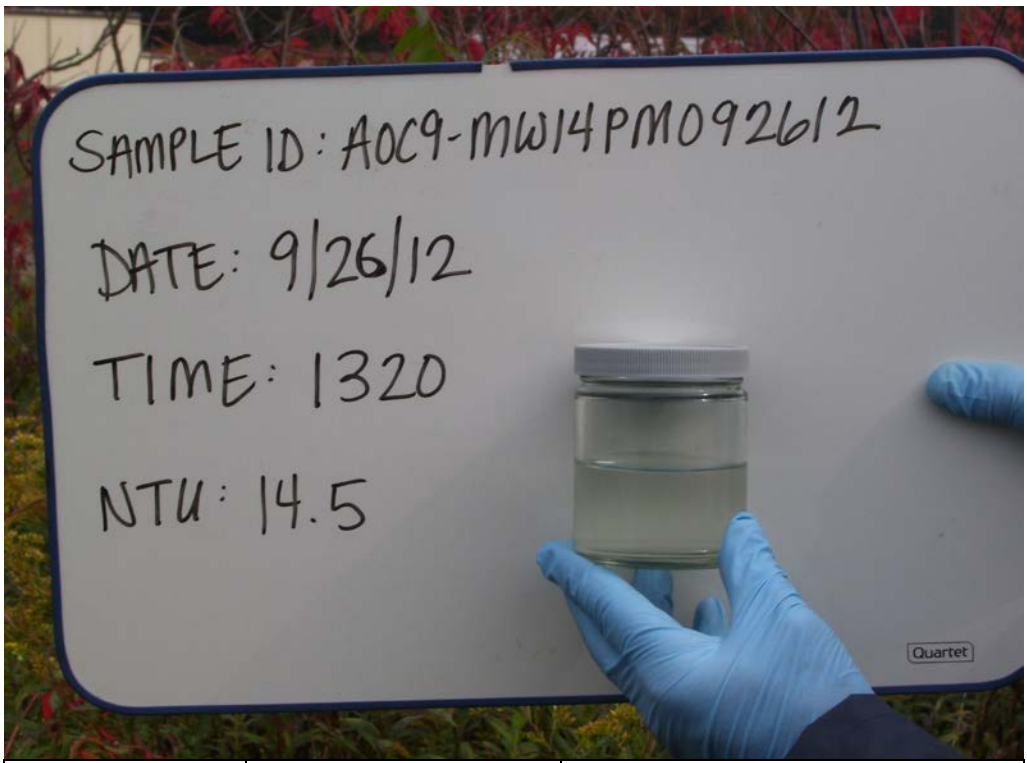


Photo No.:	102_1620	**Description:** Sample: AOC9-MW14PM092612
Date:	9/26/2012	
Photographer:	M. Fronckowiak	

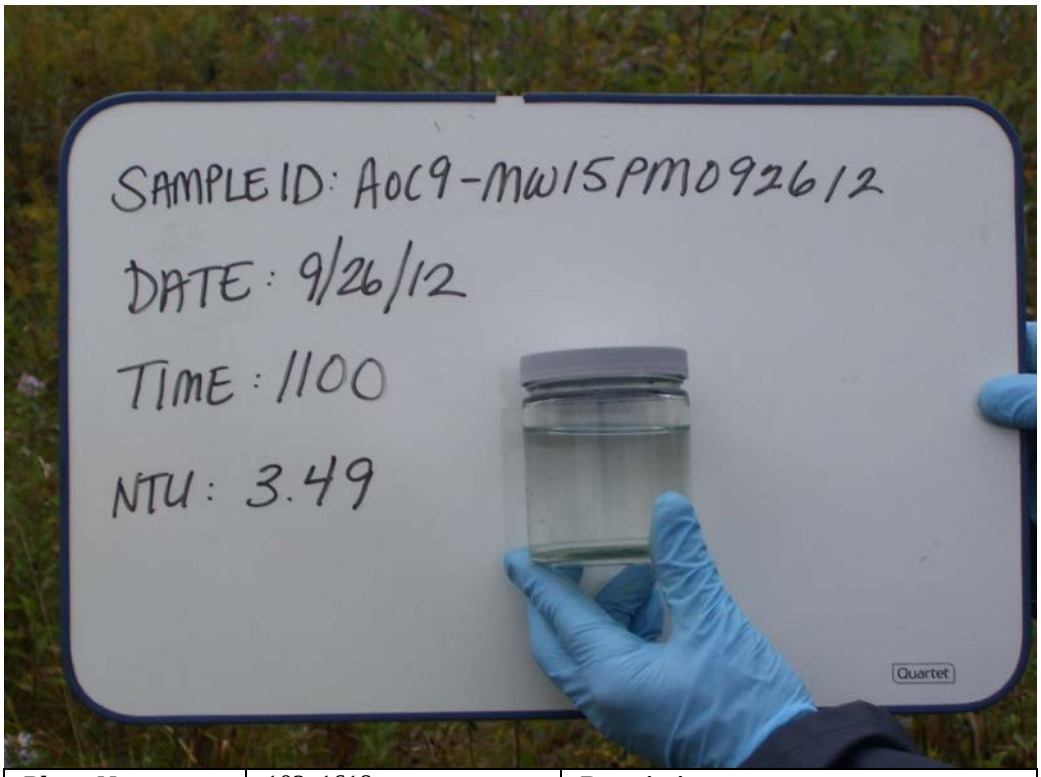


Photo No.:	102_1618	**Description:** Sample: AOC9-MW15PM092612
Date:	9/26/2012	
Photographer:	M. Fronckowiak	

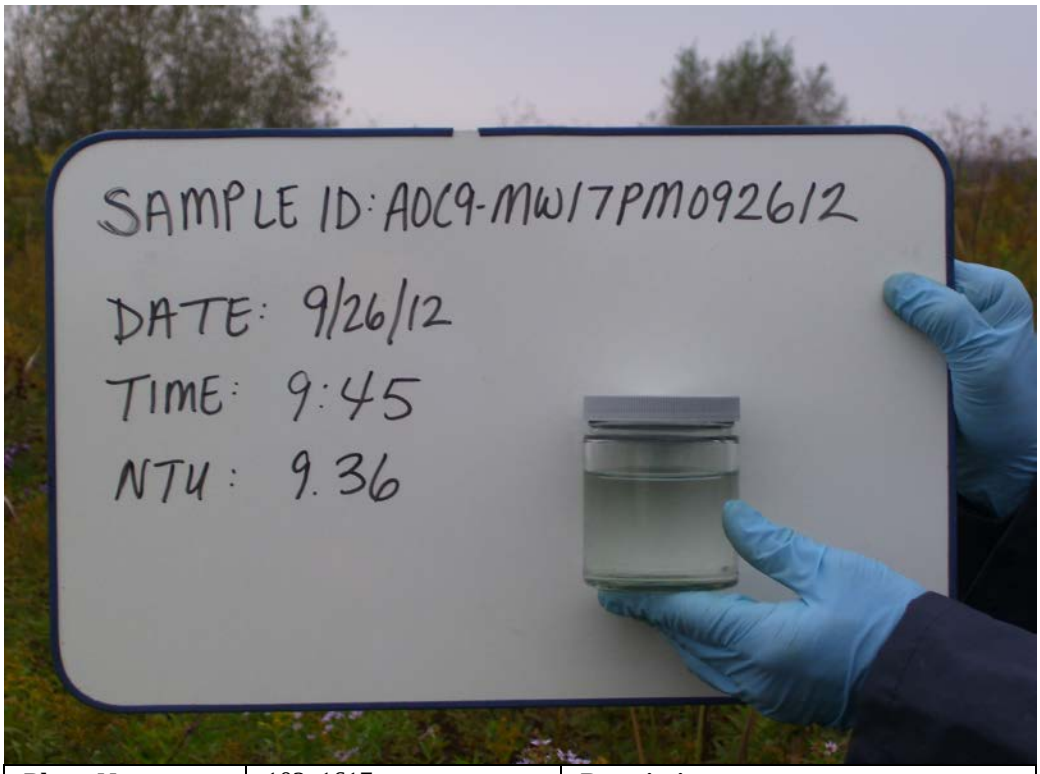


Photo No.:	102_1617	**Description:** Sample: AOC9-MW17PM092612
Date:	9/26/2012	
Photographer:	M. Fronckowiak	

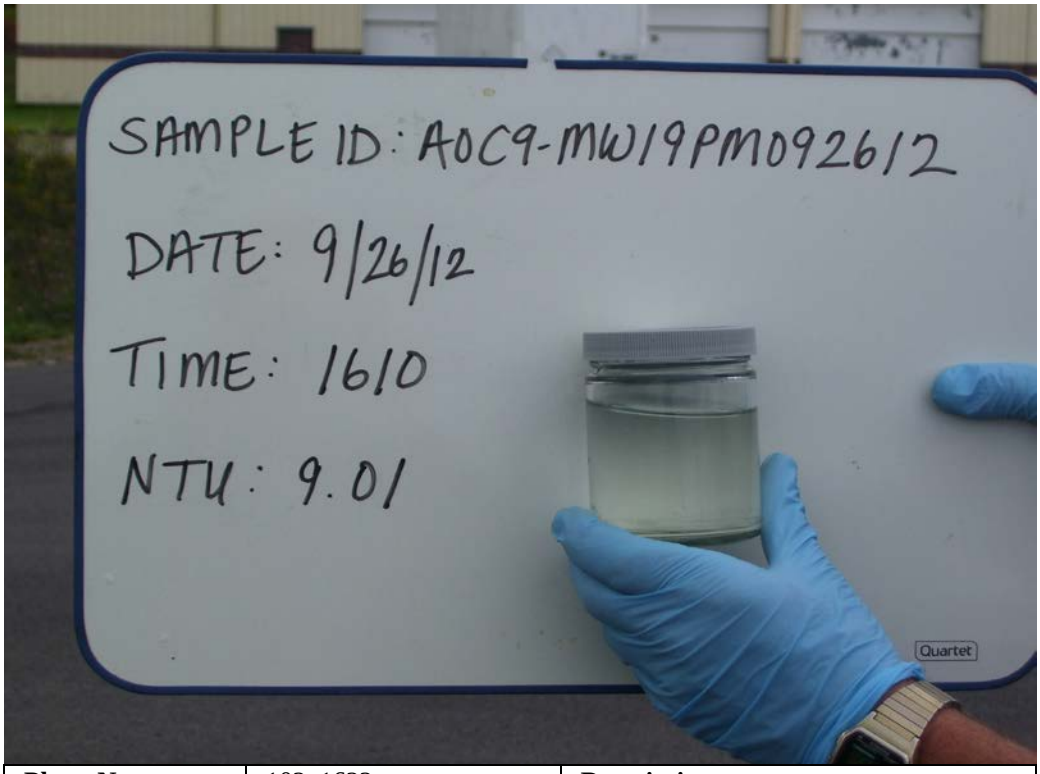


Photo No.:	102_1622	**Description:** Sample: AOC9-MW19PM092612
Date:	9/26/2012	
Photographer:	M. Fronckowiak	

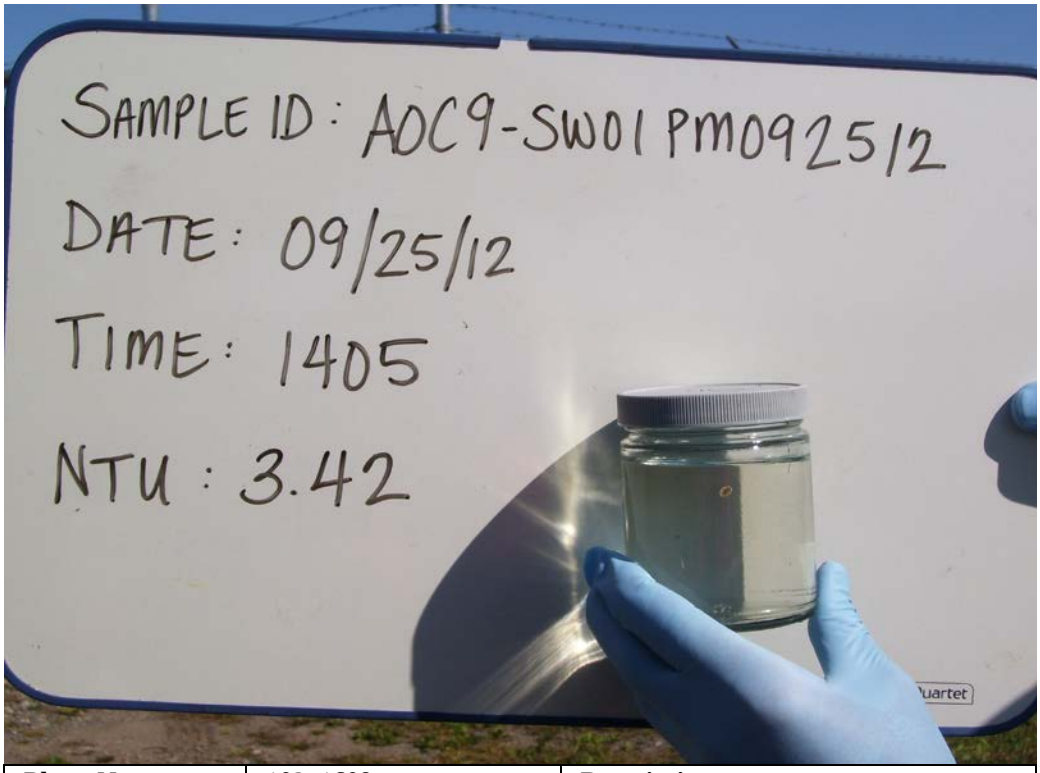


Photo No.:	102_1609	**Description:** Sample: AOC9-SW01PM092512
Date:	9/25/2012	
Photographer:	M. Fronckowiak	

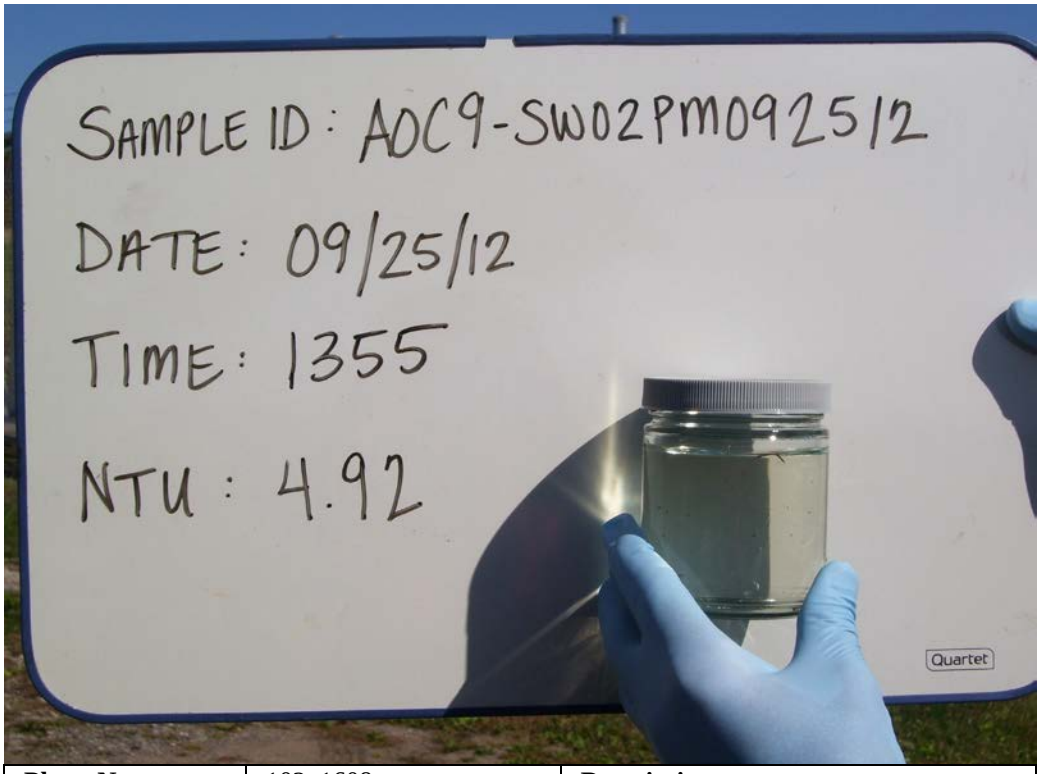


Photo No.:	102_1608	**Description:** Sample: AOC9-SW02PM092512
Date:	9/25/2012	
Photographer:	M. Fronckowiak	

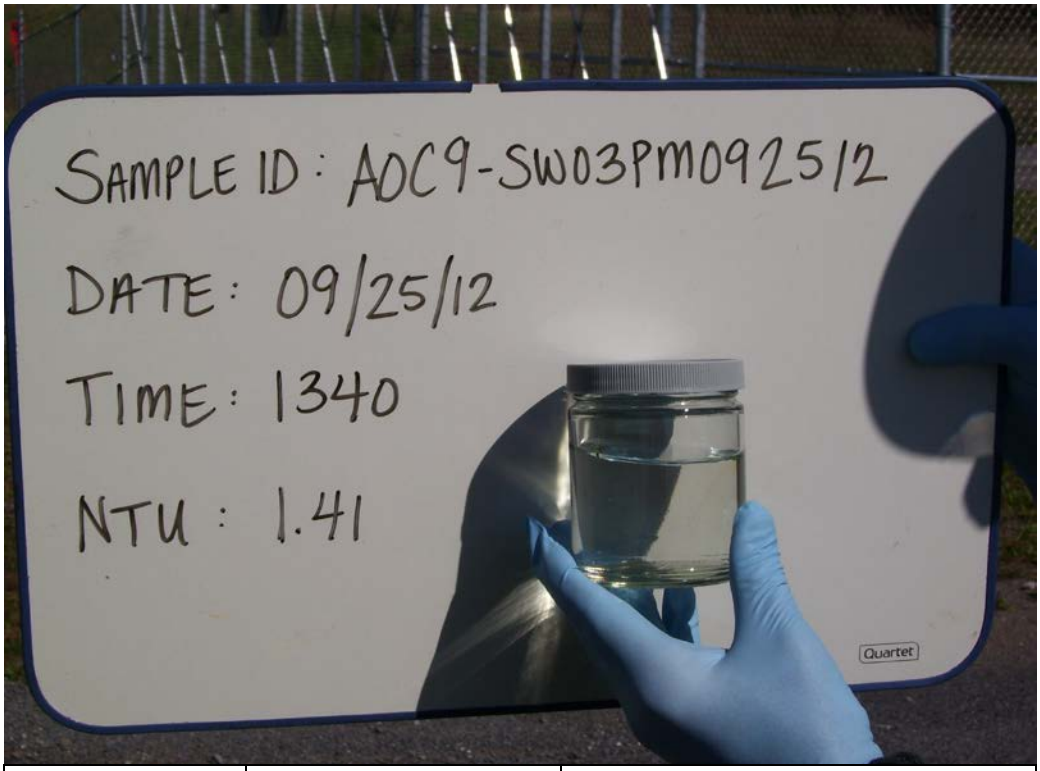


Photo No.:	102_1607	**Description:** Sample: AOC9-SW03PM092512
Date:	9/25/2012	
Photographer:	M. Fronckowiak	

E Analytical Data

The analytical data are provided in the attached CD.

F

Data Usability Summary Report

Data Usability Summary Report	Project: Griffiss AFB Performance Monitoring
Date Completed: May 29, 2012	Completed by: B. Kroon

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness per NYSDEC Division of Environmental Remediation Guidance for the Development of DUSRs (June 1999). Specific criteria for QC limits were obtained from the Department of Defense (DoD) Quality Systems Manual for Environmental Laboratories Version 4.1. Compliance with the project QA program is indicated on the in the checklist and tables. Any major or minor concerns affected data usability are summarized listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Table 1: Sample Data from Electronic Data Deliverable

Lab Sample ID	Client Sample ID	Matrix	Sample Date	MS/MSD	ID Corrections
SF2129-1	AOC9-TB1-04162012	WQ	4/16/2012		
SF2129-2	AOC9-SW03PM04162012	WS	4/16/2012		
SF2129-3	AOC9-SW02PM04162012	WS	4/16/2012		
SF2129-4	AOC9-SW01PM04162012	WS	4/16/2012		
SF2129-5	AOC9-MW06PM04162012	WG	4/16/2012		
SF2129-6	AOC9-MW17PM04172012	WG	4/17/2012		
SF2129-7	MW17/DPM04172012	WG	4/17/2012		AOC9-MW17/DPM 04172012
SF2129-8	AOC9-MW15PM04172012	WG	4/17/2012		
SF2129-9	AOC9-MW14PM04172012	WG	4/17/2012	MS/MSD	
SF2129-10	AOC9-MW19PM04172012	WG	4/17/2012		

Work Orders, Tests and Number of Samples included in this DUSR

Lab Work Orders	Matrix	Test Method	Test Name	Number of Samples
SF2129	WQ	SW8260	VOCs – by GC/MS	1
SF2129	WS	SW8260	VOCs – by GC/MS	3
SF2129	WG	SW8260	VOCs – by GC/MS	6

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	Yes – Trip blank included in this SDG. Field duplicate collected

Trip Blank - Every cooler with VOCs waters only Equipment Blank - 1/ set of samples per day?	(MW17/DPM04172012 is the field duplicate of parent sample AOC9-MW17PM04172012).
All ASP Forms complete?	No – AFCEE/DoD reporting format.
Case narrative present and complete?	Yes
Any holding time violations (See table below)?	No - All samples were prepared and analyzed within holding times.

Insert Holding time table below.

The following tables are presented at the end of this DUSR and provided summaries of results outside QC criteria.

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- MS/MSD Outside Limits (Table 4)
- LCS Outside Limits (Table 5)
- Re-analysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to Tables List

Volatile Organics Organics by GCMS	
Description	**Notes and Qualifiers**
Any compounds present in method, trip and field blanks (see Table 2)?	No
For samples, if results are <5 times the blank or < 10 times blank for common laboratory contaminants then "U" flag data. Qualification also applies to TICs.	No results qualified
Surrogate for method blanks and LCS within limits?	Yes
Surrogate for samples and MS/MSD within limits? (See Table 3). All samples should be re-analyzed for VOCs? Samples should re-analyzed if >1 BN and/or > AP for BNAs is out. Matrix effects should be established.	Yes
Laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes
MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then J flag positive data in original sample due to matrix?	No – Several compounds were non-compliant results qualified as noted on Table 4.
LCS within QC criteria (see Table 5)? If out, and the recovery high with no positive values, then no data qualification is required.	No – Several compounds were non-compliant results qualified as noted on Table 5.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes
Is initial calibration for target compounds <15 %RSD or curve fit?	No – Acetone had a % RSD > 15% all sample results associated with the ICAL are qualified “J” as estimated.

Data Usability Summary Report	Project: Griffiss AFB Performance Monitoring
Date Completed: May 29, 2012	Completed by: B. Kroon

Volatile Organics Organics by GCMS	
Description	**Notes and Qualifiers**
Is continuing calibration for target compounds < 20.5%D.	No - %D criteria not met for several compounds. 1,4-Dioxane is qualified "J" and "UJ" as estimated for samples AOC9-TB1-04162012, AOC9-SW03PM04162012, AOC9-SW02PM04162012, AOC9-SW01PM04162012, AOC9-MW06PM04162012, and AOC9-MW19PM04172012. Bromomethane, 1,4-Dioxane, and Naphthalene are qualified "J" and "UJ" as estimated in samples AOC9-MW14PM04172012, AOC9-MW15PM04172012, AOC9-MW17/DPM04172012, AOC9-MW17PM04172012.
Were any samples re-analyzed or diluted (see Table 6)? For any sample re-analysis and dilutions is only one reportable result by flagged?	Yes- Dilution results only reported where initial run was above calibration range as noted on Table 6.
For TICs are there any system related compounds that should not be reported?	NA
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	Yes.

Summary of Potential Impacts on Data Usability
Major Concerns
None
Minor Concerns
Results qualified "J" or "UJ" based on ICV and CCV %D, LCS recovery, MS/MSD recovery and RPD.

Data Usability Summary Report	Project: Griffiss AFB Performance Monitoring
Date Completed: May 29, 2012	Completed by: B. Kroon

Table 2 - List of Positive Results for Blank Samples

None

Table 2A - List of Samples Qualified for Method Blank Contamination

None

Table 2B - List of Samples Qualified for Field Blank Contamination

None

Table 3 - List of Samples with Surrogates outside Control Limits

None

Table 4 - List MS/MSD Recoveries and RPDs outside Control Limits

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Sample Qual.
SW8260	AOC9-MW14PM04172012	MS	Vinyl Chloride	ND	50	135	1	64	131	None
SW8260	AOC9-MW14PM04172012	MSD	Vinyl Chloride	ND	50	145	1	64	131	None
SW8260	AOC9-MW14PM04172012	MS	2-Butanone	ND	50	135	1	71	132	None
SW8260	AOC9-MW14PM04172012	MSD	2-Butanone	ND	50	142	1	71	132	None
SW8260	AOC9-MW14PM04172012	MS	4-Methyl-2-Pentaone	ND	50	139	1	83	122	None

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Sample Qual.
SW8260	AOC9-MW14PM04172012	MSD	4-Methyl-2-Pentanone	ND	50	146	1	83	122	None
SW8260	AOC9-MW14PM04172012	MS	1,1,2-Trichloroethane	ND	50	119	1	84	115	None
SW8260	AOC9-MW14PM04172012	MSD	1,1,2-Trichloroethane	ND	50	122	1	84	115	None
SW8260	AOC9-MW14PM04172012	MSD	2-Hexanone	ND	50	128	1	80	124	None
SW8260	AOC9-MW14PM04172012	MS	1,2-Dibromoethane	ND	50	118	1	84	116	None
SW8260	AOC9-MW14PM04172012	MSD	1,2-Dibromoethane	ND	50	122	1	84	116	None
SW8260	AOC9-MW14PM04172012	MS	Chlorobenzene	200	50	158	1	89	113	J
SW8260	AOC9-MW14PM04172012	MSD	Chlorobenzene	200	50	146	1	89	113	J
SW8260	AOC9-MW14PM04172012	MS	1,2-Dichlorobenzene	22	50	113	1	86	112	J
SW8260	AOC9-MW14PM04172012	MSD	1,2-Dichlorobenzene	22	50	117	1	86	112	J

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW8260	AOC9-MW14PM04172012	MSD	1,4-Dioxane	90	20	J/UJ

Table 5 - List LCS Recoveries outside Control Limits

Sample ID	Analyte	Method	Rec.	Low Limit	High Limit	No. of Affected Samples	Samp Qual
WG107276-1	1,3-Dichlorobenzene	SW8260	83.6	86	110	8	J/UJ
WG107276-1	1,4-Dichlorobenzene	SW8260	82.8	86	111	8	J/UJ
WG107276-1	Ethylbenzene	SW8260	85.2	88	113	8	J/UJ
WG107338-1	4-Methyl-2-Pentanone	SW8260	134	83	122	0	J flag hits

Table 6 –Samples that were Reanalyzed

Sample ID	Lab ID	Method	Sample Type	Action
AOC9-MW17PM04172012	SF2129-6DL	SW8260	Dilution	Report for E flag data only, add “J” flag
AOC9-MW17/DPM04172012	SF2129-7DL	SW8260	Dilution	Report for E flag data only, add “J” flag
AOC9-MW15PM04172012	SF2129-8DL	SW8260	Dilution	Report for E flag data only, add “J” flag

Table 7 – Summary of Field Duplicate Results

Method	Analyte	Unit	AOC9-MW17PM04172012	AOC9-MW17/DPM04172012	RPD	RPD Rating	Qualifier
SW8260	Vinyl Chloride	ug/L	1.2	1.3	8.0	Good	None
SW8260	cis-1,2-Dichloroethene	ug/L	3.9	3.8	2.6	Good	None
SW8260	Benzene	ug/L	1.6	1.6	0.0	Good	None

Data Usability Summary Report	Project: Griffiss AFB Performance Monitoring
Date Completed: May 29, 2012	Completed by: B. Kroon

Method	Analyte	Unit	AOC9-MW17PM04172012	AOC9-MW17/DPM04172012	RPD	RPD Rating	Qualifier
SW8260	Trichloroethene	ug/L	20	19	5.1	Good	None
SW8260	Tetrachloroethene	ug/L	4	3.8	5.1	Good	None
SW8260	Chlorobenzene	ug/L	270	270	0.0	Good	None
SW8260	1,3-Dichlorobenzene	ug/L	0.91	1	9.4	Good	None
SW8260	1,4-Dichlorobenzene	ug/L	15	15	0.0	Good	None
SW8260	1,2-Dichlorobenzene	ug/L	67	64	4.6	Good	None

Key:
A = Analyte
NC = Not Calculated
ND = Not Detected
PQL = Practical Quantitation Limit
RPD = Relative Percent Difference
T = Tentatively Identified Compound

Data Usability Summary Report	Project: Griffiss AFB Performance Monitoring
Date Completed: October 30, 2012	Completed by: B. Kroon

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness per NYSDEC Division of Environmental Remediation Guidance for the Development of DUSRs (June 1999). Specific criteria for QC limits were obtained from the Department of Defense (DoD) Quality Systems Manual for Environmental Laboratories Version 4.1. Compliance with the project QA program is indicated on the in the checklist and tables. Any major or minor concerns affected data usability are summarized listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Table 1: Sample Data from Electronic Data Deliverable

Lab Sample ID	Client Sample ID	Matrix	Sample Date	MS/MSD	ID Corrections
SF6628-1	AOC9-TB1092512	WQ	9/25/2012		
SF6628-2	AOC9-SW01PM092512	WS	9/25/2012		
SF6628-3	AOC9-SW02PM092512	WS	9/25/2012		
SF6628-4	AOC9-SW03PM092512	WS	9/25/2012		
SF6628-5	AOC9-MW06PM092512	WG	9/25/2012		
SF6628-6	AOC9-MW17PM092612	WG	9/26/2012	MS/MSD	
SF6628-7	AOC9-MW15PM092612	WG	9/26/2012		
SF6628-8	AOC9-MW14PM092612	WG	9/26/2012		
SF6628-9	AOC9-MW19PM092612	WG	9/26/2012		
SF6628-10	AOC9-MW19/DPM092612	WG	9/26/2012		

Work Orders, Tests and Number of Samples included in this DUSR

Lab Work Orders	Matrix	Test Method	Test Name	Number of Samples
SF6628	WQ	SW8260	VOCs – by GC/MS	1
SF6628	WS	SW8260	VOCs – by GC/MS	3
SF6628	WG	SW8260	VOCs – by GC/MS	6

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes
Did coolers arrive at lab between 2 and 6^{o}C and in good condition as indicated on COC and Cooler Receipt Form?	Yes
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs waters only Equipment Blank - 1/ set of samples per day?	Yes – Trip blank included in this SDG. Field duplicate collected (AOC9-MW19/DPM092612 is the field duplicate of parent sample AOC9-MW19PM092612).

Data Usability Summary Report	Project: Griffiss AFB Performance Monitoring
Date Completed: October 30, 2012	Completed by: B. Kroon

All ASP Forms complete?	No – AFCEE/DoD reporting format.
Case narrative present and complete?	Yes
Any holding time violations (See table below)?	No - All samples were prepared and analyzed within holding times.

Insert Holding time table below.

The following tables are presented at the end of this DUSR and provided summaries of results outside QC criteria.

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- MS/MSD Outside Limits (Table 4)
- LCS Outside Limits (Table 5)
- Re-analysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to Tables List

Volatile Organics Organics by GCMS	
Description	**Notes and Qualifiers**
Any compounds present in method, trip and field blanks (see Table 2)?	No
For samples, if results are <5 times the blank or < 10 times blank for common laboratory contaminants then "U" flag data. Qualification also applies to TICs.	No results qualified
Surrogate for method blanks and LCS within limits?	Yes
Surrogate for samples and MS/MSD within limits? (See Table 3). All samples should be re-analyzed for VOCs? Samples should re-analyzed if >1 BN and/or > AP for BNAs is out. Matrix effects should be established.	Yes
Laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes
MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then J flag positive data in original sample due to matrix?	No – Several compounds were non-compliant results qualified as noted on Table 4.
LCS within QC criteria (see Table 5)? If out, and the recovery high with no positive values, then no data qualification is required.	No – Several compounds were non-compliant results qualified as noted on Table 5.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes
Is initial calibration for target compounds <15 %RSD or curve fit?	No – 1,4-Dioxane had % RSD > 15% all sample results associated with the ICAL are qualified “J” and “UJ” as estimated.

Data Usability Summary Report	Project: Griffiss AFB Performance Monitoring
Date Completed: October 30, 2012	Completed by: B. Kroon

Volatile Organics Organics by GCMS	
Description	**Notes and Qualifiers**
Is continuing calibration for target compounds < 20.5%D.	No - %D criteria not met for several compounds. 1,4-Dioxane and Bromomethane are qualified "J" and "UJ" as estimated for samples AOC9-TB1092512, AOC-MW17PM092612, AOC9-SW01PM092512, AOC9-SW02PM092512, AOC9-SW03PM092512, AOC9-MW06PM092512. 1,4-Dioxane and 1,2-Dibromo-3-Chloropropane are qualified "J" and "UJ" as estimated in samples AOC9-MW15PM092612, AOC9-MW14PM092612, AOC9-MW19PM092612, and AOC9-MW19/DPM092612. 1,4-Dioxane, Bromoform, Naphthalene, and 1,2-Dibromo-3-Chloropropane are qualified "J" and "UJ" as estimated in samples AOC9-MW15PM092612 (Dilution run).
Were any samples re-analyzed or diluted (see Table 6)? For any sample re-analysis and dilutions is only one reportable result by flagged?	Yes- Dilution results only reported where initial run was above calibration range as noted on Table 6.
For TICs are there any system related compounds that should not be reported?	NA
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	Yes.

Summary of Potential Impacts on Data Usability
Major Concerns
None
Minor Concerns
Results qualified "J" or "UJ" based on ICV and CCV %D, LCS recovery, MS/MSD recovery and RPD.

Data Usability Summary Report	Project: Griffiss AFB Performance Monitoring
Date Completed: October 30, 2012	Completed by: B. Kroon

Table 2 - List of Positive Results for Blank Samples

None

Table 2A - List of Samples Qualified for Method Blank Contamination

None

Table 2B - List of Samples Qualified for Field Blank Contamination

None

Table 3 - List of Samples with Surrogates outside Control Limits

None

Table 4 - List MS/MSD Recoveries and RPDs outside Control Limits

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Sample Qual.
SW8260	ACO9-MW17PM092612	MS	Dichlorodifluoromethane	ND	50	180	1	29	164	None
SW8260	ACO9-MW17PM092612	MSD	Dichlorodifluoromethane	ND	50	181	1	29	164	None
SW8260	ACO9-MW17PM092612	MS	Vinyl Chloride	2.5	50	134	1	64	131	J Flag Hits
SW8260	ACO9-MW17PM092612	MSD	Vinyl Chloride	2.5	50	136	1	64	131	J Flag Hits
SW8260	ACO9-MW17PM092612	MS	Freon-113	ND	50	129	1	73	126	None
SW8260	ACO9-MW17PM092612	MSD	Freon-113	ND	50	126	1	73	126	None
SW8260	ACO9-MW17PM092612	MS	Methylcyclohexane	ND	50	126	1	73	126	None

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Sample Qual.
SW8260	ACO9-MW17PM092612	MSD	Methylcyclohexane	ND	50	125	1	73	125	None
SW8260	ACO9-MW17PM092612	MS	Chlorobenzene	300	50	114	1	89	113	J Flag Hits
SW8260	ACO9-MW17PM092612	MSD	Chlorobenzene	300	50	76	1	89	113	J/UJ results

Table 5 - List LCS Recoveries outside Control Limits

Sample ID	Analyte	Method	Rec.	Low Limit	High Limit	No. of Affected Samples	Samp Qual
WG114264-1	4-Methyl-2-Pentanone	SW8260	72.2	83	122	6	J/UJ
WG114264-1	2-Hexanone	SW8260	76.0	80	124	6	J/UJ
WG114264-1	Bromoform	SW8260	86.0	86	117	6	J/UJ
WG114326-1	4-Methyl-2-Pentanone	SW8260	69.8	83	122	4	J/UJ
WG114326-1	2-Hexanone	SW8260	71.4	80	124	4	J/UJ
WG114326-1	Ethylbenzene	SW8260	87.8	88	113	4	J/UJ
WG114326-1	Bromoform	SW8260	82.6	86	117	4	J/UJ
WG114326-1	Isopropylbenzene	SW8260	94.4	96	136	4	J/UJ
WG114400-1	4-Methyl-2-Pentanone	SW8260	69.8	83	122	4	J/UJ
WG114400-1	2-Hexanone	SW8260	79.0	80	124	4	J/UJ
WG114400-1	Isopropylbenzene	SW8260	80.2	96	136	4	J/UJ

Table 6 –Samples that were Reanalyzed

Sample ID	Lab ID	Method	Sample Type	Action
AOC9-MW17PM04172012	SF6628-6DL	SW8260	Dilution	Report for E flag data only, add “J” flag

Data Usability Summary Report	Project: Griffiss AFB Performance Monitoring
Date Completed: October 30, 2012	Completed by: B. Kroon

Sample ID	Lab ID	Method	Sample Type	Action
AOC9-MW15PM04172012	SF6628-7DL	SW8260	Dilution	Report for E flag data only, add "J" flag

Table 7 – Summary of Field Duplicate Results

Method	Analyte	Units	AOC9-MW19PM092612	AOC9-MW19/DPM092612	RPD	Rating	Sample Qualifier
SW8260B	cis-1,2-Dichloroethene	ug/l	1.4	1.8	25.00	Good	None
SW8260B	Chlorobezene	ug/l	31	38	20.29	Good	None
SW8260B	1,4-Dichlorobenzene	ug/l	4.4	5.3	18.56	Good	None
SW8260B	1,2-Dichlorobenzene	ug/l	5.4	6.8	22.95	Good	None

Key:
A = Analyte
NC = Not Calculated
ND = Not Detected
PQL = Practical Quantitation Limit
RPD = Relative Percent Difference
T = Tentatively Identified Compound

G

Field Adjustment Forms

Field Adjustment Form No: 1
Former Griffiss AFB

To: Mr. Douglas M. Pocze USEPA - Region 2 Federal Facilities Section 290 Broadway New York, NY 10007 Fax: (212) 637-3256 Office: (212 637-4432	Ms. Heather Bishop NYSDEC Division of Environmental Remediation Remedial Bureau A 625 Broadway, 11th floor Albany, NY 12233-7015 Fax: (518) 402-9022 Office: (518) 402-9692
From: Ms. Catherine Jerrard, P.E., PMP AFCEE/EXC-Griffiss 428 Phoenix Drive Rome, NY 13441-4105 Fax: (315) 356-0816 Office: (315) 356-0810	**Date:** Tuesday, April 17, 2012 **Time:** 0840 (MW17)/1115(MW15)
Site: Former GAFB - AOC9	**Work Plan Section:** 3.3.2 **Page:** 3-15

Need for Field Adjustment

It appeared due to replacement of bladder pumps in monitoring wells (MW); MW17 and MW15 after their removal during the second round of performance monitoring, caused air build up within the bladder and thus in the lines upon purging of groundwater. After tightening fittings and adjusting flow through cell, the bladders were filled with water (~60 sec to fill bladder) by GeoControl unit and then purged (~25 sec to purge) at least twice at each well. This seemed to solve the problem as air bubbles were no longer seen in ~~the~~ MW lines. MW17 had new initial water level. MW15 was allowed to recharge to a value similar to water level initially taken.

Prepared by:	Organization	Date:
M. Horanburg / MHoranburg	Ecology and Environment Engineering, P.C.	4/17/12
Approved by:	**Org:** USACE	**Date:**

Figure 3-6 Field Adjustment Form

H MAROS

MAROS Site Results

Project: Griffis AOC 9 **User Name:** Jenkins

Location: Griffis AFB **State:** New York

User Defined Site and Data Assumptions:

Hydrogeology and Plume Information:

Groundwater Seepage Velocity: 87.5 ft/yr

Current Plume Length: 840 ft

Current Plume Width 400 ft

Number of Tail Wells: 6

Number of Source Wells: 1

Source Information:

Source Treatment: In-situ Biodegradation

NAPL is not observed at this site.

Down-gradient Information:

Distance from Edge of Tail to Nearest:

Down-gradient receptor: 1 ft

Down-gradient property: 1 ft

Distance from Source to Nearest:

Down-gradient receptor: 1140 ft

Down-gradient property: 1140 ft

Data Consolidation Assumptions:

Time Period: 12/18/1997 **to** 4/16/2012
Consolidation Period: No Time Consolidation
Consolidation Type: Median
Duplicate Consolidation: Average
ND Values: 1/2 Detection Limit
J Flag Values : Actual Value

Plume Information Weighting Assumptions:

Consolidation Step 1. Weight Plume Information by Chemical
Summary Weighting: Weighting Applied to All Chemicals Equally
Consolidation Step 2. Weight Well Information by Chemical
Well Weighting: No Weighting of Wells was Applied.
Chemical Weighting: No Weighting of Chemicals was Applied.

Note: These assumptions were made when consolidating the historical montoring data and lumping the Wells and COCs.

1. Compliance Monitoring/Remediation Optimization Results:

Preliminary Monitoring System Optimization Results: Based on site classification, source treatment and Monitoring System Category the following suggestions are made for site Sampling Frequency, Duration of Sampling before reassessment, and Well Density. These criteria take into consideration: Plume Stability, Type of Plume, and Groundwater Velocity.

COC	Tail Stability	Source Stability	Level of Effort	Sampling Duration	Sampling Frequency	Sampling Density
1,2-DICHLOROBENZENE	PD	N/A	N/A	Continue remediation mechanism unitl reach stable trend or	No Recommendation	24
1,4-DICHLOROBENZENE	D	N/A	N/A	Continue remediation mechanism unitl reach stable trend or	No Recommendation	24
CHLOROBENZENE	D	N/A	N/A	Continue remediation mechanism unitl reach stable trend or	No Recommendation	24
TETRACHLOROETHYLENE(PCE)	D	N/A	N/A	Continue remediation mechanism unitl reach stable trend or	No Recommendation	24
TRICHLOROETHYLENE (TCE)	S	N/A	N/A	Remove treatment system if previously reducing concentation	No Recommendation	24

Note:

Plume Status: (I) Increasing; (PI)Probably Increasing; (S) Stable; (NT) No Trend; (PD) Probably Decreasing; (D) Decreasing

Design Categories: (E) Extensive; (M) Moderate; (L) Limited (N/A) Not Applicable, Insufficient Data Available

Level of Monitoring Effort Indicated by Analysis Limited

2. Spatial Moment Analysis Results:

Moment Type	Constituent	Coefficient of Variation	Mann-Kendall S Statistic	Confidence in Trend	Moment Trend
Zeroth Moment: Mass					
	1,2-DICHLOROBENZENE	2.83	1	50.0%	NT
	1,4-DICHLOROBENZENE	2.83	1	50.0%	NT
	CHLOROBENZENE	2.83	1	50.0%	NT
	TETRACHLOROETHYLENE(PCE)	2.83	1	50.0%	NT
	TRICHLOROETHYLENE (TCE)	2.83	1	50.0%	NT
1st Moment: Distance to Source					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A
2nd Moment: Sigma XX					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A
2nd Moment: Sigma YY					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A

Note: The following assumptions were applied for the calculation of the Zeroth Moment:

Porosity: 0.35 **Saturated Thickness:** Uniform: 10 ft

Mann-Kendall Trend test performed on all sample events for each constituent. Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)-Due to insufficient Data (< 4 sampling events).

MAROS Linear Regression Statistics Summary

Project: Griffis AOC 9

User Name: Jenkins

Location: Griffis AFB

State: New York

Time Period: 12/18/1997 **to** 4/16/2012
Consolidation Period: No Time Consolidation
Consolidation Type: Median
Duplicate Consolidation: Average
ND Values: 1/2 Detection Limit
J Flag Values : Actual Value

Well	Source/ Tail	Average Conc (mg/L)	Median Conc (mg/L)	Standard Deviation	All Samples "ND" ?	Ln Slope	Coefficient of Variation	Confidence in Trend	Concentration Trend
1,2-DICHLOROBENZENE									
AOC9-MW06	T	1.5E-03	1.5E-03	2.4E-19	Yes	-5.1E-35	0.00	100.0%	ND
AOC9-MW14	T	8.8E-02	7.6E-02	6.2E-02	No	-8.5E-04	0.71	95.1%	D
AOC9-MW15	T	4.7E-02	5.5E-02	2.3E-02	No	-4.1E-04	0.50	83.3%	S
AOC9-MW17	T	5.9E-02	6.6E-02	1.1E-02	No	-3.5E-05	0.19	58.6%	S
AOC9-MW19	S	5.3E-03	6.0E-03	1.3E-03	No	0.0E+00	0.00	0.0%	N/A
G009-MW01	T	8.1E-04	6.8E-04	4.9E-04	No	-4.4E-05	0.61	57.4%	S
G009-MW02	T	1.5E-03	1.5E-03	0.0E+00	Yes	-3.0E-35	0.00	100.0%	ND
1,4-DICHLOROBENZENE									
AOC9-MW06	T	1.5E-03	1.5E-03	2.4E-19	Yes	-5.1E-35	0.00	100.0%	ND
AOC9-MW14	T	6.1E-02	5.3E-02	3.7E-02	No	-7.1E-04	0.61	95.5%	D
AOC9-MW15	T	5.5E-02	5.8E-02	3.6E-02	No	-7.7E-04	0.66	96.3%	D
AOC9-MW17	T	2.4E-02	2.4E-02	9.1E-03	No	8.3E-05	0.38	61.4%	NT
AOC9-MW19	S	3.8E-03	4.0E-03	7.6E-04	No	0.0E+00	0.00	0.0%	N/A
G009-MW01	T	1.5E-03	1.5E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
G009-MW02	T	1.5E-03	1.5E-03	0.0E+00	Yes	-3.0E-35	0.00	100.0%	ND
CHLOROBENZENE									
AOC9-MW06	T	2.5E-03	2.5E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW14	T	9.2E-01	9.5E-01	6.5E-01	No	-8.7E-04	0.71	92.9%	PD
AOC9-MW15	T	9.8E-01	9.9E-01	6.6E-01	No	-7.9E-04	0.67	95.5%	D
AOC9-MW17	T	4.5E-01	4.5E-01	2.1E-01	No	2.2E-04	0.46	73.4%	NT
AOC9-MW19	S	2.2E-02	1.8E-02	1.0E-02	No	0.0E+00	0.00	0.0%	N/A
G009-MW01	T	2.5E-03	2.5E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
G009-MW02	T	2.5E-03	2.5E-03	0.0E+00	Yes	-3.0E-35	0.00	100.0%	ND
TETRACHLOROETHYLENE(PCE)									
AOC9-MW06	T	2.5E-03	2.5E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW14	T	2.5E-03	2.5E-03	0.0E+00	Yes	-3.2E-34	0.00	100.0%	ND
AOC9-MW15	T	2.5E-03	2.5E-03	0.0E+00	Yes	-3.2E-34	0.00	100.0%	ND
AOC9-MW17	T	2.4E-03	2.0E-03	1.2E-03	No	-1.4E-04	0.49	62.4%	S
AOC9-MW19	S	2.5E-03	2.5E-03	0.0E+00	Yes	0.0E+00	0.00	0.0%	ND
G009-MW01	T	2.5E-03	2.5E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
G009-MW02	T	2.5E-03	2.5E-03	0.0E+00	Yes	-3.0E-35	0.00	100.0%	ND
TRICHLOROETHYLENE (TCE)									
AOC9-MW06	T	1.4E-03	1.0E-03	6.5E-04	No	5.9E-05	0.48	68.2%	NT
AOC9-MW14	T	7.9E-03	2.5E-03	1.1E-02	No	-4.2E-04	1.44	68.7%	NT
AOC9-MW15	T	1.9E-03	2.0E-03	8.6E-04	No	-3.5E-04	0.46	72.4%	S

Project: Griffis AOC 9 **User Name:** Jenkins

Location: Griffis AFB **State:** New York

Well	Source/ Tail	Average Conc (mg/L)	Median Conc (mg/L)	Standard Deviation	All Samples "ND" ?	Ln Slope	Coefficient of Variation	Confidence in Trend	Concentration Trend
TRICHLOROETHYLENE (TCE)									
AOC9-MW17	T	1.6E-02	1.4E-02	3.5E-03	No	-9.4E-05	0.22	71.3%	S
AOC9-MW19	S	1.2E-03	5.0E-04	1.2E-03	No	0.0E+00	0.00	0.0%	N/A
G009-MW01	T	1.2E-03	8.8E-04	8.7E-04	No	-2.5E-04	0.72	91.1%	PD
G009-MW02	T	1.3E-03	8.8E-04	8.2E-04	No	-2.3E-04	0.63	89.9%	S

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Non-detect (ND); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); COV = Coefficient of Variation

MAROS Mann-Kendall Statistics Summary

Project: Griffis AOC 9
User Name: Jenkins
Location: Griffis AFB
State: New York

Time Period: 12/18/1997 **to** 4/16/2012
Consolidation Period: No Time Consolidation
Consolidation Type: Median
Duplicate Consolidation: Average
ND Values: 1/2 Detection Limit
J Flag Values : Actual Value

Well	Source/ Tail	Number of Samples	Number of Detects	Coefficient of Variation	Mann-Kendall Statistic	Confidence in Trend	All Samples "ND" ?	Concentration Trend
1,2-DICHLOROBENZENE								
AOC9-MW06	T	6	0	0.00	0	42.3%	Yes	ND
AOC9-MW14	T	5	5	0.71	-10	99.2%	No	D
AOC9-MW15	T	5	5	0.50	-6	88.3%	No	S
AOC9-MW17	T	5	5	0.19	2	59.2%	No	NT
AOC9-MW19	S	3	3	0.00	0	0.0%	No	N/A
G009-MW01	T	4	3	0.61	0	37.5%	No	S
G009-MW02	T	5	0	0.00	0	40.8%	Yes	ND
1,4-DICHLOROBENZENE								
AOC9-MW06	T	6	0	0.00	0	42.3%	Yes	ND
AOC9-MW14	T	5	5	0.61	-10	99.2%	No	D
AOC9-MW15	T	5	5	0.66	-10	99.2%	No	D
AOC9-MW17	T	5	5	0.38	-2	59.2%	No	S
AOC9-MW19	S	3	3	0.00	0	0.0%	No	N/A
G009-MW01	T	4	0	0.00	0	37.5%	Yes	ND
G009-MW02	T	5	0	0.00	0	40.8%	Yes	ND
CHLOROBENZENE								
AOC9-MW06	T	6	0	0.00	0	42.3%	Yes	ND
AOC9-MW14	T	5	5	0.71	-10	99.2%	No	D
AOC9-MW15	T	5	5	0.67	-10	99.2%	No	D
AOC9-MW17	T	5	5	0.46	0	40.8%	No	S
AOC9-MW19	S	3	3	0.00	0	0.0%	No	N/A
G009-MW01	T	4	0	0.00	0	37.5%	Yes	ND
G009-MW02	T	5	0	0.00	0	40.8%	Yes	ND
TETRACHLOROETHYLENE(PCE)								
AOC9-MW06	T	6	0	0.00	0	42.3%	Yes	ND
AOC9-MW14	T	5	0	0.00	0	40.8%	Yes	ND
AOC9-MW15	T	5	0	0.00	0	40.8%	Yes	ND
AOC9-MW17	T	5	5	0.49	1	50.0%	No	NT
AOC9-MW19	S	3	0	0.00	0	0.0%	Yes	ND
G009-MW01	T	4	0	0.00	0	37.5%	Yes	ND
G009-MW02	T	5	0	0.00	0	40.8%	Yes	ND
TRICHLOROETHYLENE (TCE)								
AOC9-MW06	T	6	5	0.48	6	81.5%	No	NT

Project: Griffis AOC 9

User Name: Jenkins

Location: Griffis AFB

State: New York

Well	Source/ Tail	Number of Samples	Number of Detects	Coefficient of Variation	Mann-Kendall Statistic	Confidence in Trend	All Samples "ND" ?	Concentration Trend
TRICHLOROETHYLENE (TCE)								
AOC9-MW14	T	5	4	1.44	-3	67.5%	No	NT
AOC9-MW15	T	5	3	0.46	-2	59.2%	No	S
AOC9-MW17	T	5	5	0.22	1	50.0%	No	NT
AOC9-MW19	S	3	2	0.00	0	0.0%	No	N/A
G009-MW01	T	4	3	0.72	-4	83.3%	No	S
G009-MW02	T	5	4	0.63	-6	88.3%	No	S

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)- Due to insufficient Data (< 4 sampling events); Source/Tail (S/T)

The Number of Samples and Number of Detects shown above are post-consolidation values.

MAROS Spatial Moment Analysis Summary

Project: Griffis AOC 9

Location: Griffis AFB

User Name: Jenkins

State: New York

	0th Moment	1st Moment (Center of Mass)			2nd Moment (Spread)		
Effective Date	Estimated Mass (Kg)	Xc (ft)	Yc (ft)	Source Distance (ft)	Sigma XX (sq ft)	Sigma YY (sq ft)	Number of Wells
1,2-DICHLOROBENZENE							
12/18/1997	0.0E+00						2
5/15/2000	0.0E+00						3
9/5/2004	0.0E+00						3
11/1/2006	0.0E+00						4
7/28/2010	2.5E-01	1,133,842	1,181,572	1,636,619	3,920	11,274	6
5/17/2011	0.0E+00						5
10/24/2011	0.0E+00						5
4/16/2012	0.0E+00						5
1,4-DICHLOROBENZENE							
12/18/1997	0.0E+00						2
5/15/2000	0.0E+00						3
9/5/2004	0.0E+00						3
11/1/2006	0.0E+00						4
7/28/2010	2.4E-01	1,133,838	1,181,579	1,636,622	4,118	12,292	6
5/17/2011	0.0E+00						5
10/24/2011	0.0E+00						5
4/16/2012	0.0E+00						5
CHLOROBENZENE							
12/18/1997	0.0E+00						2
5/15/2000	0.0E+00						3
9/5/2004	0.0E+00						3
11/1/2006	0.0E+00						4
7/28/2010	1.8E+00	1,133,850	1,181,590	1,636,639	2,752	10,898	6
5/17/2011	0.0E+00						5
10/24/2011	0.0E+00						5
4/16/2012	0.0E+00						5
TETRACHLOROETHYLENE(PCE)							
12/18/1997	0.0E+00						2
5/15/2000	0.0E+00						3
9/5/2004	0.0E+00						3
11/1/2006	0.0E+00						4
7/28/2010	4.7E-02	1,133,796	1,181,540	1,636,565	6,616	15,211	6
5/17/2011	0.0E+00						5
10/24/2011	0.0E+00						5
4/16/2012	0.0E+00						5

Project: Griffis AOC 9

Location: Griffis AFB

User Name: Jenkins

State: New York

	0th Moment	1st Moment (Center of Mass)			2nd Moment (Spread)		
Effective Date	Estimated Mass (kg)	Xc (ft)	Yc (ft)	Source Distance (ft)	Sigma XX (sq ft)	Sigma YY (sq ft)	Number of Wells
TRICHLOROETHYLENE (TCE)							
TRICHLOROETHYLENE (TCE)							
12/18/1997	0.0E+00						2
5/15/2000	0.0E+00						3
9/5/2004	0.0E+00						3
11/1/2006	0.0E+00						4
7/28/2010	5.0E-02	1,133,822	1,181,554	1,636,594	5,937	13,616	6
5/17/2011	0.0E+00						5
10/24/2011	0.0E+00						5
4/16/2012	0.0E+00						5

Project: Griffis AOC 9

Location: Griffis AFB

User Name: Jenkins

State: New York

Moment Type	Constituent	Coefficient of Variation	Mann-Kendall S Statistic	Confidence in Trend	Moment Trend
Zeroth Moment: Mass					
	1,2-DICHLOROBENZENE	2.83	1	50.0%	NT
	1,4-DICHLOROBENZENE	2.83	1	50.0%	NT
	CHLOROBENZENE	2.83	1	50.0%	NT
	TETRACHLOROETHYLENE(PCE)	2.83	1	50.0%	NT
	TRICHLOROETHYLENE (TCE)	2.83	1	50.0%	NT
1st Moment: Distance to Source					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A
2nd Moment: Sigma XX					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A
2nd Moment: Sigma YY					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A

Note: The following assumptions were applied for the calculation of the Zeroth Moment:

Porosity: 0.35 **Saturated Thickness:** Uniform: 10 ft

Mann-Kendall Trend test performed on all sample events for each constituent. Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)-Due to insufficient Data (< 4 sampling events).

Note: The Sigma XX and Sigma YY components are estimated using the given field coordinate system and then rotated to align with the estimated groundwater flow direction. Moments are not calculated for sample events with less than 6 wells.

MAROS Statistical Trend Analysis Summary

Project: Griffis AOC 9

Location: Griffis AFB

User Name: Jenkins

State: New York

Time Period: 12/18/1997 **to** 4/16/2012

Consolidation Period: No Time Consolidation

Consolidation Type: Median

Duplicate Consolidation: Average

ND Values: 1/2 Detection Limit

J Flag Values : Actual Value

Well	Source/ Tail	Number of Samples	Number of Detects	Average Conc. (mg/L)	Median Conc. (mg/L)	All Samples "ND" ?	Mann-Kendall Trend	Linear Regression Trend
1,2-DICHLOROBENZENE								
AOC9-MW06	T	6	0	1.5E-03	1.5E-03	Yes	ND	ND
AOC9-MW14	T	5	5	8.8E-02	7.6E-02	No	D	D
AOC9-MW15	T	5	5	4.7E-02	5.5E-02	No	S	S
AOC9-MW17	T	5	5	5.9E-02	6.6E-02	No	NT	S
AOC9-MW19	S	3	3	5.3E-03	6.0E-03	No	N/A	N/A
G009-MW01	T	4	3	8.1E-04	6.8E-04	No	S	S
G009-MW02	T	5	0	1.5E-03	1.5E-03	Yes	ND	ND
1,4-DICHLOROBENZENE								
AOC9-MW06	T	6	0	1.5E-03	1.5E-03	Yes	ND	ND
AOC9-MW14	T	5	5	6.1E-02	5.3E-02	No	D	D
AOC9-MW15	T	5	5	5.5E-02	5.8E-02	No	D	D
AOC9-MW17	T	5	5	2.4E-02	2.4E-02	No	S	NT
AOC9-MW19	S	3	3	3.8E-03	4.0E-03	No	N/A	N/A
G009-MW01	T	4	0	1.5E-03	1.5E-03	Yes	ND	ND
G009-MW02	T	5	0	1.5E-03	1.5E-03	Yes	ND	ND
CHLOROBENZENE								
AOC9-MW06	T	6	0	2.5E-03	2.5E-03	Yes	ND	ND
AOC9-MW14	T	5	5	9.2E-01	9.5E-01	No	D	PD
AOC9-MW15	T	5	5	9.8E-01	9.9E-01	No	D	D
AOC9-MW17	T	5	5	4.5E-01	4.5E-01	No	S	NT
AOC9-MW19	S	3	3	2.2E-02	1.8E-02	No	N/A	N/A
G009-MW01	T	4	0	2.5E-03	2.5E-03	Yes	ND	ND
G009-MW02	T	5	0	2.5E-03	2.5E-03	Yes	ND	ND
TETRACHLOROETHYLENE(PCE)								
AOC9-MW06	T	6	0	2.5E-03	2.5E-03	Yes	ND	ND
AOC9-MW14	T	5	0	2.5E-03	2.5E-03	Yes	ND	ND
AOC9-MW15	T	5	0	2.5E-03	2.5E-03	Yes	ND	ND
AOC9-MW17	T	5	5	2.4E-03	2.0E-03	No	NT	S
AOC9-MW19	S	3	0	2.5E-03	2.5E-03	Yes	ND	ND
G009-MW01	T	4	0	2.5E-03	2.5E-03	Yes	ND	ND
G009-MW02	T	5	0	2.5E-03	2.5E-03	Yes	ND	ND
TRICHLOROETHYLENE (TCE)								

MAROS Statistical Trend Analysis Summary

Well	Source/ Tail	Number of Samples	Number of Detects	Average Conc. (mg/L)	Median Conc. (mg/L)	All Samples "ND" ?	Mann-Kendall Trend	Linear Regression Trend
TRICHLOROETHYLENE (TCE)								
AOC9-MW06	T	6	5	1.4E-03	1.0E-03	No	NT	NT
AOC9-MW14	T	5	4	7.9E-03	2.5E-03	No	NT	NT
AOC9-MW15	T	5	3	1.9E-03	2.0E-03	No	S	S
AOC9-MW17	T	5	5	1.6E-02	1.4E-02	No	NT	S
AOC9-MW19	S	3	2	1.2E-03	5.0E-04	No	N/A	N/A
G009-MW01	T	4	3	1.2E-03	8.8E-04	No	S	PD
G009-MW02	T	5	4	1.3E-03	8.8E-04	No	S	S

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); No Detectable Concentration (NDC)

The Number of Samples and Number of Detects shown above are post-consolidation values.

MAROS Plume Analysis Summary

Project: Griffis AOC 9
Location: Griffis AFB

User Name: Jenkins
State: New York

Time Period: 12/18/1997 **to** 4/16/2012
Consolidation Period: No Time Consolidation
Consolidation Type: Median
Duplicate Consolidation: Average
ND Values: 1/2 Detection Limit
J Flag Values : Actual Value

Constituent	Well	Source/ Tail	Number of Samples	Number of Detects	Average (mg/L)	Median (mg/L)	All Samples "ND" ?	Mann-Kendall	Linear Regression	Modeling	Empirical
1,2-DICHLOROBENZENE											
	AOC9-MW06	T	6	0	1.5E-03	1.5E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW14	T	5	5	8.8E-02	7.6E-02	No	D	D	N/A	N/A
	AOC9-MW15	T	5	5	4.7E-02	5.5E-02	No	S	S	N/A	N/A
	AOC9-MW17	T	5	5	5.9E-02	6.6E-02	No	NT	S	N/A	N/A
	AOC9-MW19	S	3	3	5.3E-03	6.0E-03	No	N/A	N/A	N/A	N/A
	G009-MW01	T	4	3	8.1E-04	6.8E-04	No	S	S	N/A	N/A
	G009-MW02	T	5	0	1.5E-03	1.5E-03	Yes	ND	ND	N/A	N/A
1,4-DICHLOROBENZENE											
	AOC9-MW06	T	6	0	1.5E-03	1.5E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW14	T	5	5	6.1E-02	5.3E-02	No	D	D	N/A	N/A
	AOC9-MW15	T	5	5	5.5E-02	5.8E-02	No	D	D	N/A	N/A
	AOC9-MW17	T	5	5	2.4E-02	2.4E-02	No	S	NT	N/A	N/A
	AOC9-MW19	S	3	3	3.8E-03	4.0E-03	No	N/A	N/A	N/A	N/A
	G009-MW01	T	4	0	1.5E-03	1.5E-03	Yes	ND	ND	N/A	N/A
	G009-MW02	T	5	0	1.5E-03	1.5E-03	Yes	ND	ND	N/A	N/A
CHLOROBENZENE											
	AOC9-MW06	T	6	0	2.5E-03	2.5E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW14	T	5	5	9.2E-01	9.5E-01	No	D	PD	N/A	N/A
	AOC9-MW15	T	5	5	9.8E-01	9.9E-01	No	D	D	N/A	N/A
	AOC9-MW17	T	5	5	4.5E-01	4.5E-01	No	S	NT	N/A	N/A
	AOC9-MW19	S	3	3	2.2E-02	1.8E-02	No	N/A	N/A	N/A	N/A

Project: Griffis AOC 9 **User Name:** Jenkins

Location: Griffis AFB **State:** New York

Constituent	Well	Source/ Tail	Number of Samples	Number of Detects	Average (mg/L)	Median (mg/L)	All Samples "ND" ?	Mann-Kendall	Linear Regression	Modeling	Empirical
CHLOROBENZENE											
	G009-MW01	T	4	0	2.5E-03	2.5E-03	Yes	ND	ND	N/A	N/A
	G009-MW02	T	5	0	2.5E-03	2.5E-03	Yes	ND	ND	N/A	N/A
TETRACHLOROETHYLENE(PCE)											
	AOC9-MW06	T	6	0	2.5E-03	2.5E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW14	T	5	0	2.5E-03	2.5E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW15	T	5	0	2.5E-03	2.5E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW17	T	5	5	2.4E-03	2.0E-03	No	NT	S	N/A	N/A
	AOC9-MW19	S	3	0	2.5E-03	2.5E-03	Yes	N/A	N/A	N/A	N/A
	G009-MW01	T	4	0	2.5E-03	2.5E-03	Yes	ND	ND	N/A	N/A
	G009-MW02	T	5	0	2.5E-03	2.5E-03	Yes	ND	ND	N/A	N/A
TRICHLOROETHYLENE (TCE)											
	AOC9-MW06	T	6	5	1.4E-03	1.0E-03	No	NT	NT	N/A	N/A
	AOC9-MW14	T	5	4	7.9E-03	2.5E-03	No	NT	NT	N/A	N/A
	AOC9-MW15	T	5	3	1.9E-03	2.0E-03	No	S	S	N/A	N/A
	AOC9-MW17	T	5	5	1.6E-02	1.4E-02	No	NT	S	N/A	N/A
	AOC9-MW19	S	3	2	1.2E-03	5.0E-04	No	N/A	N/A	N/A	N/A
	G009-MW01	T	4	3	1.2E-03	8.8E-04	No	S	PD	N/A	N/A
	G009-MW02	T	5	4	1.3E-03	8.8E-04	No	S	S	N/A	N/A

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); Source/Tail (S/T)

The Number of Samples and Number of Detects shown above are post-consolidation values.

MAROS Site Results

Project: Griffiss AOC 9

User Name: M Fronckowiak

Location: Rome

State: New York

User Defined Site and Data Assumptions:

Hydrogeology and Plume Information:

Groundwater Seepage Velocity: 87.5 ft/yr

Current Plume Length: 840 ft

Current Plume Width 400 ft

Number of Tail Wells: 6

Number of Source Wells: 1

Down-gradient Information:

Distance from Edge of Tail to Nearest:

Down-gradient receptor: 1 ft

Down-gradient property: 1 ft

Distance from Source to Nearest:

Down-gradient receptor: 1140 ft

Down-gradient property: 1140 ft

Source Information:

Source Treatment: In-situ Biodegradation

NAPL is not observed at this site.

Data Consolidation Assumptions:

Time Period: 12/18/1997 **to** 9/25/2012
Consolidation Period: No Time Consolidation
Consolidation Type: Median
Duplicate Consolidation: Average
ND Values: Detection Limit
J Flag Values : Actual Value

Plume Information Weighting Assumptions:

Consolidation Step 1. Weight Plume Information by Chemical

Summary Weighting: Weighting Applied to All Chemicals Equally

Consolidation Step 2. Weight Well Information by Chemical

Well Weighting: No Weighting of Wells was Applied.
Chemical Weighting: No Weighting of Chemicals was Applied.

Note: These assumptions were made when consolidating the historical montoring data and lumping the Wells and COCs.

1. Compliance Monitoring/Remediation Optimization Results:

Preliminary Monitoring System Optimization Results: Based on site classification, source treatment and Monitoring System Category the following suggestions are made for site Sampling Frequency, Duration of Sampling before reassessment, and Well Density. These criteria take into consideration: Plume Stability, Type of Plume, and Groundwater Velocity.

COC	Tail Stability	Source Stability	Level of Effort	Sampling Duration	Sampling Frequency	Sampling Density
1,2-DICHLOROBENZENE	PD	S	L	Remove treatment system if previously reducing concentation	No Recommendation	24
1,4-DICHLOROBENZENE	D	I	M	Remediate indefinitely or consider increasing	No Recommendation	24
CHLOROBENZENE	D	PI	M	Remediate indefinitely or consider increasing	No Recommendation	24
TETRACHLOROETHYLENE(PCE)	D	ND		Continue remediation mechanism unitl reach stable trend or PRG	No Recommendation	24
TRICHLOROETHYLENE (TCE)	S	NT	M	Remove treatment system if previously reducing concentation	No Recommendation	24

Note:

Plume Status: (I) Increasing; (PI)Probably Increasing; (S) Stable; (NT) No Trend; (PD) Probably Decreasing; (D) Decreasing

Design Categories: (E) Extensive; (M) Moderate; (L) Limited (N/A) Not Applicable, Insufficient Data Available

Level of Monitoring Effort Indicated by Analysis Moderate

2. Spatial Moment Analysis Results:

Moment Type	Constituent	Coefficient of Variation	Mann-Kendall S Statistic	Confidence in Trend	Moment Trend
Zeroth Moment: Mass					
	1,2-DICHLOROBENZENE	3.00	0	46.0%	NT
	1,4-DICHLOROBENZENE	3.00	0	46.0%	NT
	CHLOROBENZENE	3.00	0	46.0%	NT
	TETRACHLOROETHYLENE(PCE)	3.00	0	46.0%	NT
	TRICHLOROETHYLENE (TCE)	3.00	0	46.0%	NT
1st Moment: Distance to Source					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A
2nd Moment: Sigma XX					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A
2nd Moment: Sigma YY					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A

Note: The following assumptions were applied for the calculation of the Zeroth Moment:

Porosity: 0.40 **Saturated Thickness:** Uniform: 20 ft

Mann-Kendall Trend test performed on all sample events for each constituent. Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)-Due to insufficient Data (< 4 sampling events).

MAROS Linear Regression Statistics Summary

Project: Griffiss AOC 9

User Name: M Fronckowiak

Location: Rome

State: New York

Time Period: 12/18/1997 **to** 9/25/2012
Consolidation Period: No Time Consolidation
Consolidation Type: Median
Duplicate Consolidation: Average
ND Values: Detection Limit
J Flag Values : Actual Value

Well	Source/ Tail	Average Conc (mg/L)	Median Conc (mg/L)	Standard Deviation	All Samples "ND" ?	Ln Slope	Coefficient of Variation	Confidence in Trend	Concentration Trend
1,2-DICHLOROBENZENE									
AOC9-MW06	T	3.0E-03	3.0E-03	4.7E-19	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW14	T	7.7E-02	5.8E-02	6.1E-02	No	-9.3E-04	0.79	98.2%	D
AOC9-MW15	T	4.4E-02	4.3E-02	2.2E-02	No	-4.0E-04	0.50	88.7%	S
AOC9-MW17	T	6.5E-02	6.7E-02	1.7E-02	No	6.7E-05	0.26	65.0%	NT
AOC9-MW19	S	5.7E-03	6.0E-03	1.3E-03	No	-6.2E-05	0.23	52.6%	S
G009-MW01	T	1.2E-03	6.8E-04	1.2E-03	No	-1.6E-04	1.04	67.3%	NT
G009-MW02	T	3.0E-03	3.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
1,4-DICHLOROBENZENE									
AOC9-MW06	T	3.0E-03	3.0E-03	4.7E-19	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW14	T	5.4E-02	4.3E-02	3.7E-02	No	-7.8E-04	0.68	98.4%	D
AOC9-MW15	T	4.9E-02	4.3E-02	3.6E-02	No	-8.3E-04	0.72	98.8%	D
AOC9-MW17	T	2.4E-02	2.3E-02	8.2E-03	No	6.2E-05	0.34	61.0%	NT
AOC9-MW19	S	4.2E-03	4.3E-03	9.6E-04	No	1.1E-03	0.23	99.0%	I
G009-MW01	T	3.0E-03	3.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
G009-MW02	T	3.0E-03	3.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
CHLOROBENZENE									
AOC9-MW06	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW14	T	8.0E-01	6.5E-01	6.5E-01	No	-1.0E-03	0.82	97.2%	D
AOC9-MW15	T	8.7E-01	6.9E-01	6.5E-01	No	-8.7E-04	0.75	98.4%	D
AOC9-MW17	T	4.3E-01	3.8E-01	2.0E-01	No	1.1E-04	0.46	65.0%	NT
AOC9-MW19	S	2.6E-02	2.6E-02	1.2E-02	No	1.9E-03	0.45	92.3%	PI
G009-MW01	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
G009-MW02	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
TETRACHLOROETHYLENE(PCE)									
AOC9-MW06	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW14	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW15	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW17	T	2.4E-03	2.1E-03	1.1E-03	No	-1.1E-04	0.45	62.4%	S
AOC9-MW19	S	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
G009-MW01	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
G009-MW02	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
TRICHLOROETHYLENE (TCE)									
AOC9-MW06	T	1.7E-03	1.0E-03	1.5E-03	No	1.1E-04	0.86	74.1%	NT
AOC9-MW14	T	7.2E-03	3.4E-03	1.0E-02	No	-5.0E-04	1.44	75.3%	NT
AOC9-MW15	T	2.5E-03	2.0E-03	2.1E-03	No	-8.5E-04	0.86	87.6%	S

Project: Griffiss AOC 9 **User Name:** M Fronckowiak

Location: Rome **State:** New York

Well	Source/ Tail	Average Conc (mg/L)	Median Conc (mg/L)	Standard Deviation	All Samples "ND" ?	Ln Slope	Coefficient of Variation	Confidence in Trend	Concentration Trend
TRICHLOROETHYLENE (TCE)									
AOC9-MW17	T	1.6E-02	1.7E-02	3.4E-03	No	-3.4E-05	0.21	59.4%	S
AOC9-MW19	S	1.6E-03	5.0E-04	2.3E-03	No	8.0E-04	1.43	57.1%	NT
G009-MW01	T	1.8E-03	8.8E-04	2.1E-03	No	-3.6E-04	1.15	88.5%	NT
G009-MW02	T	1.8E-03	8.8E-04	1.9E-03	No	-3.4E-04	1.03	91.8%	PD

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Non-detect (ND); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); COV = Coefficient of Variation

MAROS Mann-Kendall Statistics Summary

Project: Griffiss AOC 9

User Name: M Fronckowiak

Location: Rome

State: New York

Time Period: 12/18/1997 **to** 9/25/2012
Consolidation Period: No Time Consolidation
Consolidation Type: Median
Duplicate Consolidation: Average
ND Values: Detection Limit
J Flag Values : Actual Value

Well	Source/ Tail	Number of Samples	Number of Detects	Coefficient of Variation	Mann-Kendall Statistic	Confidence in Trend	All Samples "ND" ?	Concentration Trend
1,2-DICHLOROBENZENE								
AOC9-MW06	T	7	0	0.00	0	43.7%	Yes	ND
AOC9-MW14	T	6	6	0.79	-13	99.2%	No	D
AOC9-MW15	T	6	6	0.50	-7	86.4%	No	S
AOC9-MW17	T	6	6	0.26	7	86.4%	No	NT
AOC9-MW19	S	4	4	0.23	1	50.0%	No	NT
G009-MW01	T	4	3	1.04	0	37.5%	No	NT
G009-MW02	T	5	0	0.00	0	40.8%	Yes	ND
1,4-DICHLOROBENZENE								
AOC9-MW06	T	7	0	0.00	0	43.7%	Yes	ND
AOC9-MW14	T	6	6	0.68	-13	99.2%	No	D
AOC9-MW15	T	6	6	0.72	-13	99.2%	No	D
AOC9-MW17	T	6	6	0.34	-3	64.0%	No	S
AOC9-MW19	S	4	4	0.23	6	95.8%	No	I
G009-MW01	T	4	0	0.00	0	37.5%	Yes	ND
G009-MW02	T	5	0	0.00	0	40.8%	Yes	ND
CHLOROBENZENE								
AOC9-MW06	T	7	0	0.00	0	43.7%	Yes	ND
AOC9-MW14	T	6	6	0.82	-15	99.9%	No	D
AOC9-MW15	T	6	6	0.75	-15	99.9%	No	D
AOC9-MW17	T	6	6	0.46	-1	50.0%	No	S
AOC9-MW19	S	4	4	0.45	4	83.3%	No	NT
G009-MW01	T	4	0	0.00	0	37.5%	Yes	ND
G009-MW02	T	5	0	0.00	0	40.8%	Yes	ND
TETRACHLOROETHYLENE(PCE)								
AOC9-MW06	T	7	0	0.00	0	43.7%	Yes	ND
AOC9-MW14	T	6	0	0.00	0	42.3%	Yes	ND
AOC9-MW15	T	6	0	0.00	0	42.3%	Yes	ND
AOC9-MW17	T	6	6	0.45	2	57.0%	No	NT
AOC9-MW19	S	4	0	0.00	0	37.5%	Yes	ND
G009-MW01	T	4	0	0.00	0	37.5%	Yes	ND
G009-MW02	T	5	0	0.00	0	40.8%	Yes	ND
TRICHLOROETHYLENE (TCE)								
AOC9-MW06	T	7	6	0.86	8	84.5%	No	NT

Project: Griffiss AOC 9

User Name: M Fronckowiak

Location: Rome

State: New York

Well	Source/ Tail	Number of Samples	Number of Detects	Coefficient of Variation	Mann-Kendall Statistic	Confidence in Trend	All Samples "ND" ?	Concentration Trend
TRICHLOROETHYLENE (TCE)								
AOC9-MW14	T	6	5	1.44	-6	81.5%	No	NT
AOC9-MW15	T	6	4	0.86	-7	86.4%	No	S
AOC9-MW17	T	6	6	0.21	3	64.0%	No	NT
AOC9-MW19	S	4	3	1.43	-1	50.0%	No	NT
G009-MW01	T	4	3	1.15	-4	83.3%	No	NT
G009-MW02	T	5	4	1.03	-6	88.3%	No	NT

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)- Due to insufficient Data (< 4 sampling events); Source/Tail (S/T)

The Number of Samples and Number of Detects shown above are post-consolidation values.

MAROS Spatial Moment Analysis Summary

Project: Griffiss AOC 9

Location: Rome

User Name: M Fronckowiak

State: New York

	0th Moment	1st Moment (Center of Mass)			2nd Moment (Spread)		
Effective Date	Estimated Mass (Kg)	Xc (ft)	Yc (ft)	Source Distance (ft)	Sigma XX (sq ft)	Sigma YY (sq ft)	Number of Wells
1,2-DICHLOROBENZENE							
12/18/1997	0.0E+00						2
5/15/2000	0.0E+00						3
9/5/2004	0.0E+00						3
11/1/2006	0.0E+00						4
7/28/2010	7.2E-01	1,133,840	1,181,559	727	4,246	10,747	6
5/17/2011	0.0E+00						5
10/24/2011	0.0E+00						5
4/16/2012	0.0E+00						5
9/25/2012	0.0E+00						5
1,4-DICHLOROBENZENE							
12/18/1997	0.0E+00						2
5/15/2000	0.0E+00						3
9/5/2004	0.0E+00						3
11/1/2006	0.0E+00						4
7/28/2010	7.4E-01	1,133,833	1,181,574	723	4,604	12,803	6
5/17/2011	0.0E+00						5
10/24/2011	0.0E+00						5
4/16/2012	0.0E+00						5
9/25/2012	0.0E+00						5
CHLOROBENZENE							
12/18/1997	0.0E+00						2
5/15/2000	0.0E+00						3
9/5/2004	0.0E+00						3
11/1/2006	0.0E+00						4
7/28/2010	5.3E+00	1,133,847	1,181,587	704	3,117	11,265	6
5/17/2011	0.0E+00						5
10/24/2011	0.0E+00						5
4/16/2012	0.0E+00						5
9/25/2012	0.0E+00						5
TETRACHLOROETHYLENE(PCE)							
12/18/1997	0.0E+00						2
5/15/2000	0.0E+00						3
9/5/2004	0.0E+00						3
11/1/2006	0.0E+00						4
7/28/2010	2.0E-01	1,133,801	1,181,546	766	6,282	14,803	6

Project: Griffiss AOC 9

Location: Rome

User Name: M Fronckowiak

State: New York

	0th Moment	1st Moment (Center of Mass)			2nd Moment (Spread)		
Effective Date	Estimated Mass (kg)	Xc (ft)	Yc (ft)	Source Distance (ft)	Sigma XX (sq ft)	Sigma YY (sq ft)	Number of Wells
TETRACHLOROETHYLENE(PCE)							
5/17/2011	0.0E+00						5
10/24/2011	0.0E+00						5
4/16/2012	0.0E+00						5
9/25/2012	0.0E+00						5
TRICHLOROETHYLENE (TCE)							
12/18/1997	0.0E+00						2
5/15/2000	0.0E+00						3
9/5/2004	0.0E+00						3
11/1/2006	0.0E+00						4
7/28/2010	1.2E-01	1,133,822	1,181,554	744	5,937	13,616	6
5/17/2011	0.0E+00						5
10/24/2011	0.0E+00						5
4/16/2012	0.0E+00						5
9/25/2012	0.0E+00						5

Project: Griffiss AOC 9

Location: Rome

User Name: M Fronckowiak

State: New York

Moment Type	Constituent	Coefficient of Variation	Mann-Kendall S Statistic	Confidence in Trend	Moment Trend
Zeroth Moment: Mass					
	1,2-DICHLOROBENZENE	3.00	0	46.0%	NT
	1,4-DICHLOROBENZENE	3.00	0	46.0%	NT
	CHLOROBENZENE	3.00	0	46.0%	NT
	TETRACHLOROETHYLENE(PCE)	3.00	0	46.0%	NT
	TRICHLOROETHYLENE (TCE)	3.00	0	46.0%	NT
1st Moment: Distance to Source					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A
2nd Moment: Sigma XX					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A
2nd Moment: Sigma YY					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A

Note: The following assumptions were applied for the calculation of the Zeroth Moment:

Porosity: 0.40 **Saturated Thickness:** Uniform: 20 ft

Mann-Kendall Trend test performed on all sample events for each constituent. Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)-Due to insufficient Data (< 4 sampling events).

Note: The Sigma XX and Sigma YY components are estimated using the given field coordinate system and then rotated to align with the estimated groundwater flow direction. Moments are not calculated for sample events with less than 6 wells.

MAROS Statistical Trend Analysis Summary

Project: Griffiss AOC 9

Location: Rome

User Name: M Fronckowiak

State: New York

Time Period: 12/18/1997 **to** 9/25/2012

Consolidation Period: No Time Consolidation

Consolidation Type: Median

Duplicate Consolidation: Average

ND Values: Detection Limit

J Flag Values : Actual Value

Well	Source/ Tail	Number of Samples	Number of Detects	Average Conc. (mg/L)	Median Conc. (mg/L)	All Samples "ND" ?	Mann-Kendall Trend	Linear Regression Trend
1,2-DICHLOROBENZENE								
AOC9-MW06	T	7	0	3.0E-03	3.0E-03	Yes	ND	ND
AOC9-MW14	T	6	6	7.7E-02	5.8E-02	No	D	D
AOC9-MW15	T	6	6	4.4E-02	4.3E-02	No	S	S
AOC9-MW17	T	6	6	6.5E-02	6.7E-02	No	NT	NT
AOC9-MW19	S	4	4	5.7E-03	6.0E-03	No	NT	S
G009-MW01	T	4	3	1.2E-03	6.8E-04	No	NT	NT
G009-MW02	T	5	0	3.0E-03	3.0E-03	Yes	ND	ND
1,4-DICHLOROBENZENE								
AOC9-MW06	T	7	0	3.0E-03	3.0E-03	Yes	ND	ND
AOC9-MW14	T	6	6	5.4E-02	4.3E-02	No	D	D
AOC9-MW15	T	6	6	4.9E-02	4.3E-02	No	D	D
AOC9-MW17	T	6	6	2.4E-02	2.3E-02	No	S	NT
AOC9-MW19	S	4	4	4.2E-03	4.3E-03	No	I	I
G009-MW01	T	4	0	3.0E-03	3.0E-03	Yes	ND	ND
G009-MW02	T	5	0	3.0E-03	3.0E-03	Yes	ND	ND
CHLOROBENZENE								
AOC9-MW06	T	7	0	5.0E-03	5.0E-03	Yes	ND	ND
AOC9-MW14	T	6	6	8.0E-01	6.5E-01	No	D	D
AOC9-MW15	T	6	6	8.7E-01	6.9E-01	No	D	D
AOC9-MW17	T	6	6	4.3E-01	3.8E-01	No	S	NT
AOC9-MW19	S	4	4	2.6E-02	2.6E-02	No	NT	PI
G009-MW01	T	4	0	5.0E-03	5.0E-03	Yes	ND	ND
G009-MW02	T	5	0	5.0E-03	5.0E-03	Yes	ND	ND
TETRACHLOROETHYLENE(PCE)								
AOC9-MW06	T	7	0	5.0E-03	5.0E-03	Yes	ND	ND
AOC9-MW14	T	6	0	5.0E-03	5.0E-03	Yes	ND	ND
AOC9-MW15	T	6	0	5.0E-03	5.0E-03	Yes	ND	ND
AOC9-MW17	T	6	6	2.4E-03	2.1E-03	No	NT	S
AOC9-MW19	S	4	0	5.0E-03	5.0E-03	Yes	ND	ND
G009-MW01	T	4	0	5.0E-03	5.0E-03	Yes	ND	ND
G009-MW02	T	5	0	5.0E-03	5.0E-03	Yes	ND	ND
TRICHLOROETHYLENE (TCE)								

MAROS Statistical Trend Analysis Summary

Well	Source/ Tail	Number of Samples	Number of Detects	Average Conc. (mg/L)	Median Conc. (mg/L)	All Samples "ND" ?	Mann-Kendall Trend	Linear Regression Trend
TRICHLOROETHYLENE (TCE)								
AOC9-MW06	T	7	6	1.7E-03	1.0E-03	No	NT	NT
AOC9-MW14	T	6	5	7.2E-03	3.4E-03	No	NT	NT
AOC9-MW15	T	6	4	2.5E-03	2.0E-03	No	S	S
AOC9-MW17	T	6	6	1.6E-02	1.7E-02	No	NT	S
AOC9-MW19	S	4	3	1.6E-03	5.0E-04	No	NT	NT
G009-MW01	T	4	3	1.8E-03	8.8E-04	No	NT	NT
G009-MW02	T	5	4	1.8E-03	8.8E-04	No	NT	PD

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); No Detectable Concentration (NDC)

The Number of Samples and Number of Detects shown above are post-consolidation values.

MAROS Plume Analysis Summary

Project: Griffiss AOC 9

Location: Rome

User Name: M Fronckowiak

State: New York

Time Period: 12/18/1997 **to** 9/25/2012

Consolidation Period: No Time Consolidation

Consolidation Type: Median

Duplicate Consolidation: Average

ND Values: Detection Limit

J Flag Values : Actual Value

Constituent	Well	Source/ Tail	Number of Samples	Number of Detects	Average (mg/L)	Median (mg/L)	All Samples "ND" ?	Mann-Kendall	Linear Regression	Modeling	Empirical
1,2-DICHLOROBENZENE											
	AOC9-MW06	T	7	0	3.0E-03	3.0E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW14	T	6	6	7.7E-02	5.8E-02	No	D	D	N/A	N/A
	AOC9-MW15	T	6	6	4.4E-02	4.3E-02	No	S	S	N/A	N/A
	AOC9-MW17	T	6	6	6.5E-02	6.7E-02	No	NT	NT	N/A	N/A
	AOC9-MW19	S	4	4	5.7E-03	6.0E-03	No	NT	S	N/A	N/A
	G009-MW01	T	4	3	1.2E-03	6.8E-04	No	NT	NT	N/A	N/A
	G009-MW02	T	5	0	3.0E-03	3.0E-03	Yes	ND	ND	N/A	N/A
1,4-DICHLOROBENZENE											
	AOC9-MW06	T	7	0	3.0E-03	3.0E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW14	T	6	6	5.4E-02	4.3E-02	No	D	D	N/A	N/A
	AOC9-MW15	T	6	6	4.9E-02	4.3E-02	No	D	D	N/A	N/A
	AOC9-MW17	T	6	6	2.4E-02	2.3E-02	No	S	NT	N/A	N/A
	AOC9-MW19	S	4	4	4.2E-03	4.3E-03	No	I	I	N/A	N/A
	G009-MW01	T	4	0	3.0E-03	3.0E-03	Yes	ND	ND	N/A	N/A
	G009-MW02	T	5	0	3.0E-03	3.0E-03	Yes	ND	ND	N/A	N/A
CHLOROBENZENE											
	AOC9-MW06	T	7	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW14	T	6	6	8.0E-01	6.5E-01	No	D	D	N/A	N/A
	AOC9-MW15	T	6	6	8.7E-01	6.9E-01	No	D	D	N/A	N/A
	AOC9-MW17	T	6	6	4.3E-01	3.8E-01	No	S	NT	N/A	N/A
	AOC9-MW19	S	4	4	2.6E-02	2.6E-02	No	NT	PI	N/A	N/A

Project: Griffiss AOC 9 **User Name:** M Fronckowiak

Location: Rome **State:** New York

Constituent	Well	Source/ Tail	Number of Samples	Number of Detects	Average (mg/L)	Median (mg/L)	All Samples "ND" ?	Mann-Kendall	Linear Regression	Modeling	Empirical
CHLOROBENZENE											
	G009-MW01	T	4	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
	G009-MW02	T	5	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
TETRACHLOROETHYLENE(PCE)											
	AOC9-MW06	T	7	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW14	T	6	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW15	T	6	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW17	T	6	6	2.4E-03	2.1E-03	No	NT	S	N/A	N/A
	AOC9-MW19	S	4	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
	G009-MW01	T	4	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
	G009-MW02	T	5	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
TRICHLOROETHYLENE (TCE)											
	AOC9-MW06	T	7	6	1.7E-03	1.0E-03	No	NT	NT	N/A	N/A
	AOC9-MW14	T	6	5	7.2E-03	3.4E-03	No	NT	NT	N/A	N/A
	AOC9-MW15	T	6	4	2.5E-03	2.0E-03	No	S	S	N/A	N/A
	AOC9-MW17	T	6	6	1.6E-02	1.7E-02	No	NT	S	N/A	N/A
	AOC9-MW19	S	4	3	1.6E-03	5.0E-04	No	NT	NT	N/A	N/A
	G009-MW01	T	4	3	1.8E-03	8.8E-04	No	NT	NT	N/A	N/A
	G009-MW02	T	5	4	1.8E-03	8.8E-04	No	NT	PD	N/A	N/A

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); Source/Tail (S/T)

The Number of Samples and Number of Detects shown above are post-consolidation values.

ENVIRONMENT AND ECOLOGY, INC.
FORMER GRIFFIS AFB, AOC 9
SF2129

KATAHDIN ANALYTICAL SERVICES, INC.
600 TECHNOLOGY WAY
SCARBOROUGH, ME 04074

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SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
ECOLOGY AND ENVIRONMENT, INC
FORMER GRIFFISS AIR FORCE BASE, AOC 9
SF2129

Sample Receipt

The following samples were received on April 18, 2012 and were logged in under Katahdin Analytical Services work order number SF2129 for a hardcopy due date of May 07, 2012.

KATAHDIN Sample No.	URS CORPORATION Sample Identification
SF2129-1	AOC9-TB1-04162012
SF2129-2	AOC9-SW03PM04162012
SF2129-3	AOC9-SW02PM04162012
SF2129-4	AOC9-SW01PM04162012
SF2129-5	AOC9-MW06PM04162012
SF2129-6	AOC9-MW17PM04172012
SF2129-7	MW17/DPM04172012
SF2129-8	AOC9-MW15PM04172012
SF2129-9	AOC9-MW14PM04172012
SF2129-10	AOC9-MW19PM04172012

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 NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Some of the client IDs on the Chain of Custody exceeds the 19-character limit of the Katahdin Analytical Information Management System. Therefore, the first characters "AOC9-" in the client ID for SF2129-7 were omitted on all forms.

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, **Ms. Kelly Perkins**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of Work Order SF2129 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and

Emergency Response, U.S. EPA, and/or for the specific methods listed below or on the Report of Analysis.

Sample SF2129-9 was used for the matrix spike (MS) and matrix spike duplicate (MSD), as per client request.

8260B Analysis

Samples SF2129-2, 6DL, 8DL, 9 and 10 were manually integrated for the target analytes acetone, benzene and/or 1,3-dichlorobenzene. The specific reasons for the manual integrations are indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

The initial calibration analyzed on the D instrument on 4/16/2012 had %RSD values for several analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or quadratic model was used for quantitation instead of an average response factor. The %RSD value for acetone also exceeded the method acceptance limit of 15%. This analyte met the acceptance criteria for the linear and quadratic calibration models. Although the %RSD is greater than 15%, acetone was calibrated with the average model since this calibration model is more accurate for this analyte at concentrations near the reporting limit than either the linear or quadratic calibration models. The corresponding independent check standard (file D9537a) had a high concentration for the target analyte methylene chloride and a low concentration for the target analyte 1,4-dioxane, which exceeded the DoD QSM acceptance limit of ±20% of the expected value from the ICAL. The independent check standard is the same source as the LCS. There were two analytical batches associated with this initial calibration and the LCS recoveries were evaluated. Since the associated LCS's (WG107276-1 and WG107338-1) had acceptable recoveries for the analytes methylene chloride and 1,4-dioxane, no further action was taken

The calibration verification standard (CV) (file D9676) had a low response for the compound 1,4-dioxane. The CV (file D9710) had low responses for the compounds bromomethane, 1,4-dioxane and naphthalene and had a high response for the surrogate p-bromofluorobenzene. These responses resulted in %D's that were greater than the DoD QSM version 4.1 acceptance limits of 20%. Since the associated LCS's (WG107276-1 and WG107338-1) had recoveries that were within the laboratory established acceptance limits, no further action was taken.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these acceptance limits. Katahdin standard operating procedure is to take corrective action only if the number of spiked analytes in the LCS that are outside of the QC limits is greater than the DoD QSM allowable number of exceedances. If the associated MS/MSD has greater than the allowable number of exceedances, no corrective action is taken, as long as the LCS is acceptable.

There were no other protocol deviations or observations noted by the organics laboratory staff.

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 Operations Manager or the Quality Assurance Officer as verified by the following signature.

Leslie Dimond
050912

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, Inc.

Sample Receipt Condition Report

Client: Ecology + Environment	KAS PM: JO	Sampled By: Client
Project:	KIMS Entry By: GN	Delivered By: Fed-Ex
KAS Work Order#: 5F2129	KIMS Review By:	Received By: GN
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 4-18-12 / 09:00

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): 4.9
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
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 analysis.
6. Volatiles free of headspace:	✓				
Aqueous: No bubble larger than a pea	✓				
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
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				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

000006

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 #
Ecology & Environment, Inc.	Bob Meyers	(716)684-8060	(716)684-0844

Address	City	State	Zip Code
368 Pleasant View Dr.	Lancaster	NY	14086

Purchase Order # | Proj. Name / No. Griffiss-AOC9/EE-003186-0001-04TTO | Katahdin Quote # EE-003186-0001-04TTO

Bill (if different than above) | Address

Sampler (Print / Sign) M. Horanburg / L. Roedl | Copies To: Bob Meyers

LAB USE ONLY | WORK ORDER #: SF2129 | 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.	VOCs (SW8260B) Preserved: HCl	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	ANALYSIS AND CONTAINER TYPE PRESERVATIVES
	AOC9-TB1-04162012	4/16/12/1330	GW	3	X											*trip blanks arrived with bubble in vials.
	AOC9-SWD3PM04162012	4/16/12/1405	SW	3	X											
	AOC9-SWD2PM04162012	4/16/12/1415	SW	3	X											
	AOC9-SWD1PM04162012	4/16/12/1425	SW	3	X											
	AOC9-MW06PM04162012	4/16/12/1640	GW	3	X											
	AOC9-MW17PM04172012	4/17/12/1035	GW	3	X											
	AOC9-MW17DPM04172012	4/17/12/1035	GW	3	X											
	AOC9-MW15PM04172012	4/17/12/1225	GW	3	X											
	AOC9-MW14PM04172012	4/17/12/1515	GW	9	X											*xtra volume for MS/MSD
	AOC9-MW19PM04172012	4/17/12/1705	GW	3	X											
		/														
		/														
		/														
		/														
		/														
		/														

M. Horanburg 4/17/12

COMMENTS

Airbill #: 8718 1635 6853

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
M. Horanburg	4/17/12 1720	4-18-12 0900			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
					000007

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

ORIGINAL

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Apr. 18, 2012
12:35 PM

Login Number: SF2129

Account: ENE001 NoWeb
Ecology and Environment, Inc.

Project: ENEGFS
Former Griffiss Air Force Base, AOC 9

Primary Report Address:
Robert Meyers
Ecology and Environment, Inc.
368 Pleasant View Dr.

Lancaster,NY 14086
RMeyers@ene.com

Primary Invoice Address:
Accounts Payable
Ecology and Environment, Inc.
368 Pleasant View Dr.

Lancaster,NY 14086

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming: ENGRF

Login Information:

ANALYSIS INSTRUCTIONS	:	DoD QSM w/lab limits.
CHECK NO.	:	
CLIENT PO#	:	002888.PI02.09
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	4.9
DELIVERY SERVICES	:	Fedex
EDD FORMAT	:	KAS103QC-TXT
LOGIN INITIALS	:	GN
PM	:	JO
PROJECT NAME	:	Former Griffiss Air Force Base, AOC 9
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send HC & CD.
SDG ID	:	
SDG STATUS	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SF2129-1	AOC9-TB1-04162012	16-APR-12 13:30	18-APR-12			07-MAY-12	
Matrix	*Product*	*Hold Date (shortest)*	*Bottle Type*		*Bottle Count*		*Comments*
Aqueous S	SW8260OLM-S	30-APR-12	40mL Vial+HCl				DOD
SF2129-2	AOC9-SW03PM04162012	16-APR-12 14:05	18-APR-12			07-MAY-12	
Matrix	*Product*	*Hold Date (shortest)*	*Bottle Type*		*Bottle Count*		*Comments*
Aqueous S	SW8260OLM-S	30-APR-12	40mL Vial+HCl				DOD
SF2129-3	AOC9-SW02PM04162012	16-APR-12 14:15	18-APR-12			07-MAY-12	
Matrix	*Product*	*Hold Date (shortest)*	*Bottle Type*		*Bottle Count*		*Comments*
Aqueous S	SW8260OLM-S	30-APR-12	40mL Vial+HCl				DOD
SF2129-4	AOC9-SW01PM04162012	16-APR-12 14:25	18-APR-12			07-MAY-12	
Matrix	*Product*	*Hold Date (shortest)*	*Bottle Type*		*Bottle Count*		*Comments*
Aqueous S	SW8260OLM-S	30-APR-12	40mL Vial+HCl				DOD
SF2129-5	AOC9-MW06PM04162012	16-APR-12 16:40	18-APR-12			07-MAY-12	
Matrix	*Product*	*Hold Date (shortest)*	*Bottle Type*		*Bottle Count*		*Comments*
Aqueous S	SW8260OLM-S	30-APR-12	40mL Vial+HCl				DOD
SF2129-6	AOC9-MW17PM04172012	17-APR-12 10:35	18-APR-12			07-MAY-12	
Matrix	*Product*	*Hold Date (shortest)*	*Bottle Type*		*Bottle Count*		*Comments*
Aqueous S	SW8260OLM-S	01-MAY-12	40mL Vial+HCl				DOD
SF2129-7	MW17/DPM04172012	17-APR-12 10:35	18-APR-12			07-MAY-12	
Matrix	*Product*	*Hold Date (shortest)*	*Bottle Type*		*Bottle Count*		*Comments*
Aqueous S	SW8260OLM-S	01-MAY-12	40mL Vial+HCl				DOD AOC9-MW17/DPM04172012

04-18-12

000008

Login Number: SF2129 Quote/Incoming: ENGRF

Account: ENE001 NoWeb

Ecology and Environment, Inc.

Project: ENEGFS

Former Griffiss Air Force Base, AOC 9

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SF2129-8	AOC9-MW15PM04172012	17-APR-12 12:25	18-APR-12			07-MAY-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260OLM-S	01-MAY-12	40mL Vial+HCl		DOD

SF2129-9	AOC9-MW14PM04172012	17-APR-12 15:15	18-APR-12			07-MAY-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260OLM-S	01-MAY-12	40mL Vial+HCl		DOD MS/MSD

SF2129-10	AOC9-MW19PM04172012	17-APR-12 17:05	18-APR-12			07-MAY-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260OLM-S	01-MAY-12	40mL Vial+HCl		DOD

Total Samples: *10* ***Total Analyses:*** *10*

04.18.12

0000089

SAMPLE DATA SUMMARY PACKAGE

KATAHDIN ANALYTICAL SERVICES - ORGANIC 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 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%.

* Compound recovery 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 Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-1
Client ID: AOC9-TB1-04162012
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9688.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-1
Client ID: AOC9-TB1-04162012
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9688.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		102.	%					
Toluene-d8		109.	%					
P-Bromofluorobenzene		114.	%					
Dibromofluoromethane		99.9	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-2
Client ID: AOC9-SW03PM0416201
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9689.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	J	2.9	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-2
Client ID: AOC9-SW03PM0416201
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9689.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		101.	%					
Toluene-d8		110.	%					
P-Bromofluorobenzene		116.	%					
Dibromofluoromethane		99.8	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-3
Client ID: AOC9-SW02PM0416201
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9690.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	J	3.2	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-3
Client ID: AOC9-SW02PM0416201
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9690.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		104.	%					
Toluene-d8		109.	%					
P-Bromofluorobenzene		115.	%					
Dibromofluoromethane		101.	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-4
Client ID: AOC9-SW01PM0416201
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9691.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	J	2.5	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-4
Client ID: AOC9-SW01PM0416201
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9691.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		104.	%					
Toluene-d8		110.	%					
P-Bromofluorobenzene		115.	%					
Dibromofluoromethane		103.	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-5
Client ID: AOC9-MW06PM041620
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9692.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-5
Client ID: AOC9-MW06PM041620
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9692.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		106.	%					
Toluene-d8		109.	%					
P-Bromofluorobenzene		115.	%					
Dibromofluoromethane		101.	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-6
Client ID: AOC9-MW17PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9729.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	J	1.2	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		3.9	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene		1.6	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		20.	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene		4.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-6
Client ID: AOC9-MW17PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9729.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	E	300	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	J	0.91	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		15.	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		67.	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		101.	%					
Toluene-d8		109.	%					
P-Bromofluorobenzene		117.	%					
Dibromofluoromethane		99.4	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-6DL
Client ID: AOC9-MW17PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9694.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	10.	ug/L	5	2	10.	1.2	5.0
Chloromethane	U	10.	ug/L	5	2	10.	1.8	5.0
Vinyl Chloride	U	10.	ug/L	5	2	10.	1.2	5.0
Bromomethane	U	10.	ug/L	5	2	10.	2.4	5.0
Chloroethane	U	10.	ug/L	5	2	10.	2.8	5.0
Trichlorofluoromethane	U	10.	ug/L	5	2	10.	1.2	5.0
1,1-Dichloroethene	U	5.0	ug/L	5	1	5.0	1.8	2.5
Freon-113	U	5.0	ug/L	5	1	5.0	1.6	2.5
Acetone	U	25.	ug/L	5	5	25.	11.	12.
Carbon Disulfide	U	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl Acetate	U	5.0	ug/L	5	1	5.0	2.6	3.8
Methylene Chloride	U	25.	ug/L	5	5	25.	5.6	12.
trans-1,2-Dichloroethene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl tert-butyl Ether	U	5.0	ug/L	5	1	5.0	1.8	2.5
1,1-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
cis-1,2-Dichloroethene	J	3.5	ug/L	5	1	5.0	1.0	2.5
2-Butanone	U	25.	ug/L	5	5	25.	6.6	12.
Chloroform	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,1,1-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Cyclohexane	U	5.0	ug/L	5	1	5.0	1.6	2.5
Carbon Tetrachloride	U	5.0	ug/L	5	1	5.0	1.1	2.5
Benzene	J	1.3	ug/L	5	1	5.0	1.3	2.5
1,2-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Trichloroethene		32.	ug/L	5	1	5.0	1.4	2.5
Methylcyclohexane	U	5.0	ug/L	5	1	5.0	1.5	2.5
1,2-Dichloropropane	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromodichloromethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
cis-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	0.95	2.5
4-Methyl-2-Pentanone	U	25.	ug/L	5	5	25.	6.6	12.
Toluene	U	5.0	ug/L	5	1	5.0	1.4	2.5
trans-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,1,2-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
Tetrachloroethene	U	5.0	ug/L	5	1	5.0	2.0	2.5
2-Hexanone	U	25.	ug/L	5	5	25.	8.5	12.
Dibromochloromethane	U	5.0	ug/L	5	1	5.0	1.5	2.5

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-6DL
Client ID: AOC9-MW17PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9694.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	5.0	ug/L	5	1	5.0	1.1	2.5
Chlorobenzene		270	ug/L	5	1	5.0	1.1	2.5
Ethylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
M+P-Xylenes	U	10.	ug/L	5	2	10.	3.0	5.0
o-Xylene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Styrene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromoform	U	5.0	ug/L	5	1	5.0	1.2	2.5
Isopropylbenzene	U	5.0	ug/L	5	1	5.0	1.2	2.5
1,1,2,2-Tetrachloroethane	U	5.0	ug/L	5	1	5.0	1.9	2.5
1,3-Dichlorobenzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
1,4-Dichlorobenzene		13.	ug/L	5	1	5.0	1.2	2.5
1,2-Dichlorobenzene		53.	ug/L	5	1	5.0	0.75	2.5
1,2-Dibromo-3-Chloropropane	U	5.0	ug/L	5	1	5.0	2.5	2.5
1,2,4-Trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.8	2.5
bromochloromethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,4-Dioxane	U	500	ug/L	5	100	500	44.	250
1,2,3-trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.4	2.5
1,3,5-Trimethylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,2,4-Trimethylbenzene	U	5.0	ug/L	5	1	5.0	0.95	2.5
4-Chlorotoluene	U	5.0	ug/L	5	1	5.0	0.95	2.5
n-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.2	2.5
n-Propylbenzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
Naphthalene	U	5.0	ug/L	5	1	5.0	1.5	2.5
p-Isopropyltoluene	U	5.0	ug/L	5	1	5.0	1.2	2.5
sec-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
tert-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,2-Dichloroethane-d4		108.	%					
Toluene-d8		109.	%					
P-Bromofluorobenzene		115.	%					
Dibromofluoromethane		102.	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-7
Client ID: MW17/DPM04172012
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9728.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	J	1.3	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		3.8	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene		1.6	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		19.	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene		3.8	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-7
Client ID: MW17/DPM04172012
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9728.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	E	300	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		15.	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		64.	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		99.0	%					
Toluene-d8		108.	%					
P-Bromofluorobenzene		116.	%					
Dibromofluoromethane		98.8	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-7DL
Client ID: MW17/DPM04172012
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9695.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	10.	ug/L	5	2	10.	1.2	5.0
Chloromethane	U	10.	ug/L	5	2	10.	1.8	5.0
Vinyl Chloride	U	10.	ug/L	5	2	10.	1.2	5.0
Bromomethane	U	10.	ug/L	5	2	10.	2.4	5.0
Chloroethane	U	10.	ug/L	5	2	10.	2.8	5.0
Trichlorofluoromethane	U	10.	ug/L	5	2	10.	1.2	5.0
1,1-Dichloroethene	U	5.0	ug/L	5	1	5.0	1.8	2.5
Freon-113	U	5.0	ug/L	5	1	5.0	1.6	2.5
Acetone	U	25.	ug/L	5	5	25.	11.	12.
Carbon Disulfide	U	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl Acetate	U	5.0	ug/L	5	1	5.0	2.6	3.8
Methylene Chloride	U	25.	ug/L	5	5	25.	5.6	12.
trans-1,2-Dichloroethene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl tert-butyl Ether	U	5.0	ug/L	5	1	5.0	1.8	2.5
1,1-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
cis-1,2-Dichloroethene	J	3.2	ug/L	5	1	5.0	1.0	2.5
2-Butanone	U	25.	ug/L	5	5	25.	6.6	12.
Chloroform	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,1,1-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Cyclohexane	U	5.0	ug/L	5	1	5.0	1.6	2.5
Carbon Tetrachloride	U	5.0	ug/L	5	1	5.0	1.1	2.5
Benzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
1,2-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Trichloroethene		30.	ug/L	5	1	5.0	1.4	2.5
Methylcyclohexane	U	5.0	ug/L	5	1	5.0	1.5	2.5
1,2-Dichloropropane	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromodichloromethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
cis-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	0.95	2.5
4-Methyl-2-Pentanone	U	25.	ug/L	5	5	25.	6.6	12.
Toluene	U	5.0	ug/L	5	1	5.0	1.4	2.5
trans-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,1,2-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
Tetrachloroethene	U	5.0	ug/L	5	1	5.0	2.0	2.5
2-Hexanone	U	25.	ug/L	5	5	25.	8.5	12.
Dibromochloromethane	U	5.0	ug/L	5	1	5.0	1.5	2.5

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-7DL
Client ID: MW17/DPM04172012
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9695.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	5.0	ug/L	5	1	5.0	1.1	2.5
Chlorobenzene		270	ug/L	5	1	5.0	1.1	2.5
Ethylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
M+P-Xylenes	U	10.	ug/L	5	2	10.	3.0	5.0
o-Xylene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Styrene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromoform	U	5.0	ug/L	5	1	5.0	1.2	2.5
Isopropylbenzene	U	5.0	ug/L	5	1	5.0	1.2	2.5
1,1,2,2-Tetrachloroethane	U	5.0	ug/L	5	1	5.0	1.9	2.5
1,3-Dichlorobenzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
1,4-Dichlorobenzene		14.	ug/L	5	1	5.0	1.2	2.5
1,2-Dichlorobenzene		51.	ug/L	5	1	5.0	0.75	2.5
1,2-Dibromo-3-Chloropropane	U	5.0	ug/L	5	1	5.0	2.5	2.5
1,2,4-Trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.8	2.5
bromochloromethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,4-Dioxane	U	500	ug/L	5	100	500	44.	250
1,2,3-trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.4	2.5
1,3,5-Trimethylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,2,4-Trimethylbenzene	U	5.0	ug/L	5	1	5.0	0.95	2.5
4-Chlorotoluene	U	5.0	ug/L	5	1	5.0	0.95	2.5
n-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.2	2.5
n-Propylbenzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
Naphthalene	U	5.0	ug/L	5	1	5.0	1.5	2.5
p-Isopropyltoluene	U	5.0	ug/L	5	1	5.0	1.2	2.5
sec-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
tert-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,2-Dichloroethane-d4		108.	%					
Toluene-d8		109.	%					
P-Bromofluorobenzene		114.	%					
Dibromofluoromethane		104.	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-8
Client ID: AOC9-MW15PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9727.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	J	1.6	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	J	0.76	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene		1.4	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-8
Client ID: AOC9-MW15PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9727.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	E	320	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene		1.4	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.3	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		17.	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		19.	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene		1.1	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	J	0.42	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		99.9	%					
Toluene-d8		110.	%					
P-Bromofluorobenzene		121.	%					
Dibromofluoromethane		98.7	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-8DL
Client ID: AOC9-MW15PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9719.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	8.0	ug/L	4	2	8.0	0.96	4.0
Chloromethane	U	8.0	ug/L	4	2	8.0	1.4	4.0
Vinyl Chloride	U	8.0	ug/L	4	2	8.0	1.0	4.0
Bromomethane	U	8.0	ug/L	4	2	8.0	2.0	4.0
Chloroethane	U	8.0	ug/L	4	2	8.0	2.2	4.0
Trichlorofluoromethane	U	8.0	ug/L	4	2	8.0	0.96	4.0
1,1-Dichloroethene	U	4.0	ug/L	4	1	4.0	1.4	2.0
Freon-113	U	4.0	ug/L	4	1	4.0	1.2	2.0
Acetone	U	20.	ug/L	4	5	20.	8.8	10.
Carbon Disulfide	U	4.0	ug/L	4	1	4.0	1.0	2.0
Methyl Acetate	U	4.0	ug/L	4	1	4.0	2.1	3.0
Methylene Chloride	U	20.	ug/L	4	5	20.	4.5	10.
trans-1,2-Dichloroethene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Methyl tert-butyl Ether	U	4.0	ug/L	4	1	4.0	1.4	2.0
1,1-Dichloroethane	U	4.0	ug/L	4	1	4.0	0.84	2.0
cis-1,2-Dichloroethene	U	4.0	ug/L	4	1	4.0	0.84	2.0
2-Butanone	U	20.	ug/L	4	5	20.	5.2	10.
Chloroform	U	4.0	ug/L	4	1	4.0	1.3	2.0
1,1,1-Trichloroethane	U	4.0	ug/L	4	1	4.0	0.80	2.0
Cyclohexane	U	4.0	ug/L	4	1	4.0	1.2	2.0
Carbon Tetrachloride	U	4.0	ug/L	4	1	4.0	0.88	2.0
Benzene	J	1.5	ug/L	4	1	4.0	1.0	2.0
1,2-Dichloroethane	U	4.0	ug/L	4	1	4.0	0.80	2.0
Trichloroethene	U	4.0	ug/L	4	1	4.0	1.1	2.0
Methylcyclohexane	U	4.0	ug/L	4	1	4.0	1.2	2.0
1,2-Dichloropropane	U	4.0	ug/L	4	1	4.0	1.0	2.0
Bromodichloromethane	U	4.0	ug/L	4	1	4.0	1.3	2.0
cis-1,3-Dichloropropene	U	4.0	ug/L	4	1	4.0	0.76	2.0
4-Methyl-2-Pentanone	U	20.	ug/L	4	5	20.	5.3	10.
Toluene	U	4.0	ug/L	4	1	4.0	1.1	2.0
trans-1,3-Dichloropropene	U	4.0	ug/L	4	1	4.0	0.80	2.0
1,1,2-Trichloroethane	U	4.0	ug/L	4	1	4.0	1.3	2.0
Tetrachloroethene	U	4.0	ug/L	4	1	4.0	1.6	2.0
2-Hexanone	U	20.	ug/L	4	5	20.	6.8	10.
Dibromochloromethane	U	4.0	ug/L	4	1	4.0	1.2	2.0

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-8DL
Client ID: AOC9-MW15PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9719.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	4.0	ug/L	4	1	4.0	0.88	2.0
Chlorobenzene		320	ug/L	4	1	4.0	0.88	2.0
Ethylbenzene	U	4.0	ug/L	4	1	4.0	0.84	2.0
M+P-Xylenes	U	8.0	ug/L	4	2	8.0	2.4	4.0
o-Xylene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Styrene	U	4.0	ug/L	4	1	4.0	0.92	2.0
Bromoform	U	4.0	ug/L	4	1	4.0	0.92	2.0
Isopropylbenzene	J	1.4	ug/L	4	1	4.0	0.92	2.0
1,1,2,2-Tetrachloroethane	U	4.0	ug/L	4	1	4.0	1.5	2.0
1,3-Dichlorobenzene	J	1.4	ug/L	4	1	4.0	1.0	2.0
1,4-Dichlorobenzene		16.	ug/L	4	1	4.0	0.96	2.0
1,2-Dichlorobenzene		17.	ug/L	4	1	4.0	0.60	2.0
1,2-Dibromo-3-Chloropropane	U	4.0	ug/L	4	1	4.0	2.0	2.0
1,2,4-Trichlorobenzene	U	4.0	ug/L	4	1	4.0	1.5	2.0
bromochloromethane	U	4.0	ug/L	4	1	4.0	0.84	2.0
1,4-Dioxane	U	400	ug/L	4	100	400	35.	200
1,2,3-trichlorobenzene	U	4.0	ug/L	4	1	4.0	1.1	2.0
1,3,5-Trimethylbenzene	U	4.0	ug/L	4	1	4.0	0.80	2.0
1,2,4-Trimethylbenzene	U	4.0	ug/L	4	1	4.0	0.76	2.0
4-Chlorotoluene	U	4.0	ug/L	4	1	4.0	0.76	2.0
n-Butylbenzene	U	4.0	ug/L	4	1	4.0	0.92	2.0
n-Propylbenzene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Naphthalene	U	4.0	ug/L	4	1	4.0	1.2	2.0
p-Isopropyltoluene	U	4.0	ug/L	4	1	4.0	1.0	2.0
sec-Butylbenzene	J	0.97	ug/L	4	1	4.0	0.84	2.0
tert-Butylbenzene	U	4.0	ug/L	4	1	4.0	1.2	2.0
1,2-Dichloroethane-d4		101.	%					
Toluene-d8		108.	%					
P-Bromofluorobenzene		118.	%					
Dibromofluoromethane		97.0	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-9
Client ID: AOC9-MW14PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9726.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		1.6	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.43	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	J	0.55	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-9
Client ID: AOC9-MW14PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9726.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene		200	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	J	0.28	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	J	0.58	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.1	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		20.	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		22.	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	J	0.33	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	J	0.70	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	J	0.75	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		97.0	%					
Toluene-d8		107.	%					
P-Bromofluorobenzene		118.	%					
Dibromofluoromethane		96.2	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-10
Client ID: AOC9-MW19PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9693.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride		2.9	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		12.	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.90	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-10
Client ID: AOC9-MW19PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9693.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene		33.	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		4.5	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		3.8	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		108.	%					
Toluene-d8		109.	%					
P-Bromofluorobenzene		115.	%					
Dibromofluoromethane		105.	%					

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Report of Analytical Results

Client:
Lab ID: WG107276-2
Client ID: Method Blank Sample
Project:
SDG: SF2129
Lab File ID: D9680.D

Sample Date:
Received Date:
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5

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Report of Analytical Results

Client:
Lab ID: WG107276-2
Client ID: Method Blank Sample
Project:
SDG: SF2129
Lab File ID: D9680.D

Sample Date:
Received Date:
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		105.	%					
Toluene-d8		110.	%					
P-Bromofluorobenzene		114.	%					
Dibromofluoromethane		102.	%					

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Report of Analytical Results

Client:
Lab ID: WG107338-2
Client ID: Method Blank Sample
Project:
SDG: SF2129
Lab File ID: D9715.D

Sample Date:
Received Date:
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5

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Report of Analytical Results

Client:
Lab ID: WG107338-2
Client ID: Method Blank Sample
Project:
SDG: SF2129
Lab File ID: D9715.D

Sample Date:
Received Date:
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		105.	%					
Toluene-d8		107.	%					
P-Bromofluorobenzene		115.	%					
Dibromofluoromethane		102.	%					

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Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Former Griffiss Air Force Base, AOC 9 **Matrix:** AQ
Lab Code: KAS **SDG:** SF2129

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
AOC9-TB1-04162012	SF2129-1		114.		99.9		102.		109.	
AOC9-MW19PM04172012	SF2129-10		115.		105.		108.		109.	
AOC9-SW03PM04162012	SF2129-2		116.		99.8		101.		110.	
AOC9-SW02PM04162012	SF2129-3		115.		101.		104.		109.	
AOC9-SW01PM04162012	SF2129-4		115.		103.		104.		110.	
AOC9-MW06PM04162012	SF2129-5		115.		101.		106.		109.	
AOC9-MW17PM04172012	SF2129-6		117.		99.4		101.		109.	
AOC9-MW17PM04172012	SF2129-6DL		115.		102.		108.		109.	
MW17/DPM04172012	SF2129-7		116.		98.8		99.0		108.	
MW17/DPM04172012	SF2129-7DL		114.		104.		108.		109.	
AOC9-MW15PM04172012	SF2129-8		121.		98.7		99.9		110.	
AOC9-MW15PM04172012	SF2129-8DL		118.		97.0		101.		108.	
AOC9-MW14PM04172012	SF2129-9		118.		96.2		97.0		107.	
Laboratory Control S	WG107276-1		118.		97.7		99.2		109.	
Method Blank Sample	WG107276-2		114.		102.		105.		110.	
Laboratory Control S	WG107338-1		121.		96.0		96.8		108.	
Method Blank Sample	WG107338-2		115.		102.		105.		107.	
Matrix Spike	WG107338-3		126.		95.7		100.		108.	
Matrix Spike Duplica	WG107338-4		124.		97.7		99.4		110.	

		QC Limits
DBF	DIBROMOFLUOROMETHANE	68-128
BFB	P-BROMOFLUOROBENZENE	56-133
TOL	TOLUENE-D8	65-128
DCA	1,2-DICHLOROETHANE-D4	67-135

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

LCS Recovery Report

Client:
Lab ID: WG107276-1
Client ID: LCS
Project:
SDG: SF2129

Sample Date:
Received Date: 23-APR-12
Extract Date:
Extracted By: MMM
Extraction Method: SW846 8260B
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	104.	50.0	52.2	ug/L	29-164
Chloromethane	98.2	50.0	49.1	ug/L	59-123
Vinyl Chloride	111.	50.0	55.3	ug/L	64-131
Bromomethane	104.	50.0	51.8	ug/L	57-135
Chloroethane	101.	50.0	50.6	ug/L	53-157
Trichlorofluoromethane	92.2	50.0	46.1	ug/L	70-149
1,1-Dichloroethene	98.4	50.0	49.2	ug/L	88-127
Freon-113	104.	50.0	51.9	ug/L	73-126
Acetone	80.8	50.0	40.4	ug/L	62-172
Carbon Disulfide	86.0	50.0	43.0	ug/L	71-129
Methyl Acetate	119.	50.0	59.4	ug/L	70-132
Methylene Chloride	97.2	50.0	48.6	ug/L	72-129
trans-1,2-Dichloroethene	85.6	50.0	42.8	ug/L	78-125
Methyl tert-butyl Ether	105.	100.	105.	ug/L	81-125
1,1-Dichloroethane	92.2	50.0	46.1	ug/L	76-130
cis-1,2-Dichloroethene	87.8	50.0	43.9	ug/L	85-123
2-Butanone	116.	50.0	57.8	ug/L	71-132
Chloroform	89.8	50.0	44.9	ug/L	78-128
1,1,1-Trichloroethane	88.8	50.0	44.4	ug/L	77-129
Cyclohexane	91.4	50.0	45.7	ug/L	71-133
Carbon Tetrachloride	89.2	50.0	44.6	ug/L	87-126
Benzene	90.0	50.0	45.0	ug/L	86-116
1,2-Dichloroethane	95.6	50.0	47.8	ug/L	81-125
Trichloroethene	84.2	50.0	42.1	ug/L	79-121
Methylcyclohexane	105.	50.0	52.4	ug/L	73-125
1,2-Dichloropropane	94.2	50.0	47.1	ug/L	84-118
Bromodichloromethane	96.6	50.0	48.3	ug/L	85-122
cis-1,3-Dichloropropene	100.	50.0	50.0	ug/L	83-119
4-Methyl-2-Pentanone	118.	50.0	59.1	ug/L	83-122
Toluene	91.0	50.0	45.5	ug/L	84-118
trans-1,3-Dichloropropene	97.6	50.0	48.8	ug/L	85-135
1,1,2-Trichloroethane	98.6	50.0	49.3	ug/L	84-115
Tetrachloroethene	80.6	50.0	40.3	ug/L	47-155
2-Hexanone	111.	50.0	55.6	ug/L	80-124
Dibromochloromethane	98.2	50.0	49.1	ug/L	85-119

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LCS Recovery Report

Client:
Lab ID: WG107276-1
Client ID: LCS
Project:
SDG: SF2129

Sample Date:
Received Date: 23-APR-12
Extract Date:
Extracted By: MMM
Extraction Method: SW846 8260B
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,2-Dibromoethane	98.2	50.0	49.1	ug/L	84-116
Chlorobenzene	93.0	50.0	46.5	ug/L	89-113
Ethylbenzene	* 85.2	50.0	42.6	ug/L	88-113
M+P-Xylenes	88.3	100.	88.3	ug/L	88-116
o-Xylene	93.8	50.0	46.9	ug/L	90-116
Styrene	96.0	50.0	48.0	ug/L	88-117
Bromoform	91.2	50.0	45.6	ug/L	86-117
Isopropylbenzene	99.0	50.0	49.5	ug/L	96-136
1,1,2,2-Tetrachloroethane	94.2	50.0	47.1	ug/L	79-121
1,3-Dichlorobenzene	* 83.6	50.0	41.8	ug/L	86-110
1,4-Dichlorobenzene	* 82.8	50.0	41.4	ug/L	86-111
1,2-Dichlorobenzene	86.8	50.0	43.4	ug/L	86-112
1,2-Dibromo-3-Chloropropane	87.0	50.0	43.5	ug/L	67-124
1,2,4-Trichlorobenzene	86.2	50.0	43.1	ug/L	76-126
bromochloromethane	94.2	50.0	47.1	ug/L	85-117
1,4-Dioxane	76.7	1000	767.	ug/L	10-149
1,2,3-trichlorobenzene	90.0	50.0	45.0	ug/L	70-122
1,3,5-Trimethylbenzene	83.8	50.0	41.9	ug/L	80-123
1,2,4-Trimethylbenzene	85.4	50.0	42.7	ug/L	83-118
4-Chlorotoluene	88.0	50.0	44.0	ug/L	81-122
n-Butylbenzene	84.6	50.0	42.3	ug/L	84-121
n-Propylbenzene	87.8	50.0	43.9	ug/L	83-121
Naphthalene	82.6	50.0	41.3	ug/L	62-126
p-Isopropyltoluene	91.2	50.0	45.6	ug/L	88-121
sec-Butylbenzene	84.4	50.0	42.2	ug/L	82-122
tert-Butylbenzene	88.0	50.0	44.0	ug/L	84-121
1,2-Dichloroethane-d4	99.2				67-135
Toluene-d8	109.				65-128
P-Bromofluorobenzene	118.				56-133
Dibromofluoromethane	97.7				68-128

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LCS Recovery Report

Client:
Lab ID: WG107338-1
Client ID: LCS
Project:
SDG: SF2129

Sample Date:
Received Date: 24-APR-12
Extract Date:
Extracted By: MMM
Extraction Method: SW846 8260B
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	111.	50.0	55.7	ug/L	29-164
Chloromethane	99.6	50.0	49.8	ug/L	59-123
Vinyl Chloride	116.	50.0	58.2	ug/L	64-131
Bromomethane	103.	50.0	51.5	ug/L	57-135
Chloroethane	106.	50.0	52.9	ug/L	53-157
Trichlorofluoromethane	98.4	50.0	49.2	ug/L	70-149
1,1-Dichloroethene	104.	50.0	51.8	ug/L	88-127
Freon-113	98.8	50.0	49.4	ug/L	73-126
Acetone	104.	50.0	52.2	ug/L	62-172
Carbon Disulfide	92.2	50.0	46.1	ug/L	71-129
Methyl Acetate	132.	50.0	65.8	ug/L	70-132
Methylene Chloride	104.	50.0	52.2	ug/L	72-129
trans-1,2-Dichloroethene	93.2	50.0	46.6	ug/L	78-125
Methyl tert-butyl Ether	111.	100.	111.	ug/L	81-125
1,1-Dichloroethane	99.2	50.0	49.6	ug/L	76-130
cis-1,2-Dichloroethene	95.4	50.0	47.7	ug/L	85-123
2-Butanone	132.	50.0	65.9	ug/L	71-132
Chloroform	98.0	50.0	49.0	ug/L	78-128
1,1,1-Trichloroethane	95.2	50.0	47.6	ug/L	77-129
Cyclohexane	98.6	50.0	49.3	ug/L	71-133
Carbon Tetrachloride	95.6	50.0	47.8	ug/L	87-126
Benzene	97.0	50.0	48.5	ug/L	86-116
1,2-Dichloroethane	106.	50.0	53.0	ug/L	81-125
Trichloroethene	89.4	50.0	44.7	ug/L	79-121
Methylcyclohexane	100.	50.0	50.2	ug/L	73-125
1,2-Dichloropropane	103.	50.0	51.5	ug/L	84-118
Bromodichloromethane	106.	50.0	52.9	ug/L	85-122
cis-1,3-Dichloropropene	110.	50.0	55.1	ug/L	83-119
4-Methyl-2-Pentanone	* 134.	50.0	67.0	ug/L	83-122
Toluene	98.8	50.0	49.4	ug/L	84-118
trans-1,3-Dichloropropene	106.	50.0	52.9	ug/L	85-135
1,1,2-Trichloroethane	109.	50.0	54.6	ug/L	84-115
Tetrachloroethene	84.8	50.0	42.4	ug/L	47-155
2-Hexanone	122.	50.0	61.1	ug/L	80-124
Dibromochloromethane	108.	50.0	54.2	ug/L	85-119

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LCS Recovery Report

Client:
Lab ID: WG107338-1
Client ID: LCS
Project:
SDG: SF2129

Sample Date:
Received Date: 24-APR-12
Extract Date:
Extracted By: MMM
Extraction Method: SW846 8260B
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,2-Dibromoethane	111.	50.0	55.4	ug/L	84-116
Chlorobenzene	100.	50.0	50.0	ug/L	89-113
Ethylbenzene	90.6	50.0	45.3	ug/L	88-113
M+P-Xylenes	94.0	100.	94.0	ug/L	88-116
o-Xylene	99.2	50.0	49.6	ug/L	90-116
Styrene	102.	50.0	51.0	ug/L	88-117
Bromoform	102.	50.0	50.9	ug/L	86-117
Isopropylbenzene	107.	50.0	53.5	ug/L	96-136
1,1,2,2-Tetrachloroethane	106.	50.0	53.1	ug/L	79-121
1,3-Dichlorobenzene	90.4	50.0	45.2	ug/L	86-110
1,4-Dichlorobenzene	88.4	50.0	44.2	ug/L	86-111
1,2-Dichlorobenzene	94.6	50.0	47.3	ug/L	86-112
1,2-Dibromo-3-Chloropropane	102.	50.0	50.9	ug/L	67-124
1,2,4-Trichlorobenzene	93.2	50.0	46.6	ug/L	76-126
bromochloromethane	106.	50.0	53.1	ug/L	85-117
1,4-Dioxane	83.8	1000	838.	ug/L	10-149
1,2,3-trichlorobenzene	97.4	50.0	48.7	ug/L	70-122
1,3,5-Trimethylbenzene	91.0	50.0	45.5	ug/L	80-123
1,2,4-Trimethylbenzene	91.8	50.0	45.9	ug/L	83-118
4-Chlorotoluene	94.4	50.0	47.2	ug/L	81-122
n-Butylbenzene	91.2	50.0	45.6	ug/L	84-121
n-Propylbenzene	94.6	50.0	47.3	ug/L	83-121
Naphthalene	91.0	50.0	45.5	ug/L	62-126
p-Isopropyltoluene	97.6	50.0	48.8	ug/L	88-121
sec-Butylbenzene	91.0	50.0	45.5	ug/L	82-122
tert-Butylbenzene	93.8	50.0	46.9	ug/L	84-121
1,2-Dichloroethane-d4	96.8				67-135
Toluene-d8	108.				65-128
P-Bromofluorobenzene	121.				56-133
Dibromofluoromethane	96.0				68-128

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MS/MSD Recovery Report

MS ID: WG107338-3
MSD ID: WG107338-4
Sample ID: SF2129-9
Client ID: AOC9-MW14PM04172012
Project:
SDG: SF2129

Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338
Report Date: 03-MAY-12

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Dichlorodifluoromethane	50.0	50.0	ug/L	U2.0	61.7	67.4	123.	135.	9	20	29-164
Chloromethane	50.0	50.0	ug/L	U2.0	54.8	60.6	110.	121.	10	20	59-123
Vinyl Chloride	50.0	50.0	ug/L	U2.0	67.5	72.7	135.*	145.*	7	20	64-131
Bromomethane	50.0	50.0	ug/L	U2.0	53.0	60.3	106.	121.	13	20	57-135
Chloroethane	50.0	50.0	ug/L	U2.0	59.8	62.2	120.	124.	4	20	53-157
Trichlorofluoromethane	50.0	50.0	ug/L	U2.0	56.6	59.4	113.	119.	5	20	70-149
1,1-Dichloroethene	50.0	50.0	ug/L	U1.0	58.5	61.6	117.	123.	5	20	88-127
Freon-113	50.0	50.0	ug/L	U1.0	56.8	58.9	114.	118.	4	20	73-126
Acetone	50.0	50.0	ug/L	U5.0	45.9	52.5	91.8	105.	13	20	62-172
Carbon Disulfide	50.0	50.0	ug/L	U1.0	52.7	55.4	105.	111.	5	20	71-129
Methyl Acetate	50.0	50.0	ug/L	U1.0	61.6	65.3	123.	131.	6	20	70-132
Methylene Chloride	50.0	50.0	ug/L	U5.0	56.7	58.8	113.	118.	4	20	72-129
trans-1,2-Dichloroethene	50.0	50.0	ug/L	U1.0	51.2	54.0	102.	108.	5	20	78-125
Methyl tert-butyl Ether	100.	100.	ug/L	U1.0	111.	121.	111.	121.	9	20	81-125
1,1-Dichloroethane	50.0	50.0	ug/L	U1.0	54.1	56.0	108.	112.	3	20	76-130
cis-1,2-Dichloroethene	50.0	50.0	ug/L	1.6	53.7	56.5	104.	110.	5	20	85-123
2-Butanone	50.0	50.0	ug/L	U5.0	67.3	71.0	135.*	142.*	5	20	71-132
Chloroform	50.0	50.0	ug/L	U1.0	52.8	54.5	106.	109.	3	20	78-128
1,1,1-Trichloroethane	50.0	50.0	ug/L	U1.0	53.3	56.0	107.	112.	5	20	77-129
Cyclohexane	50.0	50.0	ug/L	U1.0	58.0	61.6	116.	123.	6	20	71-133
Carbon Tetrachloride	50.0	50.0	ug/L	U1.0	53.2	57.3	106.	115.	7	20	87-126
Benzene	50.0	50.0	ug/L	J0.43	53.7	56.5	106.	112.	5	20	86-116
1,2-Dichloroethane	50.0	50.0	ug/L	U1.0	56.1	57.1	112.	114.	2	20	81-125
Trichloroethene	50.0	50.0	ug/L	U1.0	50.7	52.7	101.	105.	4	20	79-121
Methylcyclohexane	50.0	50.0	ug/L	J0.55	59.9	61.8	119.	122.	3	20	73-125
1,2-Dichloropropane	50.0	50.0	ug/L	U1.0	54.6	57.5	109.	115.	5	20	84-118
Bromodichloromethane	50.0	50.0	ug/L	U1.0	56.0	58.3	112.	117.	4	20	85-122
cis-1,3-Dichloropropene	50.0	50.0	ug/L	U1.0	53.4	56.6	107.	113.	6	20	83-119
4-Methyl-2-Pentanone	50.0	50.0	ug/L	U5.0	69.4	73.1	139.*	146.*	5	20	83-122
Toluene	50.0	50.0	ug/L	U1.0	54.6	57.1	109.	114.	4	20	84-118
trans-1,3-Dichloropropene	50.0	50.0	ug/L	U1.0	53.7	56.4	107.	113.	5	20	85-135
1,1,2-Trichloroethane	50.0	50.0	ug/L	U1.0	59.3	61.1	119.*	122.*	3	20	84-115
Tetrachloroethene	50.0	50.0	ug/L	U1.0	44.1	46.3	88.2	92.6	5	20	47-155
2-Hexanone	50.0	50.0	ug/L	U5.0	59.5	63.8	119.	128.*	7	20	80-124

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MS/MSD Recovery Report

MS ID: WG107338-3
MSD ID: WG107338-4
Sample ID: SF2129-9
Client ID: AOC9-MW14PM04172012
Project:
SDG: SF2129

Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338
Report Date: 03-MAY-12

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Dibromochloromethane	50.0	50.0	ug/L	U1.0	51.8	54.5	104.	109.	5	20	85-119
1,2-Dibromoethane	50.0	50.0	ug/L	U1.0	58.9	61.2	118.*	122.*	4	20	84-116
Chlorobenzene	50.0	50.0	ug/L	200	281.	275.	158.*	146.*	2	20	89-113
Ethylbenzene	50.0	50.0	ug/L	J0.28	46.5	48.7	92.4	96.8	5	20	88-113
M+P-Xylenes	100.	100.	ug/L	U2.0	97.1	100.	97.1	100.	3	20	88-116
o-Xylene	50.0	50.0	ug/L	U1.0	50.9	52.9	102.	106.	4	20	90-116
Styrene	50.0	50.0	ug/L	U1.0	52.1	53.2	104.	106.	2	20	88-117
Bromoform	50.0	50.0	ug/L	U1.0	49.4	51.6	98.8	103.	4	20	86-117
Isopropylbenzene	50.0	50.0	ug/L	J0.58	60.3	63.0	119.	125.	4	20	96-136
1,1,2,2-Tetrachloroethane	50.0	50.0	ug/L	U1.0	56.0	59.4	112.	119.	6	20	79-121
1,3-Dichlorobenzene	50.0	50.0	ug/L	1.1	49.7	52.4	97.2	103.	5	20	86-110
1,4-Dichlorobenzene	50.0	50.0	ug/L	20.	70.7	72.9	102.	107.	3	20	86-111
1,2-Dichlorobenzene	50.0	50.0	ug/L	22.	79.1	80.7	113.*	117.*	2	20	86-112
1,2-Dibromo-3-Chloropropane	50.0	50.0	ug/L	U1.0	53.0	56.6	106.	113.	6	20	67-124
1,2,4-Trichlorobenzene	50.0	50.0	ug/L	U1.0	49.2	51.0	98.4	102.	4	20	76-126
bromochloromethane	50.0	50.0	ug/L	U1.0	56.0	57.3	112.	115.	2	20	85-117
1,4-Dioxane	1000	1000	ug/L	U100	323.	848.	32.3	84.8	90*	20	10-149
1,2,3-trichlorobenzene	50.0	50.0	ug/L	U1.0	51.3	54.0	103.	108.	5	20	70-122
1,3,5-Trimethylbenzene	50.0	50.0	ug/L	U1.0	48.7	51.0	97.4	102.	5	20	80-123
1,2,4-Trimethylbenzene	50.0	50.0	ug/L	U1.0	49.1	51.2	98.2	102.	4	20	83-118
4-Chlorotoluene	50.0	50.0	ug/L	U1.0	50.5	52.6	101.	105.	4	20	81-122
n-Butylbenzene	50.0	50.0	ug/L	J0.33	49.9	51.6	99.1	102.	3	20	84-121
n-Propylbenzene	50.0	50.0	ug/L	J0.70	52.9	55.3	104.	109.	4	20	83-121
Naphthalene	50.0	50.0	ug/L	U1.0	48.3	51.1	96.6	102.	6	20	62-126
p-Isopropyltoluene	50.0	50.0	ug/L	U1.0	52.8	55.5	106.	111.	5	20	88-121
sec-Butylbenzene	50.0	50.0	ug/L	J0.75	52.1	53.9	103.	106.	3	20	82-122
tert-Butylbenzene	50.0	50.0	ug/L	U1.0	51.8	53.9	104.	108.	4	20	84-121
1,2-Dichloroethane-d4							100.	99.4			67-135
Toluene-d8							108.	110.			65-128
P-Bromofluorobenzene							126.	124.			56-133
Dibromofluoromethane							95.7	97.7			68-128

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Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : D9680.D
Instrument ID : GCMS-D
Heated Purge : No

SDG : SF2129
Lab Sample ID : WG107276-2
Date Analyzed : 23-APR-12
Time Analyzed : 11:39

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG107276-1	D9677.D	04/23/12	09:59
AOC9-TB1-04162012	SF2129-1	D9688.D	04/23/12	15:43
AOC9-SW03PM04162012	SF2129-2	D9689.D	04/23/12	16:11
AOC9-SW02PM04162012	SF2129-3	D9690.D	04/23/12	16:39
AOC9-SW01PM04162012	SF2129-4	D9691.D	04/23/12	17:08
AOC9-MW06PM04162012	SF2129-5	D9692.D	04/23/12	17:36
AOC9-MW19PM04172012	SF2129-10	D9693.D	04/23/12	18:04
AOC9-MW17PM04172012	SF2129-6DL	D9694.D	04/23/12	18:32
MW17/DPM04172012	SF2129-7DL	D9695.D	04/23/12	19:01

Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : D9715.D
Instrument ID : GCMS-D
Heated Purge : No

SDG : SF2129
Lab Sample ID : WG107338-2
Date Analyzed : 24-APR-12
Time Analyzed : 11:43

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG107338-1	D9712.D	04/24/12	10:00
AOC9-MW15PM04172012	SF2129-8DL	D9719.D	04/24/12	13:35
AOC9-MW14PM04172012	SF2129-9	D9726.D	04/24/12	16:53
AOC9-MW15PM04172012	SF2129-8	D9727.D	04/24/12	17:21
MW17/DPM04172012	SF2129-7	D9728.D	04/24/12	17:49
AOC9-MW17PM04172012	SF2129-6	D9729.D	04/24/12	18:17
Matrix Spike	WG107338-3	D9730.D	04/24/12	18:46
Matrix Spike Duplica	WG107338-4	D9731.D	04/24/12	19:14

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : DB880.D
Instrument ID : GCMS-D

SDG : SF2129
Date Analyzed : 16-APR-12
Time Analyzed : 09:58
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	22.5		
75	30.0 - 60.0% of mass 95	53.4		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.5		
173	Less than 2.0% of mass 95	0.0	0.0	1
174	Greater than 50.0% of mass 95	70.3		
175	5.0 - 9.0% of mass 174	5.0	7.07	1
176	95.0 - 101.0% of mass 174	68.4	97.38	1
177	5.0 - 9.0% of mass 176	4.3	6.31	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	WG107009-6	D9530.D	04/16/12	10:26
Initial Calibration	WG107009-5	D9531.D	04/16/12	10:54
Initial Calibration	WG107009-4	D9532.D	04/16/12	11:22
Initial Calibration	WG107009-3	D9533.D	04/16/12	11:50
Initial Calibration	WG107009-2	D9534.D	04/16/12	12:28
Initial Calibration	WG107009-1	D9536.D	04/16/12	13:44
Independent Source	WG107009-9	D9537A.D	04/16/12	14:30

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : DB885.D
Instrument ID : GCMS-D

SDG : SF2129
Date Analyzed : 23-APR-12
Time Analyzed : 08:57
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.5		
75	30.0 - 60.0% of mass 95	52.3		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.1		
173	Less than 2.0% of mass 95	0.0	0.0	1
174	Greater than 50.0% of mass 95	70.8		
175	5.0 - 9.0% of mass 174	5.7	8.03	1
176	95.0 - 101.0% of mass 174	70.4	99.35	1
177	5.0 - 9.0% of mass 176	3.9	5.56	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	WG107276-4	D9676.D	04/23/12	09:20
Laboratory Control S	WG107276-1	D9677.D	04/23/12	09:59
Method Blank Sample	WG107276-2	D9680.D	04/23/12	11:39
AOC9-TB1-04162012	SF2129-1	D9688.D	04/23/12	15:43
AOC9-SW03PM04162012	SF2129-2	D9689.D	04/23/12	16:11
AOC9-SW02PM04162012	SF2129-3	D9690.D	04/23/12	16:39
AOC9-SW01PM04162012	SF2129-4	D9691.D	04/23/12	17:08
AOC9-MW06PM04162012	SF2129-5	D9692.D	04/23/12	17:36
AOC9-MW19PM04172012	SF2129-10	D9693.D	04/23/12	18:04
AOC9-MW17PM04172012	SF2129-6DL	D9694.D	04/23/12	18:32
MW17/DPM04172012	SF2129-7DL	D9695.D	04/23/12	19:01

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : DB886.D
Instrument ID : GCMS-D

SDG : SF2129
Date Analyzed : 24-APR-12
Time Analyzed : 08:14
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	22.6		
75	30.0 - 60.0% of mass 95	48.4		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.2		
173	Less than 2.0% of mass 95	0.0	0.0	1
174	Greater than 50.0% of mass 95	69.0		
175	5.0 - 9.0% of mass 174	5.4	7.88	1
176	95.0 - 101.0% of mass 174	67.2	97.32	1
177	5.0 - 9.0% of mass 176	4.8	7.08	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	WG107338-7	D9710.D	04/24/12	08:38
Laboratory Control S	WG107338-1	D9712.D	04/24/12	10:00
Method Blank Sample	WG107338-2	D9715.D	04/24/12	11:43
AOC9-MW15PM04172012	SF2129-8DL	D9719.D	04/24/12	13:35
AOC9-MW14PM04172012	SF2129-9	D9726.D	04/24/12	16:53
AOC9-MW15PM04172012	SF2129-8	D9727.D	04/24/12	17:21
MW17/DPM04172012	SF2129-7	D9728.D	04/24/12	17:49
AOC9-MW17PM04172012	SF2129-6	D9729.D	04/24/12	18:17
Matrix Spike	WG107338-3	D9730.D	04/24/12	18:46
Matrix Spike Duplica	WG107338-4	D9731.D	04/24/12	19:14

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SF2129
Project : Former Griffiss Air Force Base, AOC 9 **Instrument ID:** GCMS-D
Lab File IDs : D9536.DD9534.DD9533.D **Calibration Date(s):** 16-APR-12 10:26
D9532.DD9531.DD9530.D 16-APR-12 13:44

	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	New Crv	b	m1	m2	%RSD	Max %RSD	
Dichlorodifluoromethane	0.77966	0.65591	0.64790	0.59798	0.59171	0.60731	AVG		0.64674		10.87079	15.00000	O
Chloromethane	1.06828	0.86586	0.83386	0.78051	0.79071	0.80892	AVG		0.85802		12.53118	15.00000	O
Vinyl chloride	10267	41161	173113	376622	788813	1341741	LNR	-0.0143:	0.73862		0.99984	0.99000	O
Bromomethane	0.62629	0.45548	0.49801	0.53753	0.59629	0.56667	AVG		0.54671		11.55920	15.00000	O
Chloroethane	0.68773	0.53794	0.52481	0.49228	0.51578	0.52852	AVG		0.54784		12.82544	15.00000	O
Trichlorofluoromethane	1.29296	0.94214	0.98062	0.93861	1.04687	1.12706	AVG		1.05471		12.97932	15.00000	O
1,1-Dichloroethene	7261	27331	113612	274952	596052	1122552	LNR	0.04528	0.61539		0.99777	0.99000	O
Carbon Disulfide	27628	97329	417237	1041466	2229704	3992775	LNR	0.02588	2.19767		0.99944	0.99000	O
Freon-113	4671	18142	72436	175500	394762	749701	LNR	0.05639	0.41137		0.99693	0.99000	O
Methylene Chloride	8474	34747	120180	338770	599258	1034753	LNR	-0.0294:	0.56942		0.99846	0.99000	O
Acetone	0.19575	0.13166	0.09017	0.10736	0.12672	0.11597	AVG		0.12794		28.41146	15.00000	WO
trans-1,2-Dichloroethene	8716	33528	114793	326088	580769	1032364	LNR	-0.0158:	0.56639		0.99874	0.99000	O
Methyl tert-butyl ether	1.37822	1.35204	1.10119	1.32177	1.40826	1.30648	AVG		1.31133		8.34092	15.00000	O
1,1-Dichloroethane	1.33953	1.00608	0.98157	0.99955	1.01350	1.08526	AVG		1.07091		12.73058	15.00000	O
cis-1,2-Dichloroethene	0.72431	0.58642	0.58556	0.60255	0.60519	0.64407	AVG		0.62468		8.52046	15.00000	O
Bromochloromethane	0.28872	0.22603	0.22659	0.22155	0.21856	0.24116	AVG		0.23710		11.15894	15.00000	O
Chloroform	1.20146	0.91349	0.93284	0.93998	0.93787	0.99850	AVG		0.98736		11.00998	15.00000	O
Carbon Tetrachloride	0.46216	0.34534	0.35213	0.37087	0.39771	0.43301	AVG		0.39354		11.82942	15.00000	O
1,1,1-Trichloroethane	1.06969	0.77547	0.79136	0.81807	0.84563	0.91711	AVG		0.86955		12.65063	15.00000	O
2-Butanone	8084	40378	142707	409441	1106802	1776427	LNR	0.25077	0.20066		0.99534	0.99000	O
Benzene	1.63622	1.33364	1.31267	1.34977	1.44122	1.46786	AVG		1.42356		8.50692	15.00000	O
Cyclohexane	1.09943	0.92785	0.94513	0.97730	0.99973	1.11247	AVG		1.01032		7.74676	15.00000	O
1,2-Dichloroethane	0.44957	0.37047	0.34997	0.36389	0.39773	0.41957	AVG		0.39187		9.63442	15.00000	O
Trichloroethene	7710	30242	118635	300411	669659	1334455	LNR	0.07159	0.40122		0.99567	0.99000	O
1,2-Dichloropropane	0.36942	0.30163	0.29991	0.31671	0.33850	0.36077	AVG		0.33116		9.01089	15.00000	O
Bromodichloromethane	0.43186	0.35597	0.37777	0.40268	0.43804	0.47003	AVG		0.41272		10.18460	15.00000	O
cis-1,3-dichloropropene	0.42562	0.42724	0.46990	0.50863	0.56248	0.60012	AVG		0.49900		14.37547	15.00000	O
1,4-Dioxane	1541	6390	20816	47879	112682	+++++	LNR	0.38345	0.00297		0.99387	0.99000	O
Toluene	1.01871	0.82718	0.83383	0.85611	0.92723	0.97663	AVG		0.90662		8.83104	15.00000	O
4-methyl-2-pentanone	14388	80647	331162	962070	2542944	4054740	QUA	0.33881	3.57185	0.08348	0.99479	0.99000	O
Tetrachloroethene	7942	24209	90246	225863	527903	1122532	LNR	0.03932	0.29050		0.99813	0.99000	O
trans-1,3-Dichloropropene	6205	30986	143482	387436	894391	1684451	LNR	0.06725	0.51038		0.99765	0.99000	O
1,1,2-Trichloroethane	0.24573	0.20443	0.20004	0.21557	0.25516	0.26896	AVG		0.23165		12.42403	15.00000	O
Dibromochloromethane	0.28187	0.25453	0.26089	0.28613	0.31255	0.29955	AVG		0.28259		7.84370	15.00000	O
1,2-Dibromoethane	0.26721	0.22878	0.22430	0.24680	0.29031	0.29617	AVG		0.25893		11.83501	15.00000	O
2-Hexanone	8129	50263	209443	616990	1745830	2833330	QUA	0.39625	4.68074	0.63616	0.99169	0.99000	O
Chlorobenzene	21576	83187	346868	858198	1868703	3633156	LNR	-0.0095:	0.94640		0.99986	0.99000	O

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SF2129
Project : Former Griffiss Air Force Base, AOC 9 **Instrument ID:** GCMS-D
Lab File IDs : D9536.DD9534.DD9533.D **Calibration Date(s):** 16-APR-12 10:26
D9532.DD9531.DD9530.D 16-APR-12 13:44

Ethylbenzene	0.67682	0.52782	0.51480	0.51499	0.53197	0.52771	AVG		0.54902		11.47823	15.00000	O
m+p-Xylenes	0.76522	0.63573	0.65166	0.67358	0.69746	0.70066	AVG		0.68738		6.65753	15.00000	O
o-Xylene	0.57961	0.56877	0.59833	0.61520	0.63483	0.62838	AVG		0.60419		4.40293	15.00000	O
Styrene	0.93327	0.92810	1.01439	1.07119	1.10966	1.07593	AVG		1.02209		7.54848	15.00000	O
Bromoform	2149	10947	50607	141267	367585	710213	LNR	0.04614	0.18736		0.99796	0.99000	O
Isopropylbenzene	2.89348	2.37738	2.61116	2.66973	2.70231	2.59994	AVG		2.64233		6.34160	15.00000	O
N-Propylbenzene	4.18443	3.64923	3.73626	3.80468	3.73637	3.42223	AVG		3.75553		6.62484	15.00000	O
1,1,2,2-Tetrachloroethane	0.76215	0.64828	0.59614	0.65610	0.76936	0.69116	AVG		0.68720		9.90328	15.00000	O
1,3,5-Trimethylbenzene	2.66600	2.35490	2.58134	2.64272	2.74350	2.72762	AVG		2.61935		5.43232	15.00000	O
4-Chlorotoluene	2.47567	2.17814	2.25838	2.28533	2.30323	2.27566	AVG		2.29607		4.27474	15.00000	O
tert-Butylbenzene	2.50244	2.27529	2.40971	2.51497	2.65863	2.78323	AVG		2.52404		7.10474	15.00000	O
1,2,4-Trimethylbenzene	2.71355	2.36216	2.54651	2.61538	2.68526	2.66831	AVG		2.59853		5.00227	15.00000	O
P-Isopropyltoluene	2.58972	2.29797	2.50008	2.61430	2.68238	2.70289	AVG		2.56456		5.81912	15.00000	O
1,3-Dichlorobenzene	1.70790	1.34795	1.34397	1.37710	1.44382	1.52080	AVG		1.45692		9.62134	15.00000	O
1,4-Dichlorobenzene	1.96827	1.43407	1.41417	1.44936	1.51508	1.60071	AVG		1.56361		13.40444	15.00000	O
N-Butylbenzene	2.85559	2.39877	2.57940	2.66543	2.71308	2.67006	AVG		2.64705		5.72762	15.00000	O
sec-Butylbenzene	3.81772	3.13144	3.32123	3.35218	3.39500	3.28071	AVG		3.38305		6.83881	15.00000	O
1,2-Dichlorobenzene	1.46477	1.21653	1.24940	1.29158	1.38593	1.43860	AVG		1.34113		7.69045	15.00000	O
1,2-Dibromo-3-Chloropropane	637	3241	12476	39091	112359	193524	QUA	0.07607	8.25656	3.28701	0.99355	0.99000	O
1,2,4-Trichlorobenzene	5791	28755	117752	323690	813985	1784893	QUA	0.02641	1.33367	-0.07280	0.99924	0.99000	O
Naphthalene	6666	40176	184409	529495	1565010	2777362	QUA	0.07438	0.61659	0.00903	0.99394	0.99000	O
1,2,3-Trichlorobenzene	0.55838	0.52600	0.50374	0.55892	0.67775	0.68442	AVG		0.58487		13.23534	15.00000	O
Methyl Acetate	4448	17033	54961	166692	383776	597784	LNR	0.00501	0.33696		0.99649	0.99000	O
Methylcyclohexane	1.04831	0.86527	0.96013	0.97399	1.01061	1.17971	AVG		1.00634		10.41453	15.00000	O
Dibromofluoromethane	0.46782	0.46796	0.47520	0.47726	0.49135	0.53862	AVG		0.48637		5.55176	15.00000	
1,2-Dichloroethane-D4	0.51156	0.56910	0.53178	0.55742	0.59405	0.66555	AVG		0.57158		9.49555	15.00000	
Toluene-D8	0.92491	1.06296	1.07842	1.11752	1.19467	1.23476	AVG		1.10221		9.92969	15.00000	
P-Bromofluorobenzene	0.37896	0.38449	0.40376	0.42716	0.46895	0.53927	AVG		0.43376		14.11584	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, , **SDG:** SF2129
Lab ID : WG107276-4 **Analytical Date:** 04/23/12 09:20
Lab File ID : D9676.D **Instrument ID:** GCMS-D
Initial Calibration Date(s): 04/16/12 10:26 04/16/12 13:44

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1 Dichlorodifluoromethane	0.64674	0.62272	0.62272	0.010	-3.71412	20.00000	Averaged	
2 Chloromethane	0.85802	0.80514	0.80514	0.100	-6.16322	20.00000	Averaged	
3 Vinyl chloride	50.00000	55.27716	0.82715	0.010	10.55431	20.00000	Linear	
4 Bromomethane	0.54671	0.56046	0.56046	0.010	2.51486	20.00000	Averaged	
5 Chloroethane	0.54784	0.56585	0.56585	0.010	3.28707	20.00000	Averaged	
6 Trichlorofluoromethane	1.05471	1.06687	1.06687	0.010	1.15304	20.00000	Averaged	
9 1,1-Dichloroethene	50.00000	47.66023	0.55873	0.100	-4.67954	20.00000	Linear	
10 Carbon Disulfide	50.00000	50.26113	2.15228	0.010	0.52225	20.00000	Linear	
11 Freon-113	50.00000	51.25397	0.39849	0.010	2.50794	20.00000	Linear	
14 Methylene Chloride	50.00000	52.52462	0.61493	0.010	5.04923	20.00000	Linear	
15 Acetone	0.12794	0.12987	0.12987	0.010	1.50798	20.00000	Averaged	
17 trans-1,2-Dichloroethene	50.00000	47.52466	0.54732	0.010	-4.95069	20.00000	Linear	
19 Methyl tert-butyl ether	1.31133	1.40141	1.40141	0.010	6.86924	20.00000	Averaged	
25 1,1-Dichloroethane	1.07091	1.04830	1.04830	0.100	-2.11169	20.00000	Averaged	
29 cis-1,2-Dichloroethene	0.62468	0.61446	0.61446	0.010	-1.63630	20.00000	Averaged	
33 Bromochloromethane	0.23710	0.24860	0.24860	0.010	4.85050	20.00000	Averaged	
34 Chloroform	0.98736	0.99224	0.99224	0.010	0.49440	20.00000	Averaged	
35 Carbon Tetrachloride	0.39354	0.38420	0.38420	0.010	-2.37160	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.86955	0.84420	0.84420	0.010	-2.91620	20.00000	Averaged	
40 2-Butanone	250	288	0.22087	0.010	15.08526	20.00000	Linear	
41 Benzene	1.42356	1.44051	1.44051	0.010	1.19006	20.00000	Averaged	
43 Cyclohexane	1.01032	0.99904	0.99904	0.010	-1.11609	20.00000	Averaged	
47 1,2-Dichloroethane	0.39187	0.42467	0.42467	0.010	8.37156	20.00000	Averaged	
48 Trichloroethene	50.00000	45.80030	0.33880	0.010	-8.39939	20.00000	Linear	
51 1,2-Dichloropropane	0.33116	0.34532	0.34532	0.010	4.27509	20.00000	Averaged	
52 Bromodichloromethane	0.41272	0.44684	0.44684	0.010	8.26542	20.00000	Averaged	
53 cis-1,3-dichloropropene	0.49900	0.55623	0.55623	0.010	11.47071	20.00000	Averaged	
54 1,4-Dioxane	1000	373	0.00105	0.001	-62.73826	20.00000	Linear	*
57 Toluene	0.90662	0.92846	0.92846	0.010	2.40986	20.00000	Averaged	
58 4-methyl-2-pentanone	250	290	0.29604	0.010	16.17442	20.00000	Quadratic	
59 Tetrachloroethene	50.00000	45.36972	0.25217	0.010	-9.26056	20.00000	Linear	
60 trans-1,3-Dichloropropene	50.00000	50.20209	0.47812	0.010	0.40418	20.00000	Linear	
61 1,1,2-Trichloroethane	0.23165	0.26246	0.26246	0.010	13.30057	20.00000	Averaged	
62 Dibromochloromethane	0.28259	0.30908	0.30908	0.010	9.37430	20.00000	Averaged	
64 1,2-Dibromoethane	0.25893	0.29551	0.29551	0.010	14.12810	20.00000	Averaged	
65 2-Hexanone	250	268	0.18778	0.010	7.03581	20.00000	Quadratic	
67 Chlorobenzene	50.00000	51.54500	0.98468	0.300	3.09000	20.00000	Linear	
68 Ethylbenzene	0.54902	0.52103	0.52103	0.010	-5.09776	20.00000	Averaged	
71 m+p-Xylenes	0.68738	0.68414	0.68414	0.010	-0.47146	20.00000	Averaged	
72 o-Xylene	0.60419	0.62688	0.62688	0.010	3.75498	20.00000	Averaged	
73 Styrene	1.02209	1.11249	1.11249	0.010	8.84432	20.00000	Averaged	

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, , **SDG:** SF2129
Lab ID : WG107276-4 **Analytical Date:** 04/23/12 09:20
Lab File ID : D9676.D **Instrument ID:** GCMS-D
Initial Calibration Date(s): 04/16/12 10:26 04/16/12 13:44

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
74 Bromoform	50.00000	52.02424	0.18630	0.100	4.04848	20.00000	Linear	
75 Isopropylbenzene	2.64233	2.51214	2.51214	0.010	-4.92704	20.00000	Averaged	
80 N-Propylbenzene	3.75553	3.61794	3.61794	0.010	-3.66378	20.00000	Averaged	
81 1,1,2,2-Tetrachloroethane	0.68720	0.75378	0.75378	0.300	9.68917	20.00000	Averaged	
82 1,3,5-Trimethylbenzene	2.61935	2.58563	2.58563	0.010	-1.28722	20.00000	Averaged	
85 4-Chlorotoluene	2.29607	2.24027	2.24027	0.010	-2.43009	20.00000	Averaged	
86 tert-Butylbenzene	2.52404	2.44143	2.44143	0.010	-3.27292	20.00000	Averaged	
88 1,2,4-Trimethylbenzene	2.59853	2.54730	2.54730	0.010	-1.97147	20.00000	Averaged	
89 P-Isopropyltoluene	2.56456	2.49022	2.49022	0.010	-2.89884	20.00000	Averaged	
90 1,3-Dichlorobenzene	1.45692	1.35949	1.35949	0.010	-6.68805	20.00000	Averaged	
92 1,4-Dichlorobenzene	1.56361	1.45383	1.45383	0.010	-7.02091	20.00000	Averaged	
93 N-Butylbenzene	2.64705	2.56969	2.56969	0.010	-2.92249	20.00000	Averaged	
94 sec-Butylbenzene	3.38305	3.21565	3.21565	0.010	-4.94814	20.00000	Averaged	
95 1,2-Dichlorobenzene	1.34113	1.31234	1.31234	0.010	-2.14739	20.00000	Averaged	
96 1,2-Dibromo-3-Chloropropane	50.00000	49.61812	0.10646	0.010	-0.76377	20.00000	Quadratic	
99 1,2,4-Trichlorobenzene	50.00000	47.78361	0.72551	0.010	-4.43278	20.00000	Quadratic	
101 Naphthalene	50.00000	46.35552	1.35603	0.010	-7.28895	20.00000	Quadratic	
102 1,2,3-Trichlorobenzene	0.58487	0.59804	0.59804	0.010	2.25202	20.00000	Averaged	
103 Methyl Acetate	50.00000	55.79840	0.37435	0.010	11.59680	20.00000	Linear	
104 Methylcyclohexane	1.00634	1.04699	1.04699	0.010	4.04006	20.00000	Averaged	
37 Dibromofluoromethane	0.48637	0.47658	0.47658	0.010	-2.01352	20.00000	Averaged	
45 1,2-Dichloroethane-D4	0.57158	0.57496	0.57496	0.010	0.59213	20.00000	Averaged	
55 Toluene-D8	1.10221	1.18523	1.18523	0.010	7.53269	20.00000	Averaged	
76 P-Bromofluorobenzene	0.43376	0.52205	0.52205	0.010	20.35265	20.00000	Averaged	*

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, , **SDG:** SF2129
Lab ID : WG107338-7 **Analytical Date:** 04/24/12 08:38
Lab File ID : D9710.D **Instrument ID:** GCMS-D
Initial Calibration Date(s): 04/16/12 10:26 04/16/12 13:44

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1 Dichlorodifluoromethane	0.64674	0.63207	0.63207	0.010	-2.26940	20.00000	Averaged	
2 Chloromethane	0.85802	0.75114	0.75114	0.100	-12.45711	20.00000	Averaged	
3 Vinyl chloride	50.00000	53.68927	0.80369	0.010	7.37854	20.00000	Linear	
4 Bromomethane	0.54671	0.39067	0.39067	0.010	-28.54141	20.00000	Averaged	*
5 Chloroethane	0.54784	0.59313	0.59313	0.010	8.26702	20.00000	Averaged	
6 Trichlorofluoromethane	1.05471	1.07137	1.07137	0.010	1.57989	20.00000	Averaged	
9 1,1-Dichloroethene	50.00000	47.21527	0.55325	0.100	-5.56947	20.00000	Linear	
10 Carbon Disulfide	50.00000	50.31844	2.15480	0.010	0.63689	20.00000	Linear	
11 Freon-113	50.00000	52.22186	0.40645	0.010	4.44373	20.00000	Linear	
14 Methylene Chloride	50.00000	50.83687	0.59571	0.010	1.67373	20.00000	Linear	
15 Acetone	0.12794	0.13668	0.13668	0.010	6.83424	20.00000	Averaged	
17 trans-1,2-Dichloroethene	50.00000	46.81731	0.53931	0.010	-6.36537	20.00000	Linear	
19 Methyl tert-butyl ether	1.31133	1.31770	1.31770	0.010	0.48629	20.00000	Averaged	
25 1,1-Dichloroethane	1.07091	1.05078	1.05078	0.100	-1.88036	20.00000	Averaged	
29 cis-1,2-Dichloroethene	0.62468	0.60621	0.60621	0.010	-2.95784	20.00000	Averaged	
33 Bromochloromethane	0.23710	0.24946	0.24946	0.010	5.21444	20.00000	Averaged	
34 Chloroform	0.98736	0.97659	0.97659	0.010	-1.09014	20.00000	Averaged	
35 Carbon Tetrachloride	0.39354	0.37735	0.37735	0.010	-4.11334	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.86955	0.83482	0.83482	0.010	-3.99435	20.00000	Averaged	
40 2-Butanone	250	293	0.22495	0.010	17.11760	20.00000	Linear	
41 Benzene	1.42356	1.42172	1.42172	0.010	-0.12989	20.00000	Averaged	
43 Cyclohexane	1.01032	0.99125	0.99125	0.010	-1.88719	20.00000	Averaged	
47 1,2-Dichloroethane	0.39187	0.42484	0.42484	0.010	8.41343	20.00000	Averaged	
48 Trichloroethene	50.00000	45.98055	0.34024	0.010	-8.03890	20.00000	Linear	
51 1,2-Dichloropropane	0.33116	0.33937	0.33937	0.010	2.47851	20.00000	Averaged	
52 Bromodichloromethane	0.41272	0.44044	0.44044	0.010	6.71627	20.00000	Averaged	
53 cis-1,3-dichloropropene	0.49900	0.54425	0.54425	0.010	9.06935	20.00000	Averaged	
54 1,4-Dioxane	1000	512	0.00147	0.001	-48.79204	20.00000	Linear	*
57 Toluene	0.90662	0.93659	0.93659	0.010	3.30655	20.00000	Averaged	
58 4-methyl-2-pentanone	250	292	0.29743	0.010	16.70731	20.00000	Quadratic	
59 Tetrachloroethene	50.00000	44.74335	0.24853	0.010	-10.51331	20.00000	Linear	
60 trans-1,3-Dichloropropene	50.00000	49.92505	0.47529	0.010	-0.14990	20.00000	Linear	
61 1,1,2-Trichloroethane	0.23165	0.25911	0.25911	0.010	11.85504	20.00000	Averaged	
62 Dibromochloromethane	0.28259	0.30046	0.30046	0.010	6.32435	20.00000	Averaged	
64 1,2-Dibromoethane	0.25893	0.28498	0.28498	0.010	10.06235	20.00000	Averaged	
65 2-Hexanone	250	273	0.19125	0.010	9.08127	20.00000	Quadratic	
67 Chlorobenzene	50.00000	50.93086	0.97305	0.300	1.86172	20.00000	Linear	
68 Ethylbenzene	0.54902	0.51593	0.51593	0.010	-6.02656	20.00000	Averaged	
71 m+p-Xylenes	0.68738	0.68283	0.68283	0.010	-0.66197	20.00000	Averaged	
72 o-Xylene	0.60419	0.62521	0.62521	0.010	3.47894	20.00000	Averaged	
73 Styrene	1.02209	1.09786	1.09786	0.010	7.41315	20.00000	Averaged	

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, , **SDG:** SF2129
Lab ID : WG107338-7 **Analytical Date:** 04/24/12 08:38
Lab File ID : D9710.D **Instrument ID:** GCMS-D
Initial Calibration Date(s): 04/16/12 10:26 04/16/12 13:44

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
74 Bromoform	50.00000	50.47839	0.18051	0.100	0.95679	20.00000	Linear	
75 Isopropylbenzene	2.64233	2.48163	2.48163	0.010	-6.08173	20.00000	Averaged	
80 N-Propylbenzene	3.75553	3.61896	3.61896	0.010	-3.63659	20.00000	Averaged	
81 1,1,2,2-Tetrachloroethane	0.68720	0.73960	0.73960	0.300	7.62592	20.00000	Averaged	
82 1,3,5-Trimethylbenzene	2.61935	2.54177	2.54177	0.010	-2.96186	20.00000	Averaged	
85 4-Chlorotoluene	2.29607	2.19623	2.19623	0.010	-4.34822	20.00000	Averaged	
86 tert-Butylbenzene	2.52404	2.40189	2.40189	0.010	-4.83950	20.00000	Averaged	
88 1,2,4-Trimethylbenzene	2.59853	2.50234	2.50234	0.010	-3.70176	20.00000	Averaged	
89 P-Isopropyltoluene	2.56456	2.46326	2.46326	0.010	-3.94995	20.00000	Averaged	
90 1,3-Dichlorobenzene	1.45692	1.36325	1.36325	0.010	-6.42989	20.00000	Averaged	
92 1,4-Dichlorobenzene	1.56361	1.42661	1.42661	0.010	-8.76159	20.00000	Averaged	
93 N-Butylbenzene	2.64705	2.51211	2.51211	0.010	-5.09804	20.00000	Averaged	
94 sec-Butylbenzene	3.38305	3.20613	3.20613	0.010	-5.22950	20.00000	Averaged	
95 1,2-Dichlorobenzene	1.34113	1.29644	1.29644	0.010	-3.33288	20.00000	Averaged	
96 1,2-Dibromo-3-Chloropropane	50.00000	50.49353	0.10842	0.010	0.98706	20.00000	Quadratic	
99 1,2,4-Trichlorobenzene	50.00000	44.86840	0.67816	0.010	-10.26320	20.00000	Quadratic	
101 Naphthalene	50.00000	38.53177	1.11111	0.010	-22.93645	20.00000	Quadratic	*
102 1,2,3-Trichlorobenzene	0.58487	0.55899	0.55899	0.010	-4.42500	20.00000	Averaged	
103 Methyl Acetate	50.00000	53.94695	0.36187	0.010	7.89390	20.00000	Linear	
104 Methylcyclohexane	1.00634	1.03493	1.03493	0.010	2.84106	20.00000	Averaged	
37 Dibromofluoromethane	0.48637	0.47253	0.47253	0.010	-2.84470	20.00000	Averaged	
45 1,2-Dichloroethane-D4	0.57158	0.57026	0.57026	0.010	-0.23123	20.00000	Averaged	
55 Toluene-D8	1.10221	1.18901	1.18901	0.010	7.87588	20.00000	Averaged	
76 P-Bromofluorobenzene	0.43376	0.53172	0.53172	0.010	22.58311	20.00000	Averaged	*

*** = Compound out of QC criteria**

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, /
Lab ID : WG107009-4
Lab File ID : D9532.D

SDG: SF2129
Analytical Date: 04/16/12 11:22
Instrument ID: GCMS-D

		PENTAFLUOROBENZENE		1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5	
		Area #	RT #	Area #	RT #	Area #	RT #
	Std .	512824	8.11	932400	8.76	898413	12.24
	Upper Limit	1025648	8.61	1864800	9.26	1796826	12.74
	Lower Limit	256412	7.61	466200	8.26	449206.5	11.74
Client Sample ID	Lab Sample ID						
Continuing Calibrati	WG107276-4	399124	8.11	732351	8.76	760788	12.24
Laboratory Control S	WG107276-1	423000	8.11	773898	8.76	788352	12.25
Method Blank Sample	WG107276-2	340020	8.11	650814	8.76	622411	12.25
AOC9-TB1-04162012	SF2129-1	407819	8.11	770525	8.76	733813	12.24
AOC9-SW03PM04162	SF2129-2	379308	8.11	714435	8.76	686787	12.25
AOC9-SW02PM04162	SF2129-3	348906	8.10	672698	8.76	647437	12.24
AOC9-SW01PM04162	SF2129-4	336805	8.11	643668	8.76	623950	12.25
AOC9-MW06PM0416:	SF2129-5	326407	8.10	633584	8.76	608293	12.24
AOC9-MW19PM0417:	SF2129-10	317839	8.11	618360	8.76	602049	12.24
AOC9-MW17PM0417:	SF2129-6DL	312447	8.11	610819	8.76	601574	12.25
MW17/DPM04172012	SF2129-7DL	306575	8.11	603429	8.76	602729	12.25
Continuing Calibrati	WG107338-7	378390	8.11	690930	8.76	726767	12.24
Laboratory Control S	WG107338-1	420076	8.11	767831	8.76	797031	12.25
Method Blank Sample	WG107338-2	333150	8.11	641136	8.76	627855	12.24
AOC9-MW15PM0417:	SF2129-8DL	368580	8.11	695437	8.76	701215	12.24
AOC9-MW14PM0417:	SF2129-9	384529	8.11	722471	8.76	760511	12.25
AOC9-MW15PM0417:	SF2129-8	363974	8.11	684672	8.76	763450	12.25
MW17/DPM04172012	SF2129-7	355932	8.11	679297	8.76	733601	12.25
AOC9-MW17PM0417:	SF2129-6	342773	8.11	650769	8.76	705955	12.25
Matrix Spike	WG107338-3	373075	8.11	691947	8.76	779656	12.25
Matrix Spike Duplica	WG107338-4	406548	8.11	745595	8.76	839574	12.25

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

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
Project : Former Griffiss Air Force Base, ,
Lab ID : WG107009-4
Lab File ID : D9532.D

SDG: SF2129
Analytical Date: 04/16/12 11:22
Instrument ID: GCMS-D

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	457309		15.56	
	Upper Limit	914618		16.06	
	Lower Limit	228654.5		15.06	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG107276-4	419030		15.57	
Laboratory Control S	WG107276-1	429030		15.56	
Method Blank Sample	WG107276-2	336023		15.56	
AOC9-TB1-04162012	SF2129-1	393475		15.57	
AOC9-SW03PM04162	SF2129-2	370554		15.56	
AOC9-SW02PM04162	SF2129-3	345828		15.56	
AOC9-SW01PM04162	SF2129-4	334442		15.56	
AOC9-MW06PM0416:	SF2129-5	325783		15.56	
AOC9-MW19PM0417:	SF2129-10	326940		15.56	
AOC9-MW17PM0417:	SF2129-6DL	318765		15.56	
MW17/DPM04172012	SF2129-7DL	311970		15.56	
Continuing Calibrati	WG107338-7	402727		15.56	
Laboratory Control S	WG107338-1	427573		15.56	
Method Blank Sample	WG107338-2	336101		15.56	
AOC9-MW15PM0417:	SF2129-8DL	370083		15.56	
AOC9-MW14PM0417:	SF2129-9	391035		15.57	
AOC9-MW15PM0417:	SF2129-8	374131		15.56	
MW17/DPM04172012	SF2129-7	360371		15.56	
AOC9-MW17PM0417:	SF2129-6	344912		15.57	
Matrix Spike	WG107338-3	402460		15.56	
Matrix Spike Duplica	WG107338-4	422740		15.57	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILES DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Former Griffiss Air Force Base, AOC 9 **Matrix:** AQ
Lab Code: KAS **SDG:** SF2129

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
AOC9-TB1-04162012	SF2129-1		114.		99.9		102.		109.	
AOC9-MW19PM04172012	SF2129-10		115.		105.		108.		109.	
AOC9-SW03PM04162012	SF2129-2		116.		99.8		101.		110.	
AOC9-SW02PM04162012	SF2129-3		115.		101.		104.		109.	
AOC9-SW01PM04162012	SF2129-4		115.		103.		104.		110.	
AOC9-MW06PM04162012	SF2129-5		115.		101.		106.		109.	
AOC9-MW17PM04172012	SF2129-6		117.		99.4		101.		109.	
AOC9-MW17PM04172012	SF2129-6DL		115.		102.		108.		109.	
MW17/DPM04172012	SF2129-7		116.		98.8		99.0		108.	
MW17/DPM04172012	SF2129-7DL		114.		104.		108.		109.	
AOC9-MW15PM04172012	SF2129-8		121.		98.7		99.9		110.	
AOC9-MW15PM04172012	SF2129-8DL		118.		97.0		101.		108.	
AOC9-MW14PM04172012	SF2129-9		118.		96.2		97.0		107.	
Laboratory Control S	WG107276-1		118.		97.7		99.2		109.	
Method Blank Sample	WG107276-2		114.		102.		105.		110.	
Laboratory Control S	WG107338-1		121.		96.0		96.8		108.	
Method Blank Sample	WG107338-2		115.		102.		105.		107.	
Matrix Spike	WG107338-3		126.		95.7		100.		108.	
Matrix Spike Duplica	WG107338-4		124.		97.7		99.4		110.	

		QC Limits
DBF	DIBROMOFLUOROMETHANE	68-128
BFB	P-BROMOFLUOROBENZENE	56-133
TOL	TOLUENE-D8	65-128
DCA	1,2-DICHLOROETHANE-D4	67-135

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : D9680.D
Instrument ID : GCMS-D
Heated Purge : No

SDG : SF2129
Lab Sample ID : WG107276-2
Date Analyzed : 23-APR-12
Time Analyzed : 11:39

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG107276-1	D9677.D	04/23/12	09:59
AOC9-TB1-04162012	SF2129-1	D9688.D	04/23/12	15:43
AOC9-SW03PM04162012	SF2129-2	D9689.D	04/23/12	16:11
AOC9-SW02PM04162012	SF2129-3	D9690.D	04/23/12	16:39
AOC9-SW01PM04162012	SF2129-4	D9691.D	04/23/12	17:08
AOC9-MW06PM04162012	SF2129-5	D9692.D	04/23/12	17:36
AOC9-MW19PM04172012	SF2129-10	D9693.D	04/23/12	18:04
AOC9-MW17PM04172012	SF2129-6DL	D9694.D	04/23/12	18:32
MW17/DPM04172012	SF2129-7DL	D9695.D	04/23/12	19:01

Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : D9715.D
Instrument ID : GCMS-D
Heated Purge : No

SDG : SF2129
Lab Sample ID : WG107338-2
Date Analyzed : 24-APR-12
Time Analyzed : 11:43

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG107338-1	D9712.D	04/24/12	10:00
AOC9-MW15PM04172012	SF2129-8DL	D9719.D	04/24/12	13:35
AOC9-MW14PM04172012	SF2129-9	D9726.D	04/24/12	16:53
AOC9-MW15PM04172012	SF2129-8	D9727.D	04/24/12	17:21
MW17/DPM04172012	SF2129-7	D9728.D	04/24/12	17:49
AOC9-MW17PM04172012	SF2129-6	D9729.D	04/24/12	18:17
Matrix Spike	WG107338-3	D9730.D	04/24/12	18:46
Matrix Spike Duplica	WG107338-4	D9731.D	04/24/12	19:14

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : DB880.D
Instrument ID : GCMS-D

SDG : SF2129
Date Analyzed : 16-APR-12
Time Analyzed : 09:58
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	22.5		
75	30.0 - 60.0% of mass 95	53.4		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.5		
173	Less than 2.0% of mass 95	0.0	0.0	1
174	Greater than 50.0% of mass 95	70.3		
175	5.0 - 9.0% of mass 174	5.0	7.07	1
176	95.0 - 101.0% of mass 174	68.4	97.38	1
177	5.0 - 9.0% of mass 176	4.3	6.31	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	WG107009-6	D9530.D	04/16/12	10:26
Initial Calibration	WG107009-5	D9531.D	04/16/12	10:54
Initial Calibration	WG107009-4	D9532.D	04/16/12	11:22
Initial Calibration	WG107009-3	D9533.D	04/16/12	11:50
Initial Calibration	WG107009-2	D9534.D	04/16/12	12:28
Initial Calibration	WG107009-1	D9536.D	04/16/12	13:44
Independent Source	WG107009-9	D9537A.D	04/16/12	14:30

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : DB885.D
Instrument ID : GCMS-D

SDG : SF2129
Date Analyzed : 23-APR-12
Time Analyzed : 08:57
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.5		
75	30.0 - 60.0% of mass 95	52.3		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.1		
173	Less than 2.0% of mass 95	0.0	0.0	1
174	Greater than 50.0% of mass 95	70.8		
175	5.0 - 9.0% of mass 174	5.7	8.03	1
176	95.0 - 101.0% of mass 174	70.4	99.35	1
177	5.0 - 9.0% of mass 176	3.9	5.56	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	WG107276-4	D9676.D	04/23/12	09:20
Laboratory Control S	WG107276-1	D9677.D	04/23/12	09:59
Method Blank Sample	WG107276-2	D9680.D	04/23/12	11:39
AOC9-TB1-04162012	SF2129-1	D9688.D	04/23/12	15:43
AOC9-SW03PM04162012	SF2129-2	D9689.D	04/23/12	16:11
AOC9-SW02PM04162012	SF2129-3	D9690.D	04/23/12	16:39
AOC9-SW01PM04162012	SF2129-4	D9691.D	04/23/12	17:08
AOC9-MW06PM04162012	SF2129-5	D9692.D	04/23/12	17:36
AOC9-MW19PM04172012	SF2129-10	D9693.D	04/23/12	18:04
AOC9-MW17PM04172012	SF2129-6DL	D9694.D	04/23/12	18:32
MW17/DPM04172012	SF2129-7DL	D9695.D	04/23/12	19:01

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : DB886.D
Instrument ID : GCMS-D

SDG : SF2129
Date Analyzed : 24-APR-12
Time Analyzed : 08:14
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	22.6		
75	30.0 - 60.0% of mass 95	48.4		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.2		
173	Less than 2.0% of mass 95	0.0	0.0	1
174	Greater than 50.0% of mass 95	69.0		
175	5.0 - 9.0% of mass 174	5.4	7.88	1
176	95.0 - 101.0% of mass 174	67.2	97.32	1
177	5.0 - 9.0% of mass 176	4.8	7.08	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	WG107338-7	D9710.D	04/24/12	08:38
Laboratory Control S	WG107338-1	D9712.D	04/24/12	10:00
Method Blank Sample	WG107338-2	D9715.D	04/24/12	11:43
AOC9-MW15PM04172012	SF2129-8DL	D9719.D	04/24/12	13:35
AOC9-MW14PM04172012	SF2129-9	D9726.D	04/24/12	16:53
AOC9-MW15PM04172012	SF2129-8	D9727.D	04/24/12	17:21
MW17/DPM04172012	SF2129-7	D9728.D	04/24/12	17:49
AOC9-MW17PM04172012	SF2129-6	D9729.D	04/24/12	18:17
Matrix Spike	WG107338-3	D9730.D	04/24/12	18:46
Matrix Spike Duplica	WG107338-4	D9731.D	04/24/12	19:14

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, ,
Lab ID : WG107009-4
Lab File ID : D9532.D

SDG: SF2129
Analytical Date: 04/16/12 11:22
Instrument ID: GCMS-D

		PENTAFLUOROBENZENE		1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5	
		Area #	RT #	Area #	RT #	Area #	RT #
	Std .	512824	8.11	932400	8.76	898413	12.24
	Upper Limit	1025648	8.61	1864800	9.26	1796826	12.74
	Lower Limit	256412	7.61	466200	8.26	449206.5	11.74
Client Sample ID	Lab Sample ID						
Continuing Calibrati	WG107276-4	399124	8.11	732351	8.76	760788	12.24
Laboratory Control S	WG107276-1	423000	8.11	773898	8.76	788352	12.25
Method Blank Sample	WG107276-2	340020	8.11	650814	8.76	622411	12.25
AOC9-TB1-04162012	SF2129-1	407819	8.11	770525	8.76	733813	12.24
AOC9-SW03PM04162	SF2129-2	379308	8.11	714435	8.76	686787	12.25
AOC9-SW02PM04162	SF2129-3	348906	8.10	672698	8.76	647437	12.24
AOC9-SW01PM04162	SF2129-4	336805	8.11	643668	8.76	623950	12.25
AOC9-MW06PM0416:	SF2129-5	326407	8.10	633584	8.76	608293	12.24
AOC9-MW19PM0417:	SF2129-10	317839	8.11	618360	8.76	602049	12.24
AOC9-MW17PM0417:	SF2129-6DL	312447	8.11	610819	8.76	601574	12.25
MW17/DPM04172012	SF2129-7DL	306575	8.11	603429	8.76	602729	12.25
Continuing Calibrati	WG107338-7	378390	8.11	690930	8.76	726767	12.24
Laboratory Control S	WG107338-1	420076	8.11	767831	8.76	797031	12.25
Method Blank Sample	WG107338-2	333150	8.11	641136	8.76	627855	12.24
AOC9-MW15PM0417:	SF2129-8DL	368580	8.11	695437	8.76	701215	12.24
AOC9-MW14PM0417:	SF2129-9	384529	8.11	722471	8.76	760511	12.25
AOC9-MW15PM0417:	SF2129-8	363974	8.11	684672	8.76	763450	12.25
MW17/DPM04172012	SF2129-7	355932	8.11	679297	8.76	733601	12.25
AOC9-MW17PM0417:	SF2129-6	342773	8.11	650769	8.76	705955	12.25
Matrix Spike	WG107338-3	373075	8.11	691947	8.76	779656	12.25
Matrix Spike Duplica	WG107338-4	406548	8.11	745595	8.76	839574	12.25

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

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
Project : Former Griffiss Air Force Base, /
Lab ID : WG107009-4
Lab File ID : D9532.D

SDG: SF2129
Analytical Date: 04/16/12 11:22
Instrument ID: GCMS-D

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	457309		15.56	
	Upper Limit	914618		16.06	
	Lower Limit	228654.5		15.06	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG107276-4	419030		15.57	
Laboratory Control S	WG107276-1	429030		15.56	
Method Blank Sample	WG107276-2	336023		15.56	
AOC9-TB1-04162012	SF2129-1	393475		15.57	
AOC9-SW03PM04162	SF2129-2	370554		15.56	
AOC9-SW02PM04162	SF2129-3	345828		15.56	
AOC9-SW01PM04162	SF2129-4	334442		15.56	
AOC9-MW06PM0416:	SF2129-5	325783		15.56	
AOC9-MW19PM0417:	SF2129-10	326940		15.56	
AOC9-MW17PM0417:	SF2129-6DL	318765		15.56	
MW17/DPM04172012	SF2129-7DL	311970		15.56	
Continuing Calibrati	WG107338-7	402727		15.56	
Laboratory Control S	WG107338-1	427573		15.56	
Method Blank Sample	WG107338-2	336101		15.56	
AOC9-MW15PM0417:	SF2129-8DL	370083		15.56	
AOC9-MW14PM0417:	SF2129-9	391035		15.57	
AOC9-MW15PM0417:	SF2129-8	374131		15.56	
MW17/DPM04172012	SF2129-7	360371		15.56	
AOC9-MW17PM0417:	SF2129-6	344912		15.57	
Matrix Spike	WG107338-3	402460		15.56	
Matrix Spike Duplica	WG107338-4	422740		15.57	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

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

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 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%.

* Compound recovery 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 Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods 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.

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-1
Client ID: AOC9-TB1-04162012
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9688.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-1
Client ID: AOC9-TB1-04162012
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9688.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		102.	%					
Toluene-d8		109.	%					
P-Bromofluorobenzene		114.	%					
Dibromofluoromethane		99.9	%					

600 Technology Way
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Tel:(207) 874-2400 Fax:(207) 775-4029

Data File: \\target_server\GG\chem\gcms-d.i\D042312.b\D9688.D
Report Date: 01-May-2012 16:04

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D042312.b\D9688.D
Lab Smp Id: SF2129-1 Client Smp ID: AOC9-TB1-04162012
Inj Date : 23-APR-2012 15:43 MS Autotune Date: 05-MAR-2010 09:29
Operator : MMM Inst ID: gcms-d.i
Smp Info : SF2129-1
Misc Info : WG107276,WG107009-4
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-d.i\D042312.b\D826A91.m
Meth Date : 01-May-2012 15:50 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ENEGFS.sub
Target Version: 4.12
Processing Host: T6-0360

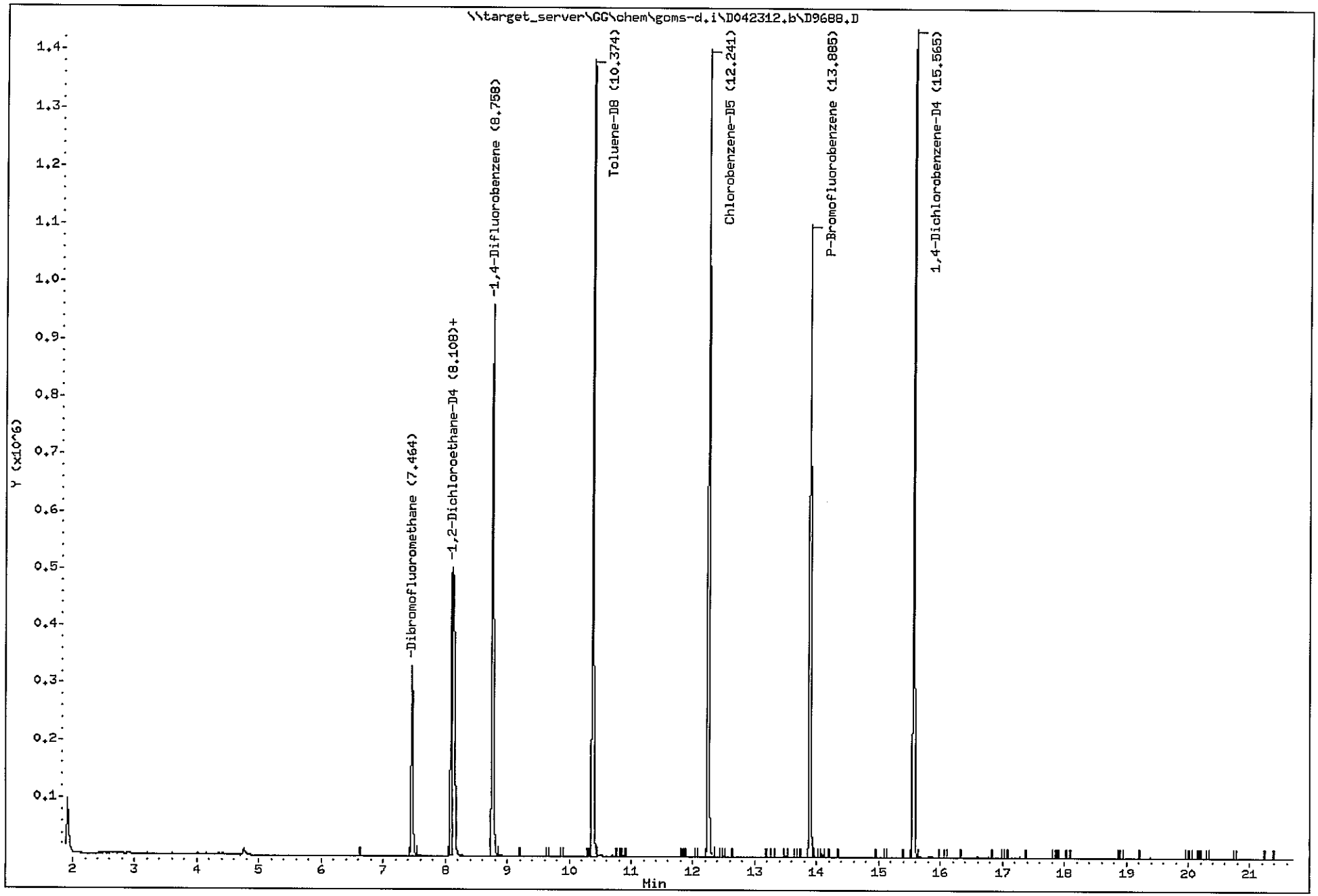
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

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
$ 37 Dibromofluoromethane	113	7.464	7.457	(0.921)	198080	49.9318	49.9	
$ 45 1,2-Dichloroethane-D4	65	8.143	8.135	(1.004)	238109	51.0744	51.1	
$ 55 Toluene-D8	98	10.374	10.374	(1.185)	923177	54.3507	54.4	
$ 76 P-Bromofluorobenzene	95	13.885	13.878	(1.585)	382225	57.1805	57.2	
* 42 Pentafluorobenzene	168	8.107	8.100	(1.000)	407819	50.0000		
* 49 1,4-Difluorobenzene	114	8.758	8.751	(1.000)	770525	50.0000		
* 66 Chlorobenzene-D5	117	12.240	12.233	(1.000)	733813	50.0000		
* 91 1,4-Dichlorobenzene-D4	152	15.565	15.558	(1.000)	393475	50.0000		

Data File: \\target_server\GC\chem\goms-d.i\D042312.b\D9688.D
Date : 23-APR-2012 15:43
Client ID: A0C9-TB1-04162012
Sample Info: SF2129-1

Instrument: goms-d.i



Katahdin Analytical Services 1000017

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-2
Client ID: AOC9-SW03PM0416201
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9689.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	J	2.9	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

600 Technology Way
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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-2
Client ID: AOC9-SW03PM0416201
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9689.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		101.	%					
Toluene-d8		110.	%					
P-Bromofluorobenzene		116.	%					
Dibromofluoromethane		99.8	%					

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Data File: \\target_server\GG\chem\gcms-d.i\D042312.b\D9689.D
Report Date: 01-May-2012 16:04

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D042312.b\D9689.D
Lab Smp Id: SF2129-2 Client Smp ID: AOC9-SW03PM04162012
Inj Date : 23-APR-2012 16:11 MS Autotune Date: 05-MAR-2010 09:29
Operator : MMM Inst ID: gcms-d.i
Smp Info : SF2129-2
Misc Info : WG107276,WG107009-4
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-d.i\D042312.b\D826A91.m
Meth Date : 01-May-2012 15:50 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ENEGFS.sub
Target Version: 4.12
Processing Host: T6-0360

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

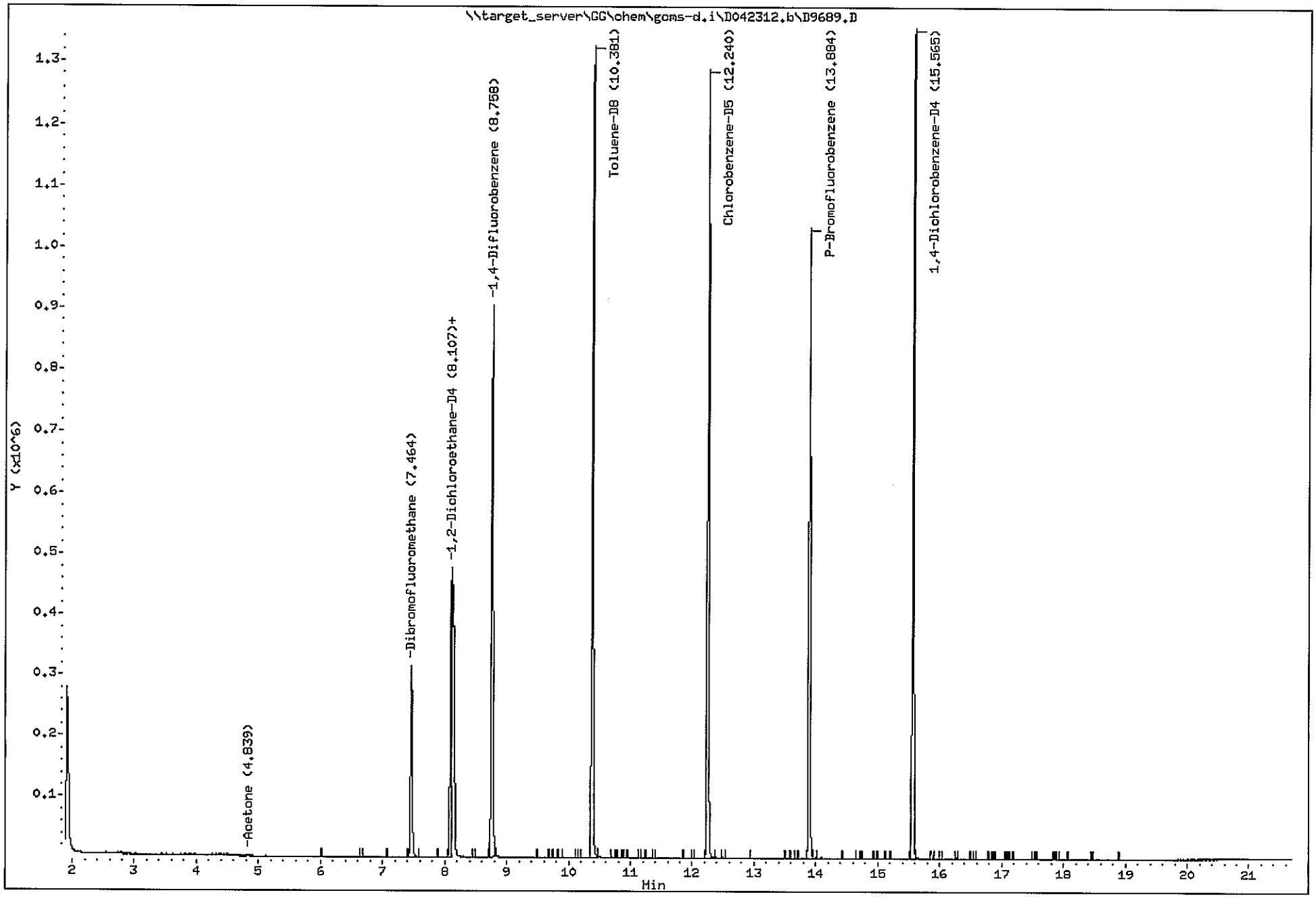
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
15 Acetone	43	4.839	4.833	(0.597)	2824	2.90967	2.9(aM)	M10
$ 37 Dibromofluoromethane	113	7.463	7.457	(0.921)	184031	49.8773	49.9	MMM 5-1-12
$ 45 1,2-Dichloroethane-D4	65	8.142	8.135	(1.004)	218527	50.3974	50.4	
$ 55 Toluene-D8	98	10.380	10.374	(1.185)	862459	54.7624	54.8	
$ 76 P-Bromofluorobenzene	95	13.884	13.878	(1.585)	358143	57.7842	57.8	
* 42 Pentafluorobenzene	168	8.107	8.100	(1.000)	379308	50.0000		
* 49 1,4-Difluorobenzene	114	8.757	8.751	(1.000)	714435	50.0000		
* 66 Chlorobenzene-D5	117	12.246	12.233	(1.000)	686787	50.0000		
* 91 1,4-Dichlorobenzene-D4	152	15.564	15.558	(1.000)	370554	50.0000		

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\ohem\goms-d.i\D042312.b\D9689.D
Date : 23-APR-2012 16:11
Client ID: ADC9-SW03PM04162012
Sample Info: SF2129-2

Instrument: goms-d.i



Katahdin Analytical Services 1000021

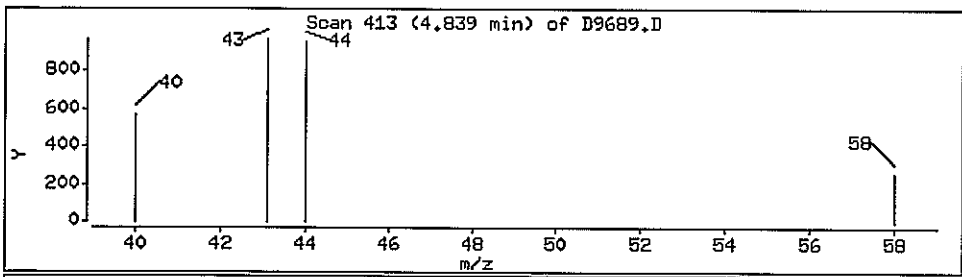
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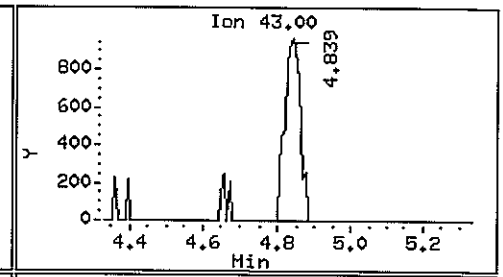
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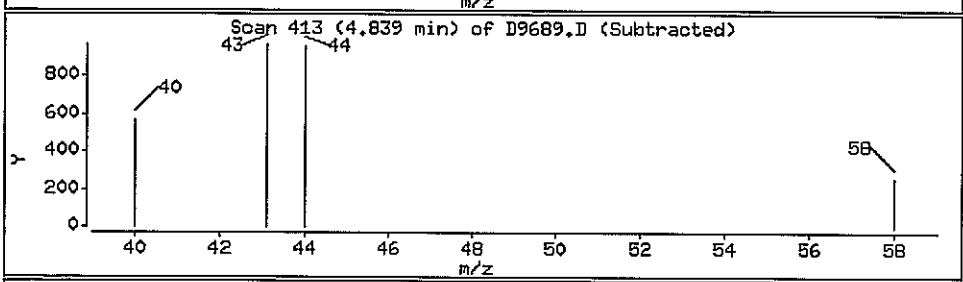
Client ID: ADC9-SW03PH04162012 Instrument: gcms-d.i

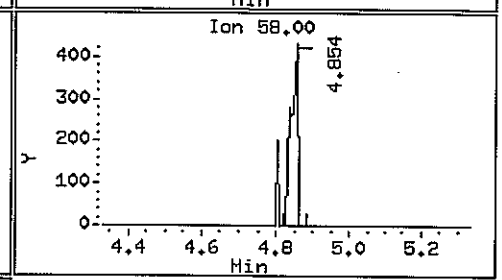
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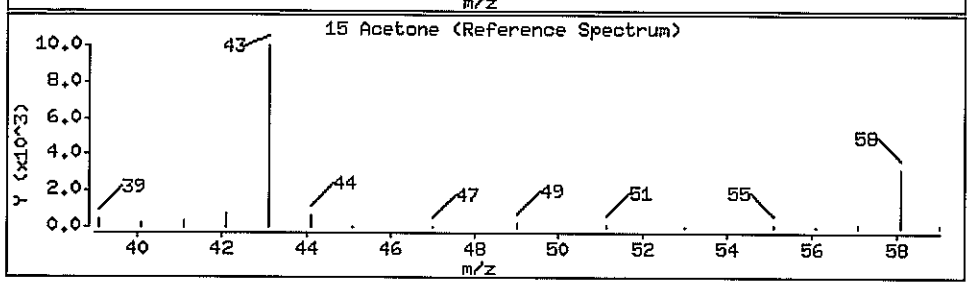
15 Acetone Concentration: 2.9 ug/l







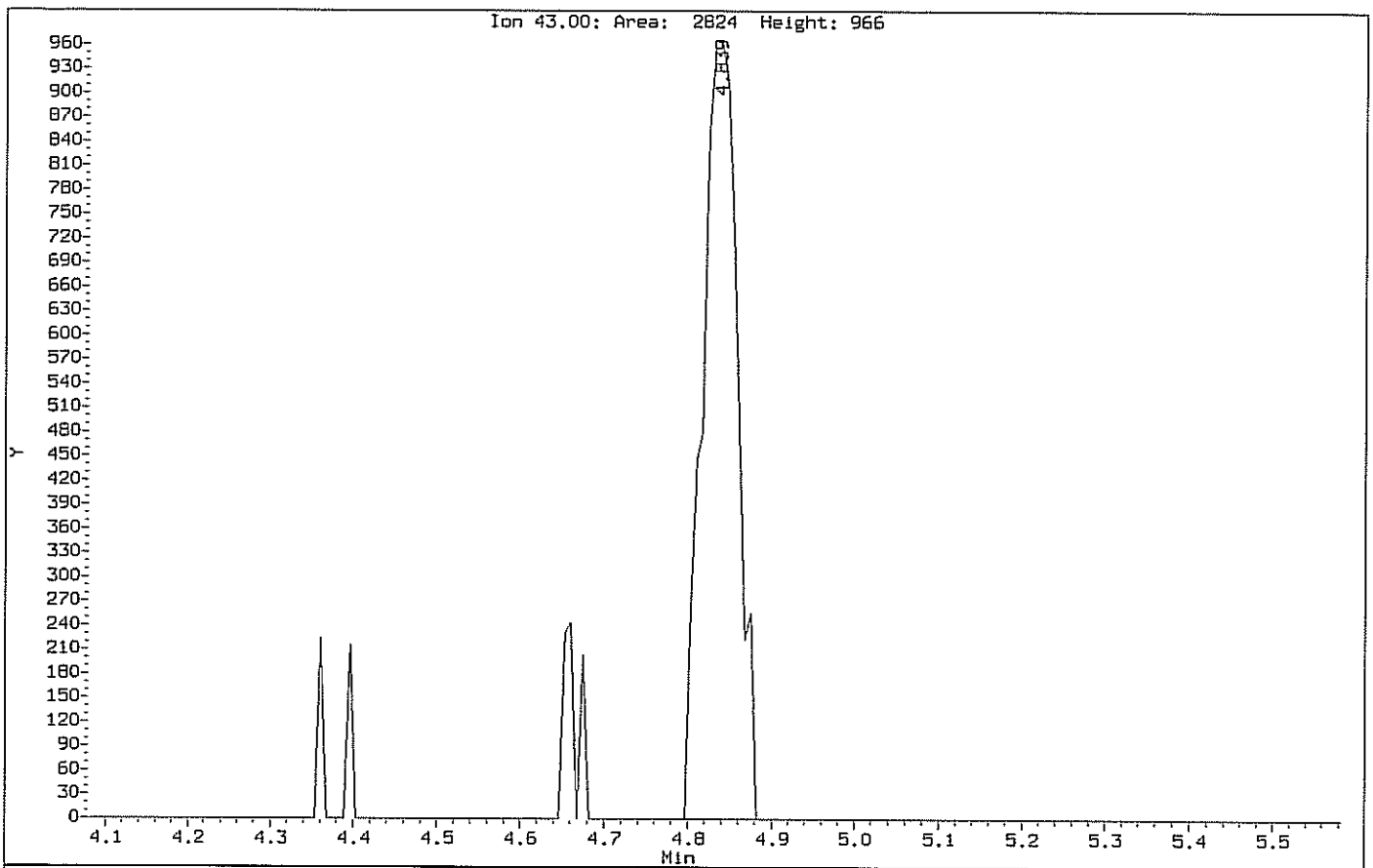


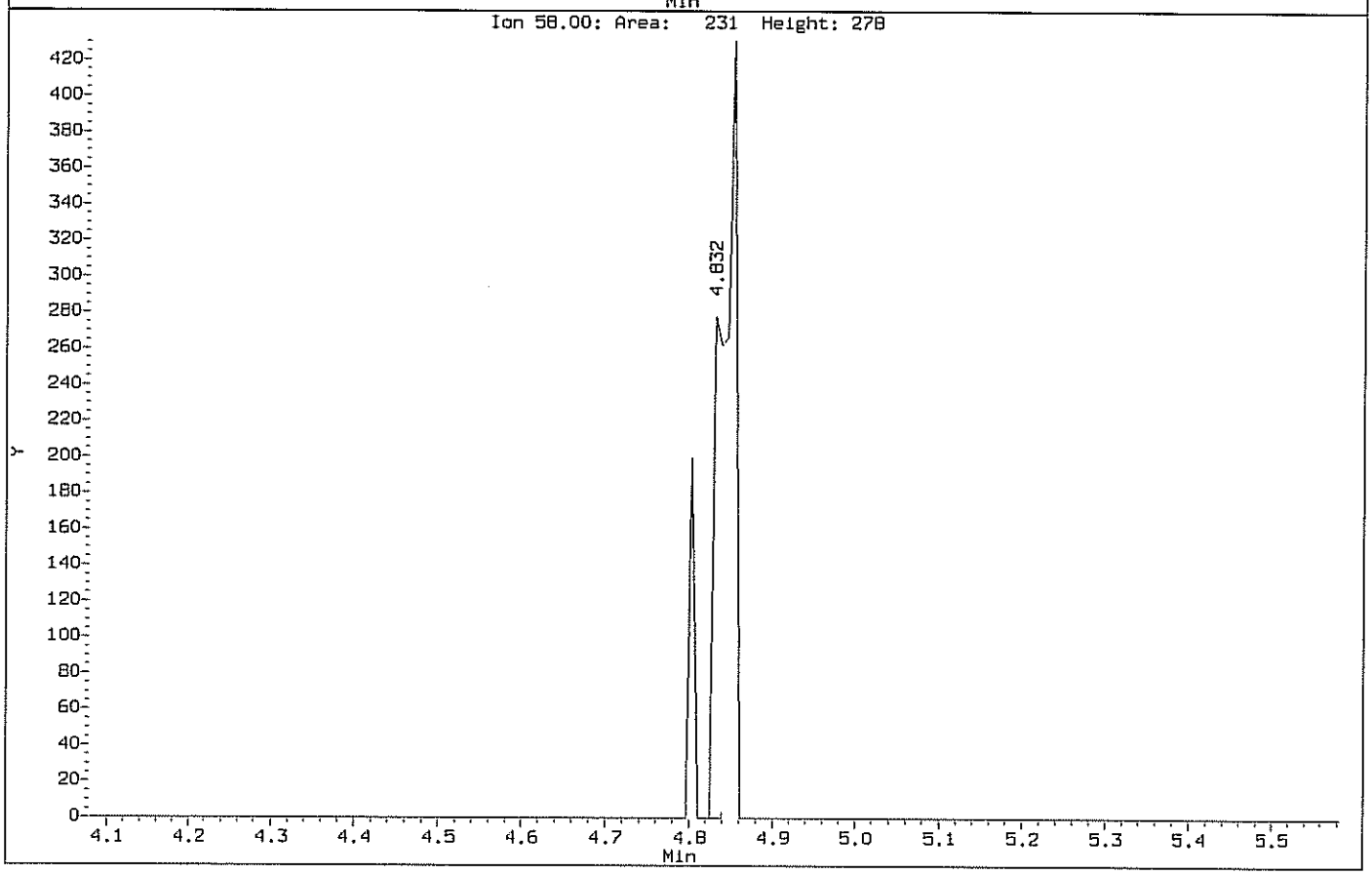


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Injection Date: 23-APR-2012 16:11
Instrument: gcms-d.i
Client Sample ID: AOC9-SW03PM04162012

Compound: Acetone
CAS Number: 67-64-1

Before

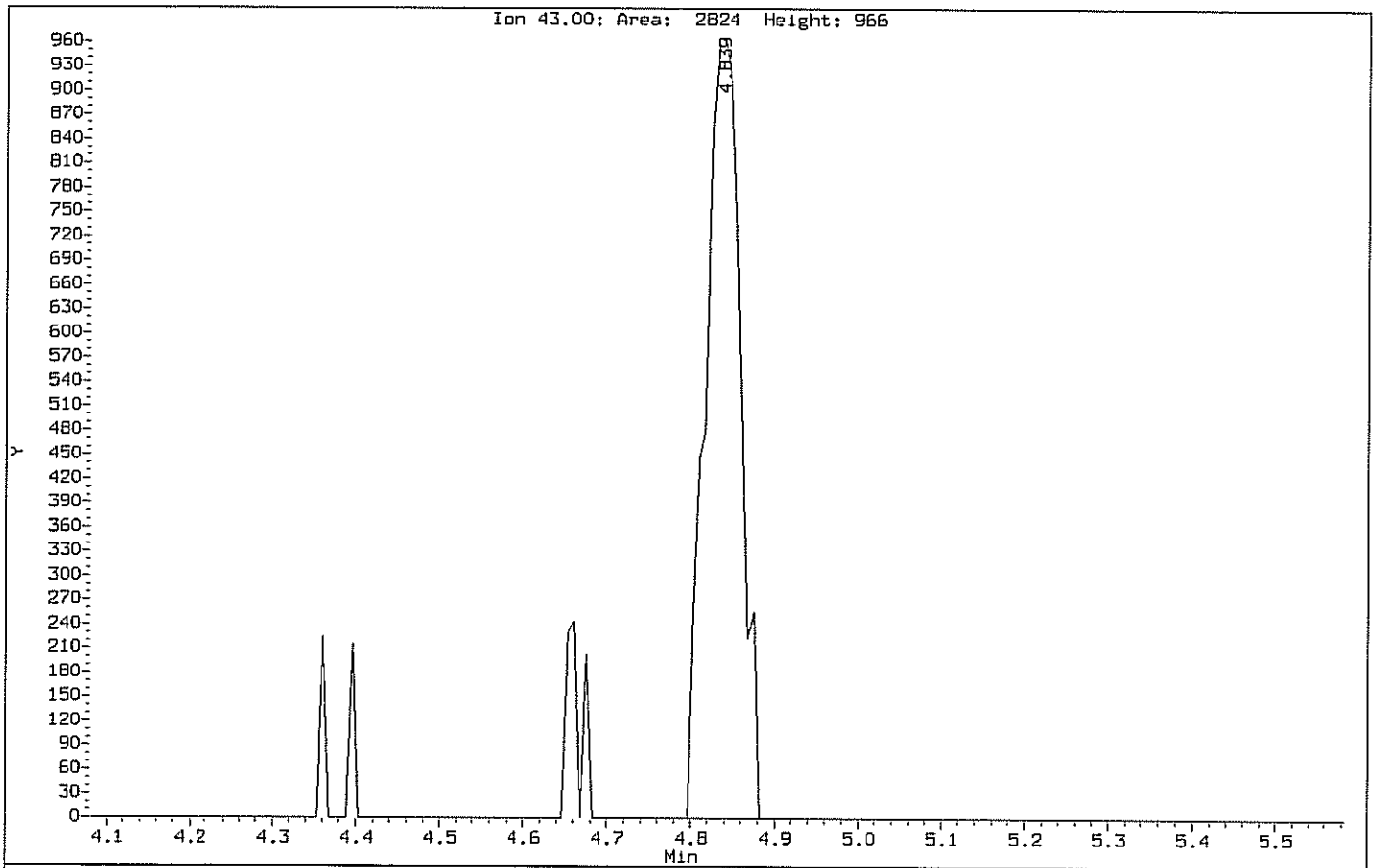


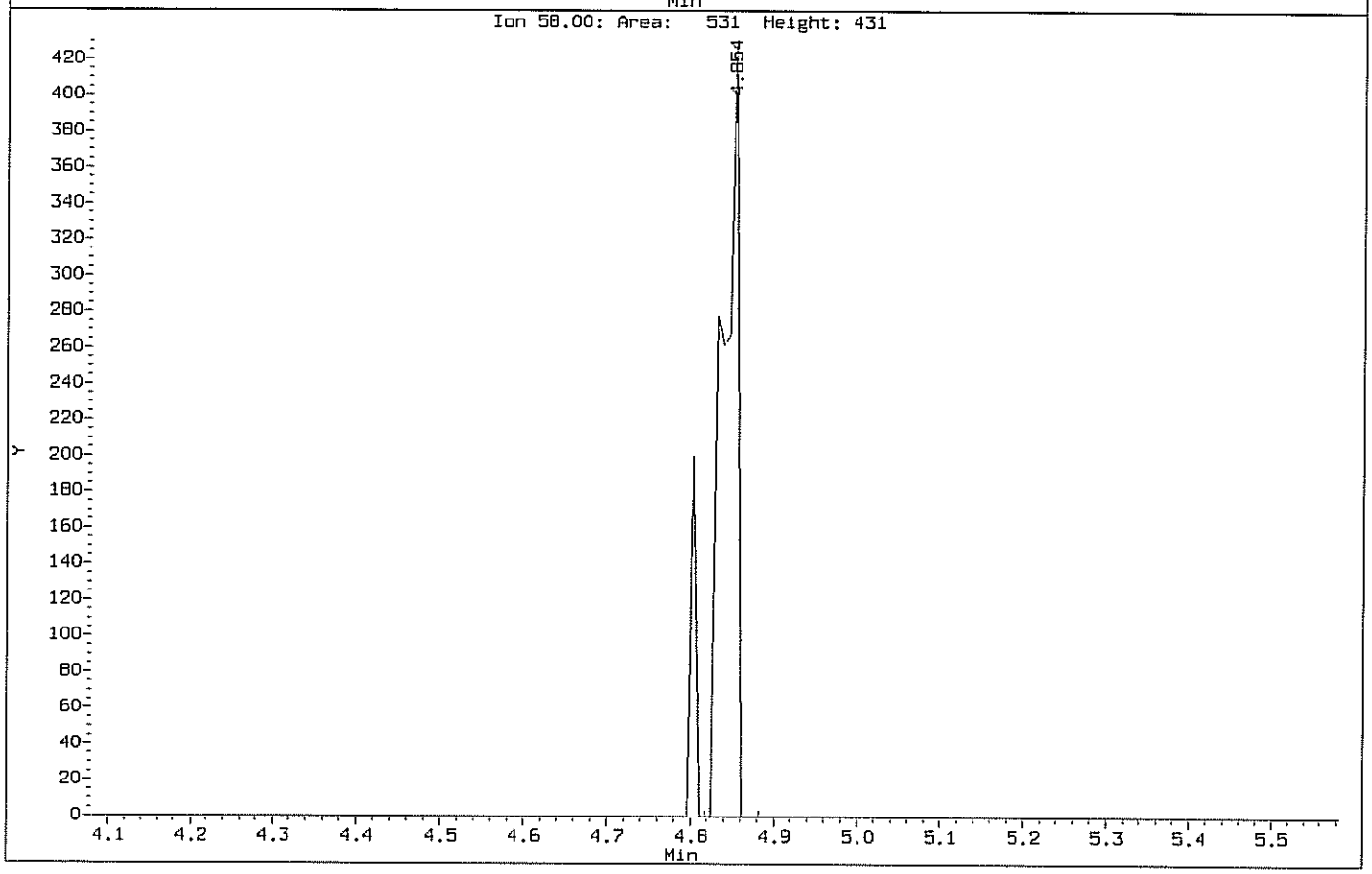


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Injection Date: 23-APR-2012 16:11
Instrument: gcms-d.i
Client Sample ID: ADC9-SW03PM04162012

Compound: Acetone
CAS Number: 67-64-1

After





Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-3
Client ID: AOC9-SW02PM0416201
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9690.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	J	3.2	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

600 Technology Way
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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-3
Client ID: AOC9-SW02PM0416201
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9690.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		104.	%					
Toluene-d8		109.	%					
P-Bromofluorobenzene		115.	%					
Dibromofluoromethane		101.	%					

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Data File: \\target_server\GG\chem\gcms-d.i\D042312.b\D9690.D
Report Date: 01-May-2012 16:04

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D042312.b\D9690.D
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Inj Date : 23-APR-2012 16:39 MS Autotune Date: 05-MAR-2010 09:29
Operator : MMM Inst ID: gcms-d.i
Smp Info : SF2129-3
Misc Info : WG107276,WG107009-4
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-d.i\D042312.b\D826A91.m
Meth Date : 01-May-2012 15:50 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
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Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ENEGFS.sub
Target Version: 4.12
Processing Host: T6-0360

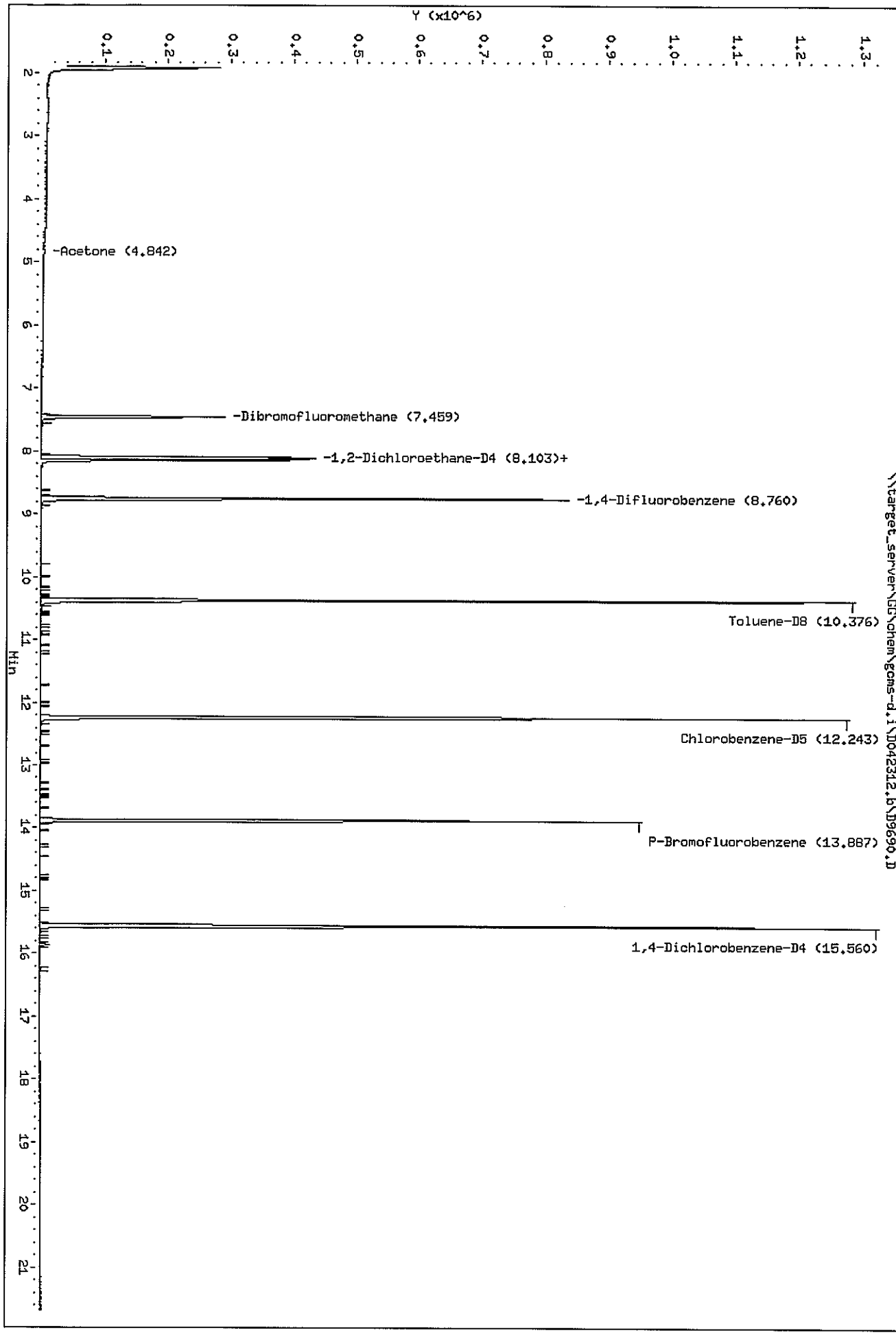
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

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
15 Acetone	43	4.842	4.833	(0.598)	2910	3.25954	3.2(a)	
$ 37 Dibromofluoromethane	113	7.459	7.457	(0.921)	172064	50.6974	50.7	
$ 45 1,2-Dichloroethane-D4	65	8.138	8.135	(1.004)	207381	51.9943	52.0	
$ 55 Toluene-D8	98	10.376	10.374	(1.184)	809843	54.6120	54.6	
$ 76 P-Bromofluorobenzene	95	13.887	13.878	(1.585)	336792	57.7108	57.7	
* 42 Pentafluorobenzene	168	8.102	8.100	(1.000)	348906	50.0000		
* 49 1,4-Difluorobenzene	114	8.760	8.751	(1.000)	672698	50.0000		
* 66 Chlorobenzene-D5	117	12.242	12.233	(1.000)	647437	50.0000		
* 91 1,4-Dichlorobenzene-D4	152	15.560	15.558	(1.000)	345828	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
-Acetone (4.842)
-Dibromofluoromethane (7.459)
-1,2-Dichloroethane-D4 (8.103)+
-1,4-Difluorobenzene (8.760)
Toluene-D8 (10.376)
Chlorobenzene-D5 (12.243)
P-Bromofluorobenzene (13.887)
1,4-Dichlorobenzene-D4 (15.560)
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Date : 23-APR-2012 16:39
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Sample Info: SF2129-3
Instrument: gcms-d.i

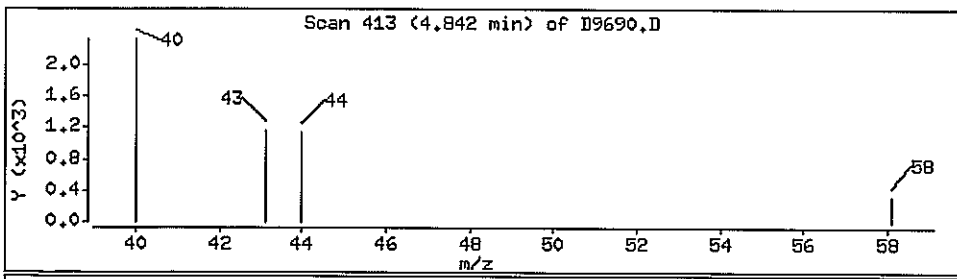
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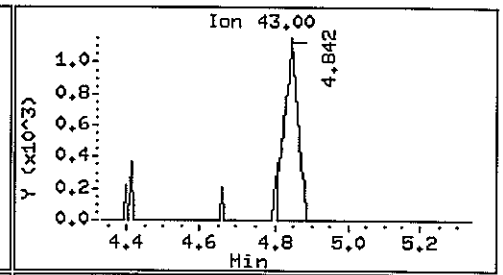
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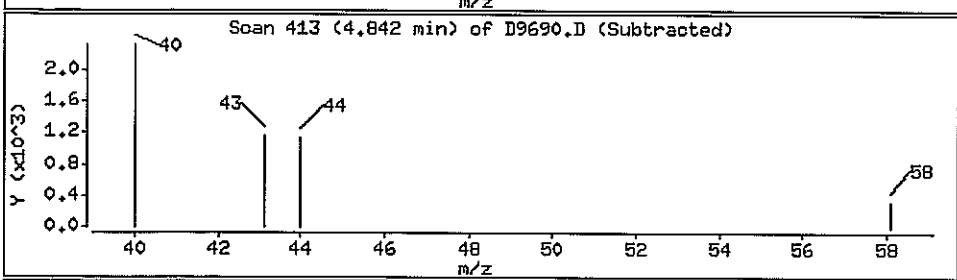
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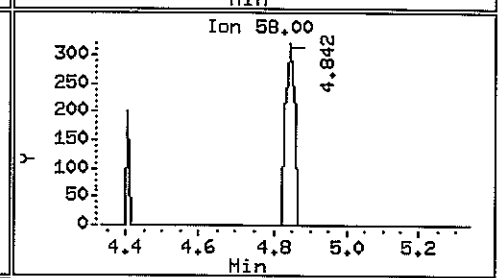
Sample Info: SF2129-3

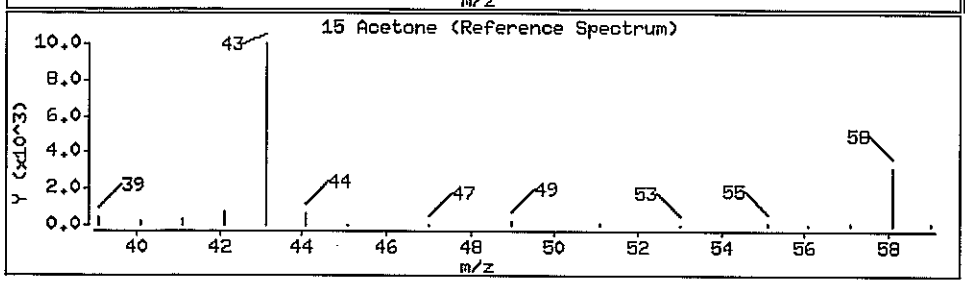
15 Acetone Concentration: 3.2 ug/l











Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-4
Client ID: AOC9-SW01PM0416201
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9691.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	J	2.5	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

600 Technology Way
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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-4
Client ID: AOC9-SW01PM0416201
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9691.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		104.	%					
Toluene-d8		110.	%					
P-Bromofluorobenzene		115.	%					
Dibromofluoromethane		103.	%					

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Data File: \\target_server\GG\chem\gcms-d.i\D042312.b\D9691.D
Report Date: 01-May-2012 16:04

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D042312.b\D9691.D
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Inj Date : 23-APR-2012 17:08 MS Autotune Date: 05-MAR-2010 09:29
Operator : MMM Inst ID: gcms-d.i
Smp Info : SF2129-4
Misc Info : WG107276,WG107009-4
Comment : SW846 5030
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Meth Date : 01-May-2012 15:50 gcms-d.i Quant Type: ISTD
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Dil Factor: 1.00000
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Target Version: 4.12
Processing Host: T6-0360

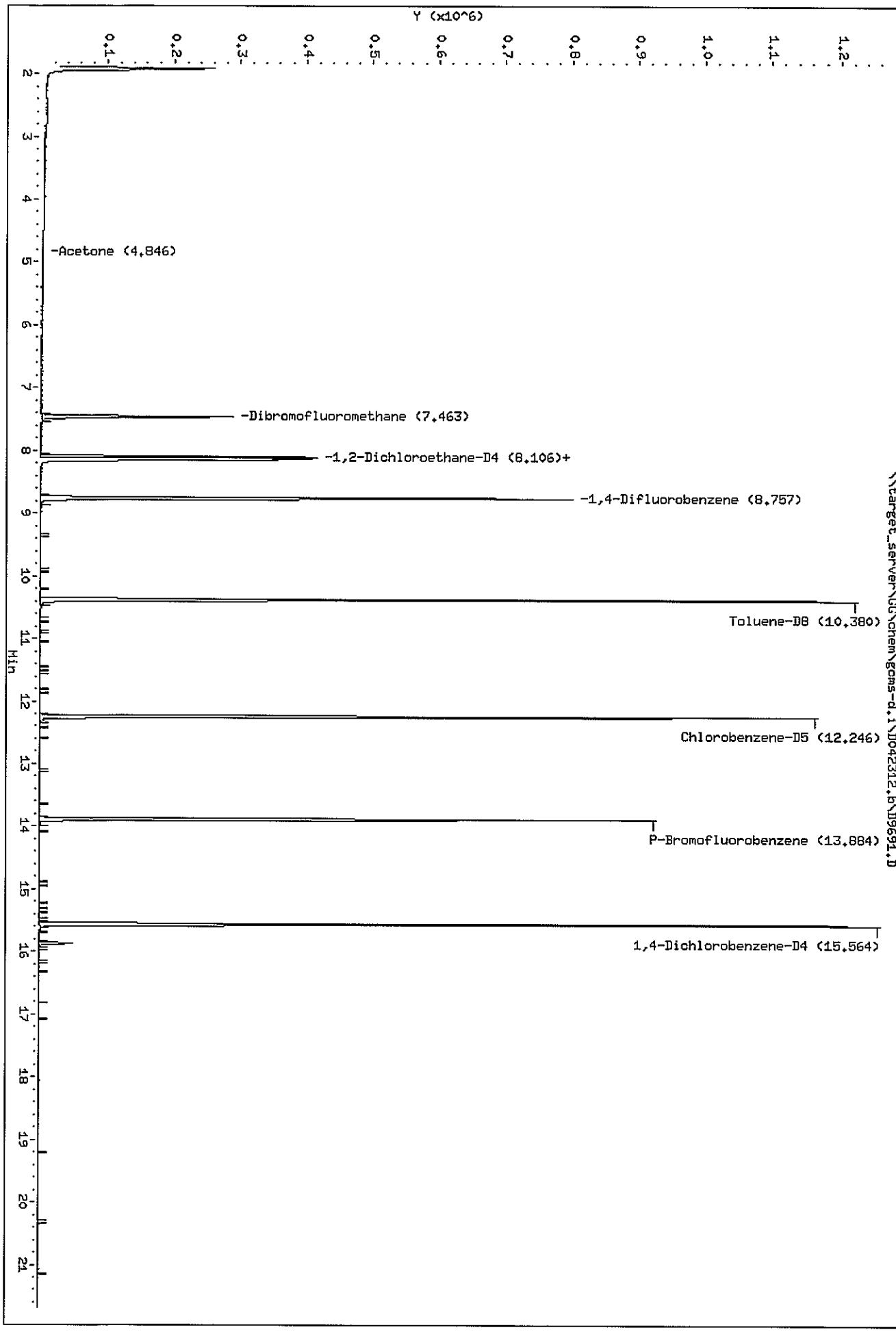
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

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
15 Acetone	43	4.845	4.833	(0.598)	2137	2.47969	2.5(a)	
$ 37 Dibromofluoromethane	113	7.462	7.457	(0.921)	168302	51.3706	51.4	
$ 45 1,2-Dichloroethane-D4	65	8.142	8.135	(1.004)	201327	52.2900	52.3	
$ 55 Toluene-D8	98	10.380	10.374	(1.185)	779417	54.9307	54.9	
$ 76 P-Bromofluorobenzene	95	13.883	13.878	(1.585)	322447	57.7447	57.7	
* 42 Pentafluorobenzene	168	8.106	8.100	(1.000)	336805	50.0000		
* 49 1,4-Difluorobenzene	114	8.757	8.751	(1.000)	643668	50.0000		
* 66 Chlorobenzene-D5	117	12.246	12.233	(1.000)	623950	50.0000		
* 91 1,4-Dichlorobenzene-D4	152	15.564	15.558	(1.000)	334442	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
Min
-Acetone (4.846)
-Dibromofluoromethane (7.463)
-1,2-Dichloroethane-D4 (8.106)+
-1,4-Difluorobenzene (8.757)
Toluene-D8 (10.380)
Chlorobenzene-D5 (12.246)
P-Bromofluorobenzene (13.884)
1,4-Dichlorobenzene-D4 (15.564)
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Client ID: ADC9-SW01PH04162012
Sample Info: SF2129-4
Instrument: gcms-d.i

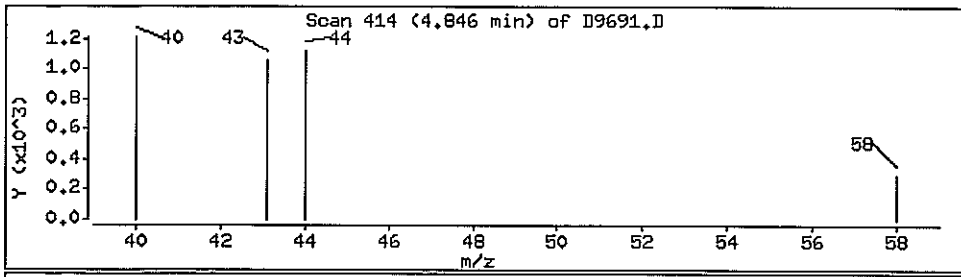
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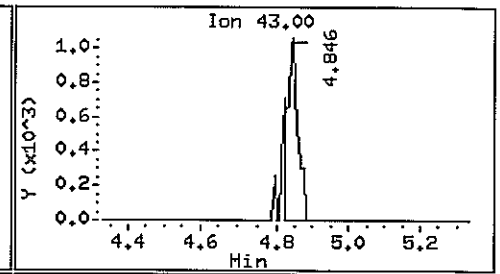
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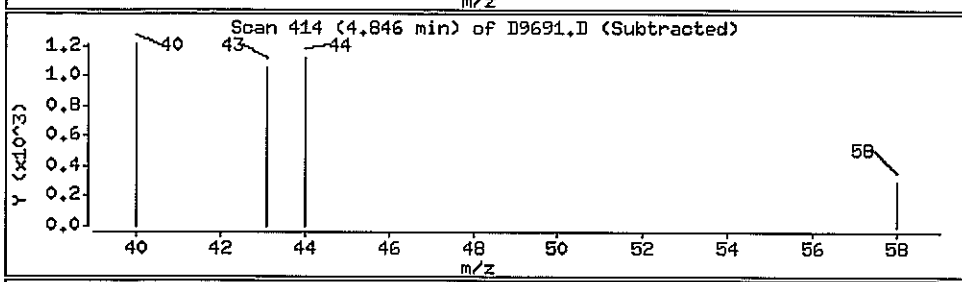
Client ID: AOC9-SW01PM04162012 Instrument: gcms-d.i

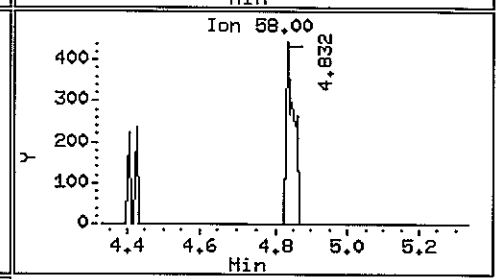
Sample Info: SF2129-4

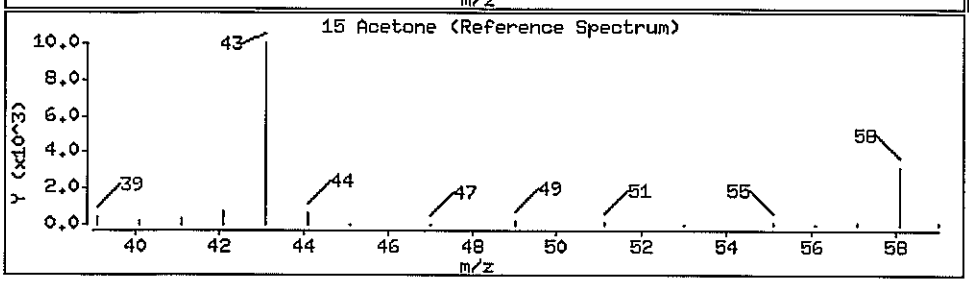
15 Acetone Concentration: 2.5 ug/l











Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-5
Client ID: AOC9-MW06PM041620
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9692.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-5
Client ID: AOC9-MW06PM041620
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9692.D

Sample Date: 16-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		106.	%					
Toluene-d8		109.	%					
P-Bromofluorobenzene		115.	%					
Dibromofluoromethane		101.	%					

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Tel:(207) 874-2400 Fax:(207) 775-4029

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Report Date: 01-May-2012 16:04

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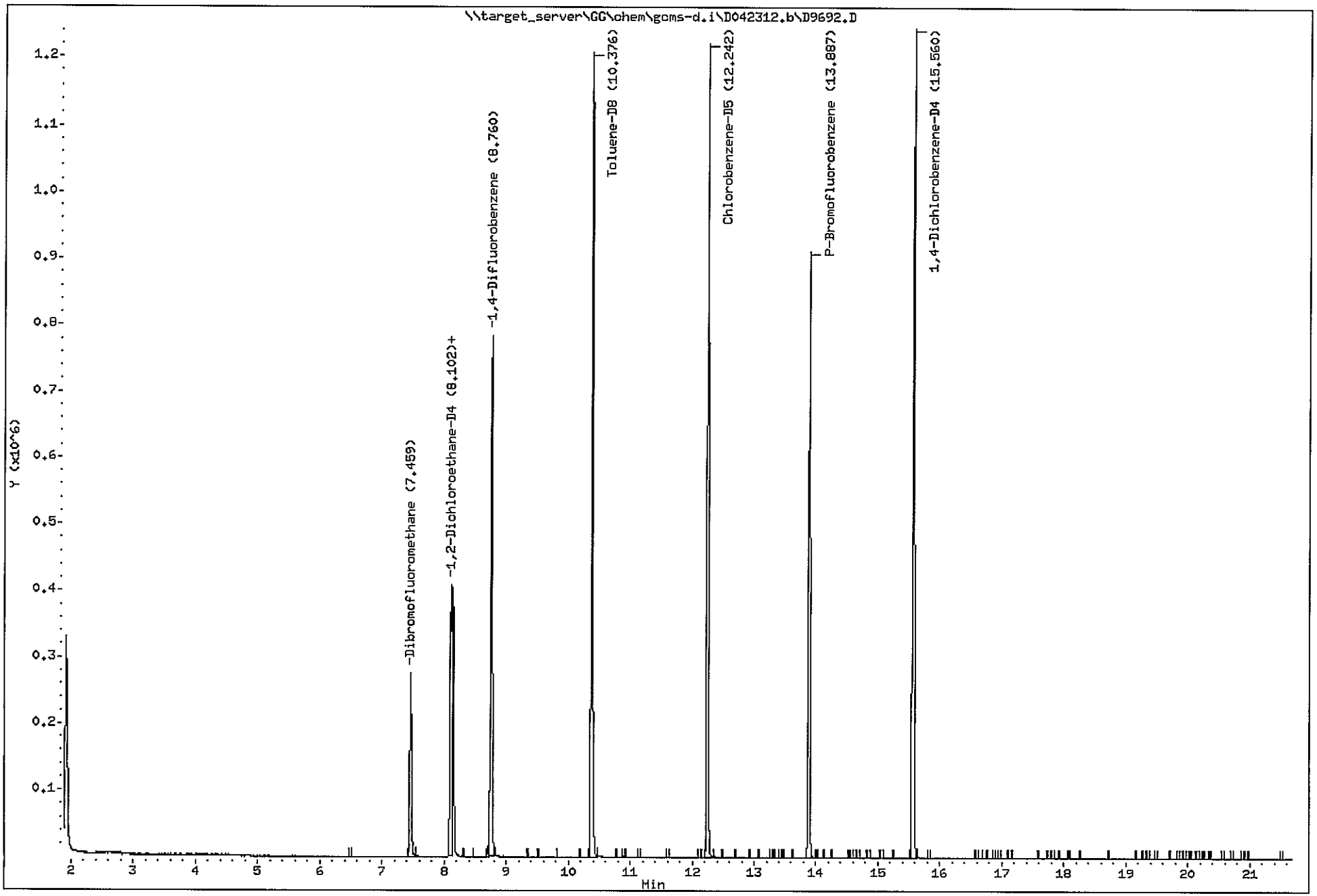
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Misc Info : WG107276,WG107009-4
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-d.i\D042312.b\D826A91.m
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Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ENEGFS.sub
Target Version: 4.12
Processing Host: T6-0360

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
$ 37 Dibromofluoromethane	113	7.458	7.457	(0.921)	160638	50.5933	50.6	
$ 45 1,2-Dichloroethane-D4	65	8.138	8.135	(1.004)	198065	53.0815	53.1	
$ 55 Toluene-D8	98	10.376	10.374	(1.184)	758715	54.3227	54.3	
$ 76 P-Bromofluorobenzene	95	13.886	13.878	(1.585)	315425	57.3862	57.4	
* 42 Pentafluorobenzene	168	8.102	8.100	(1.000)	326407	50.0000		
* 49 1,4-Difluorobenzene	114	8.760	8.751	(1.000)	633584	50.0000		
* 66 Chlorobenzene-D5	117	12.242	12.233	(1.000)	608293	50.0000		
* 91 1,4-Dichlorobenzene-D4	152	15.559	15.558	(1.000)	325783	50.0000		

Data File: \\target_server\GG\chem\goms-d.i\D042312.b\D9692.D
Date : 23-APR-2012 17:36
Client ID: AOC9-MW06PM04162012
Instrument: goms-d.i
Sample Info: SF2129-5



Katahdin Analytical Services 1000038

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-6
Client ID: AOC9-MW17PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9729.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	J	1.2	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		3.9	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene		1.6	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		20.	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene		4.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-6
Client ID: AOC9-MW17PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9729.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	E	300	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	J	0.91	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		15.	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		67.	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		101.	%					
Toluene-d8		109.	%					
P-Bromofluorobenzene		117.	%					
Dibromofluoromethane		99.4	%					

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Data File: \\target_server\GG\chem\gcms-d.i\D042412.b\D9729.D
Report Date: 03-May-2012 09:43

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D042412.b\D9729.D
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Inj Date : 24-APR-2012 18:17 MS Autotune Date: 05-MAR-2010 09:29
Operator : MMM Inst ID: gcms-d.i
Smp Info : SF2129-6
Misc Info : WG107338,WG107009-4
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Meth Date : 03-May-2012 09:27 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ENEGFS.sub
Target Version: 4.12
Processing Host: T6-0360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

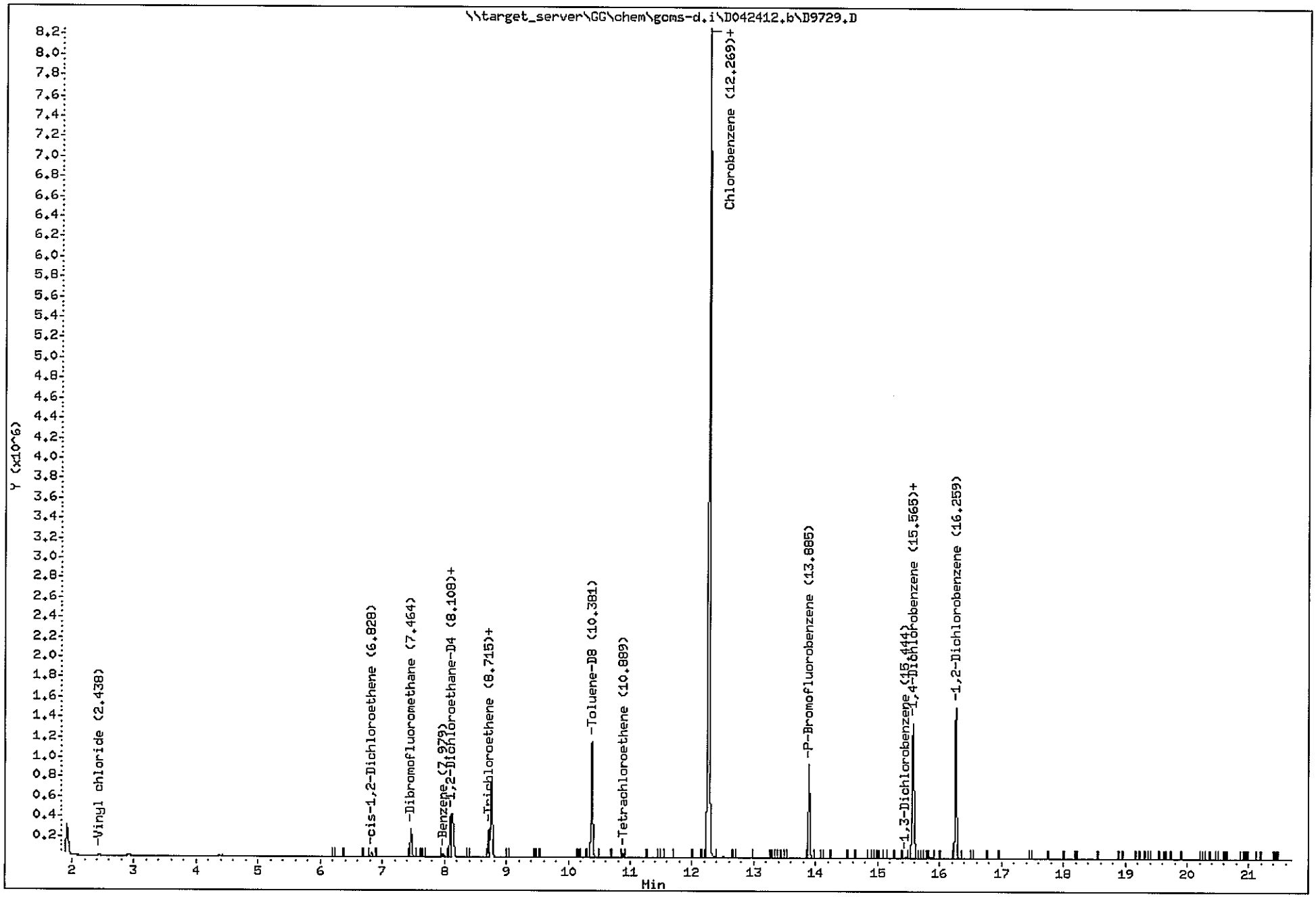
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
3	Vinyl chloride	62	2.437	2.437	(0.301)	9789	1.21732	1.2(a)	
29	cis-1,2-Dichloroethene	96	6.827	6.828	(0.842)	16816	3.92669	3.9	
41	Benzene	78	7.978	7.972	(0.911)	30148	1.62714	1.6	
48	Trichloroethene	95	8.715	8.708	(0.995)	84852	19.8284	19.8	
59	Tetrachloroethene	164	10.889	10.882	(0.889)	8412	4.01679	4.0	
67	Chlorobenzene	112	12.269	12.254	(1.002)	4081753	304.991	305(A)	
90	1,3-Dichlorobenzene	146	15.450	15.436	(0.993)	9192	0.91461	0.91(a)	
92	1,4-Dichlorobenzene	146	15.586	15.579	(1.001)	162684	15.0827	15.1	
95	1,2-Dichlorobenzene	146	16.258	16.251	(1.045)	620120	67.0293	67.0	
$ 37	Dibromofluoromethane	113	7.464	7.457	(0.921)	165719	49.7015	49.7	
$ 45	1,2-Dichloroethane-D4	65	8.143	8.135	(1.004)	197658	50.4432	50.4	
$ 55	Toluene-D8	98	10.381	10.374	(1.185)	784778	54.7050	54.7	
$ 76	P-Bromofluorobenzene	95	13.884	13.878	(1.585)	330159	58.4806	58.5	
* 42	Pentafluorobenzene	168	8.107	8.100	(1.000)	342773	50.0000		
* 49	1,4-Difluorobenzene	114	8.758	8.751	(1.000)	650769	50.0000		
* 66	Chlorobenzene-D5	117	12.247	12.233	(1.000)	705955	50.0000		
* 91	1,4-Dichlorobenzene-D4	152	15.565	15.558	(1.000)	344912	50.0000		

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.

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Client ID: AOC9-MW17PM04172012
Instrument: gcms-d.i
Sample Info: SF2129-6



Katahdin Analytical Services 1000042

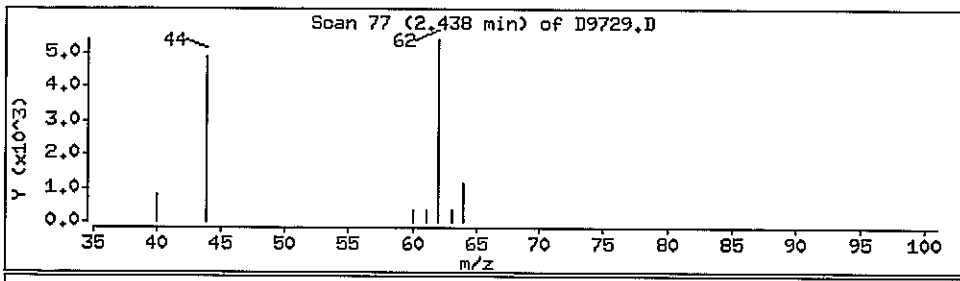
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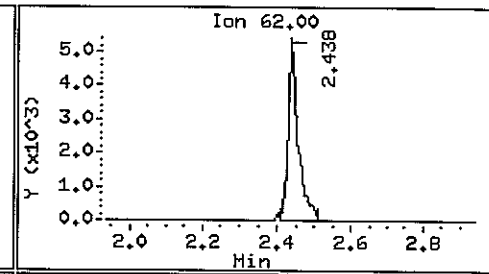
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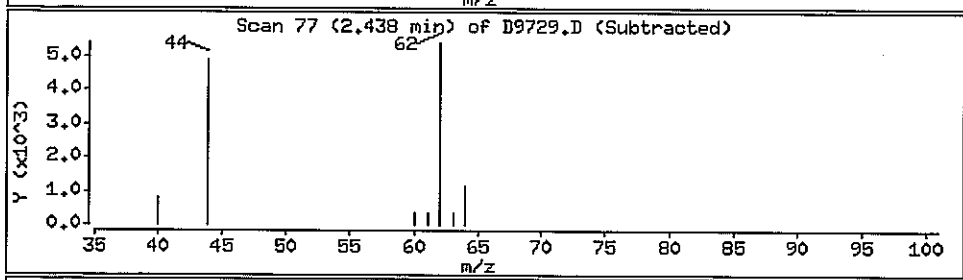
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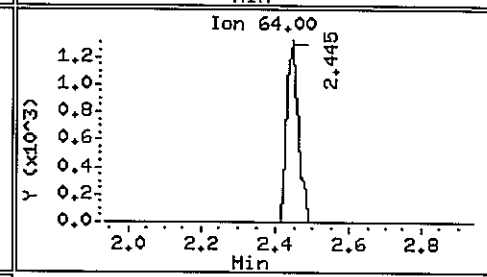
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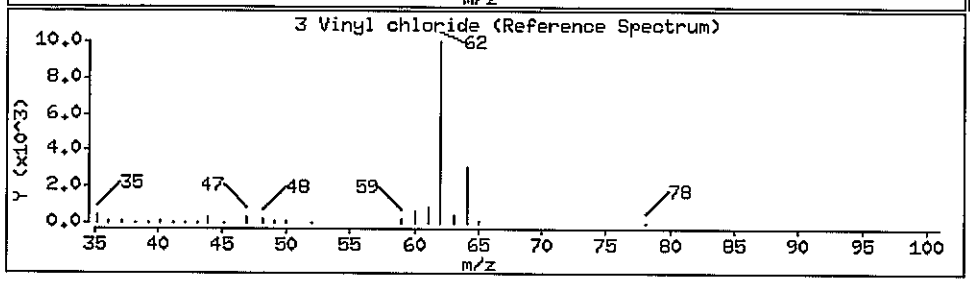
3 Vinyl chloride Concentration: 1.2 ug/l



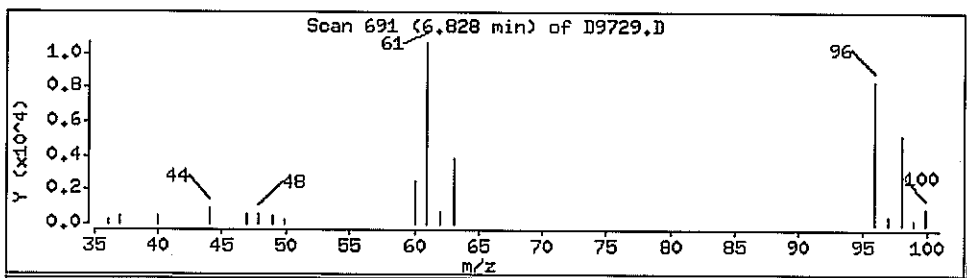


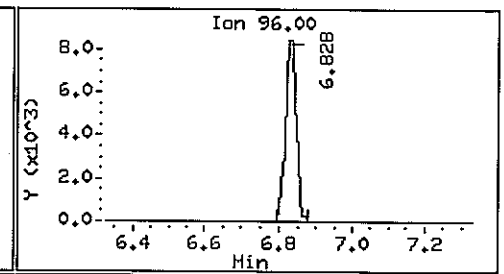


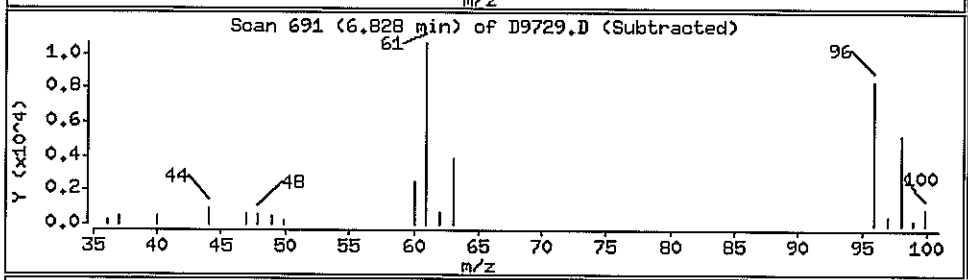


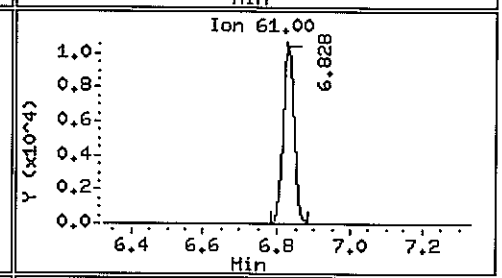


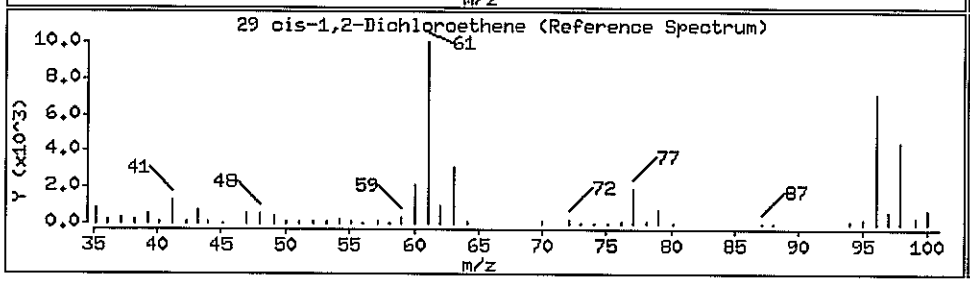
29 cis-1,2-Dichloroethene Concentration: 3.9 ug/l

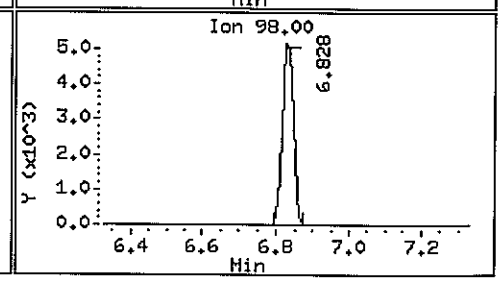












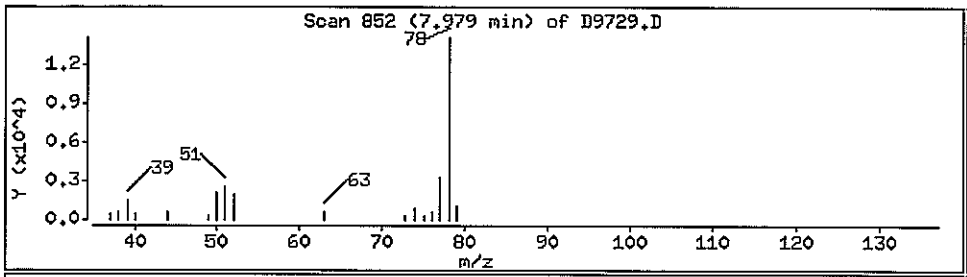
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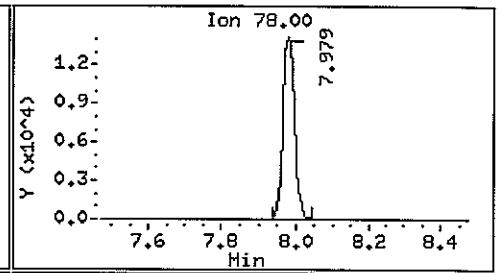
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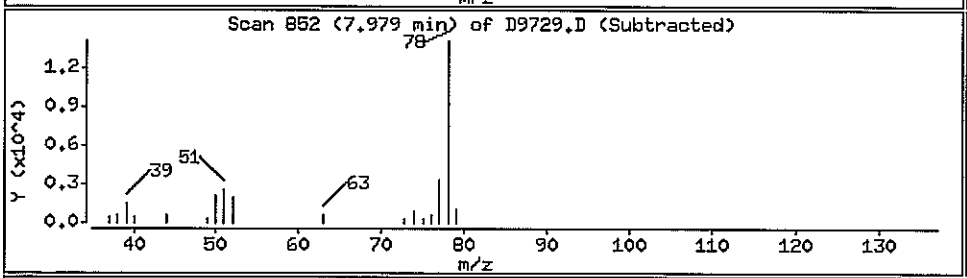
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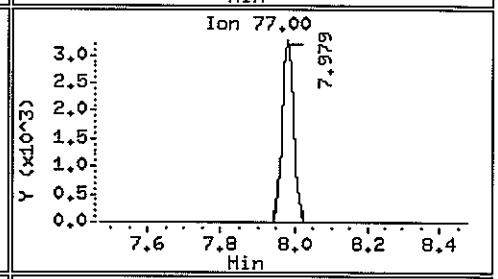
Sample Info: SF2129-6

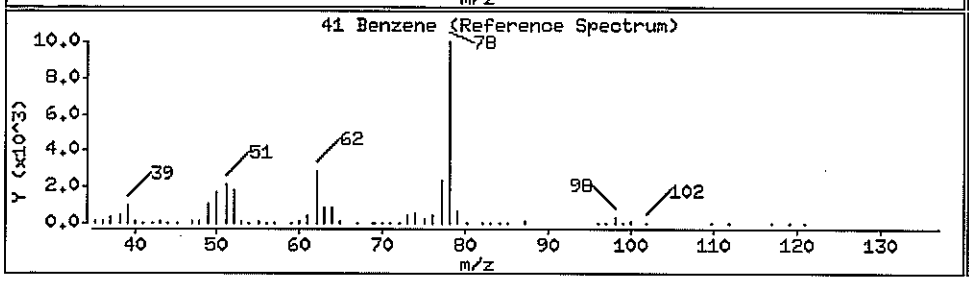
41 Benzene Concentration: 1.6 ug/l

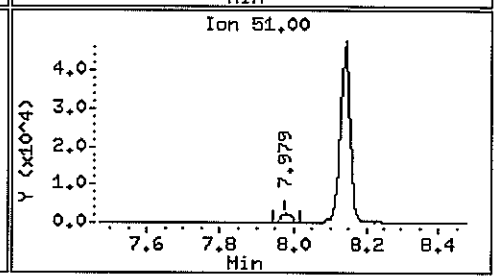




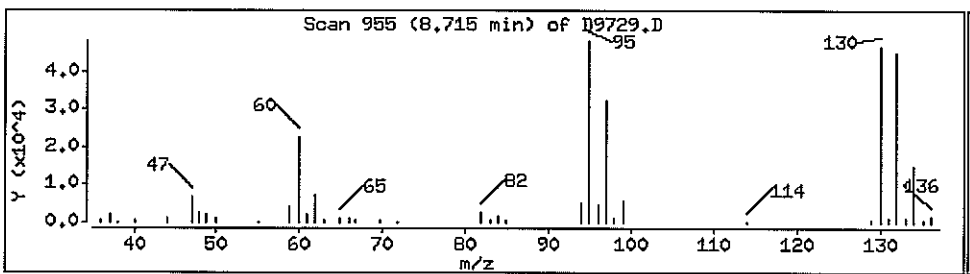


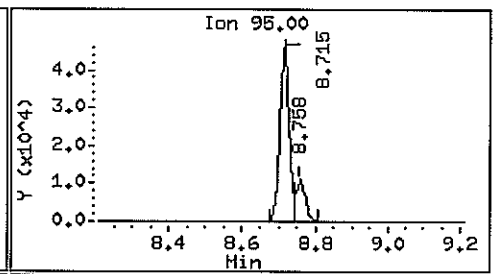


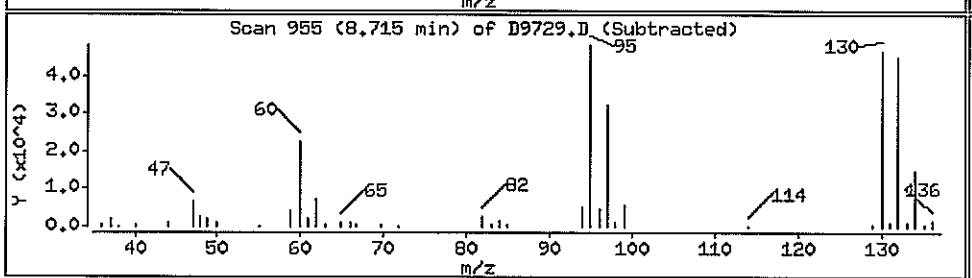


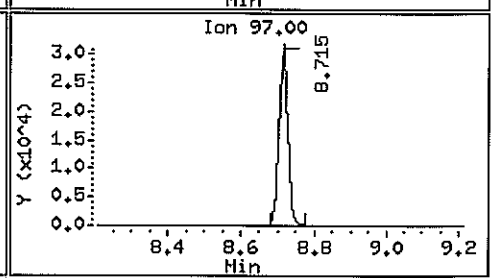


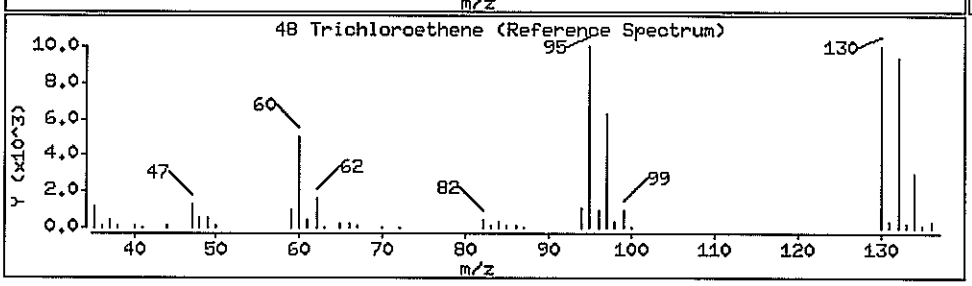
48 Trichloroethene Concentration: 19.8 ug/l











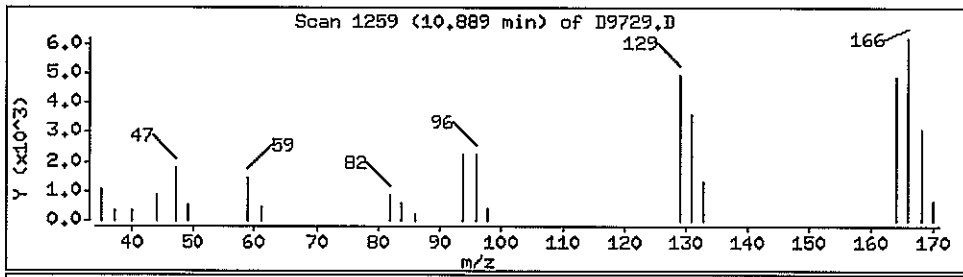
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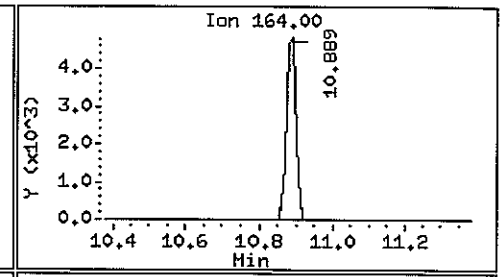
Date : 24-APR-2012 18:17

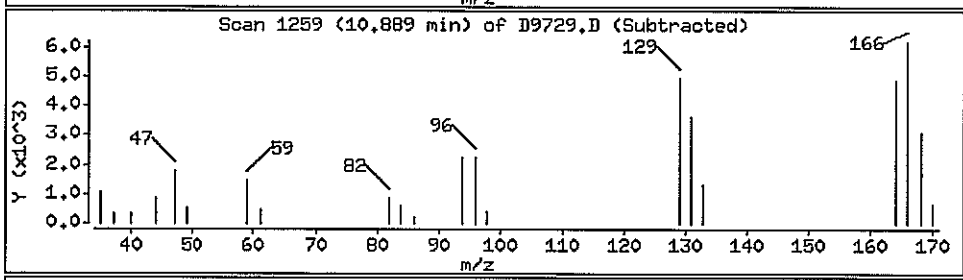
Client ID: ADC9-MW17PM04172012 Instrument: gcms-d.i

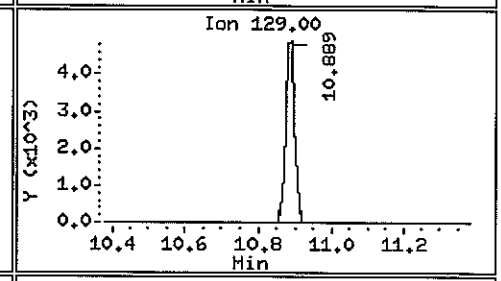
Sample Info: SF2129-6

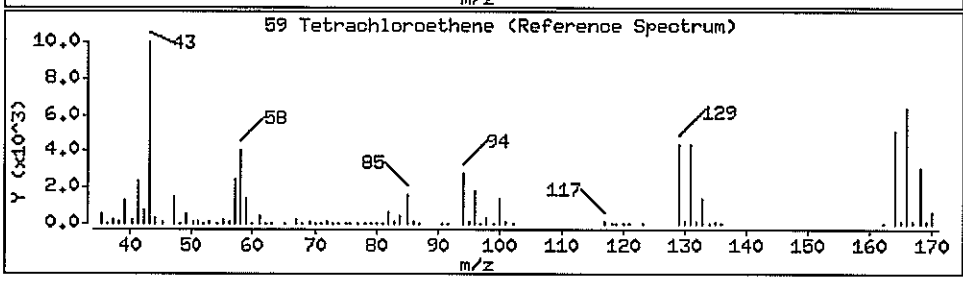
59 Tetrachloroethene Concentration: 4.0 ug/l

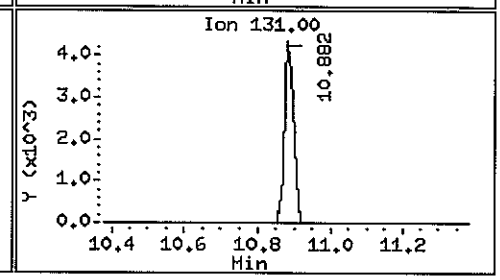




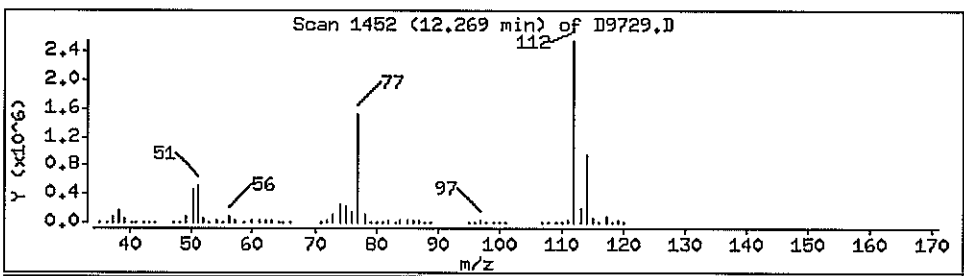


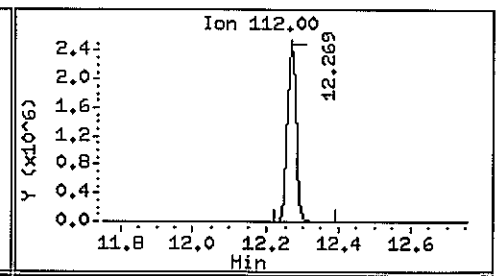


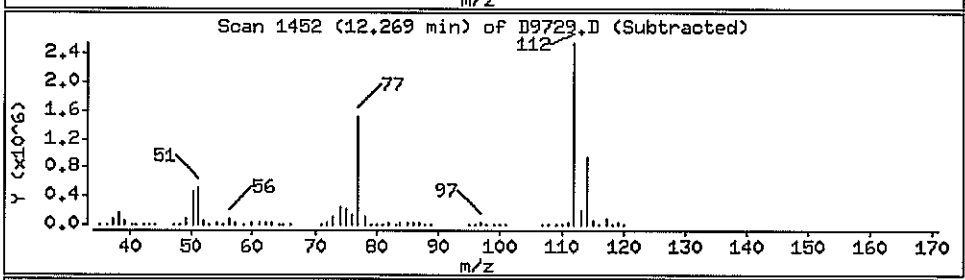


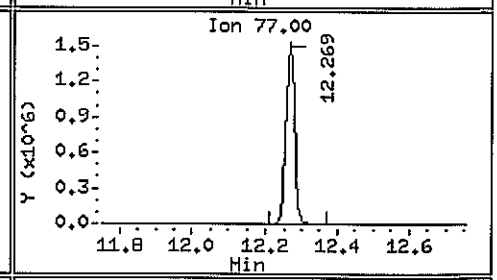


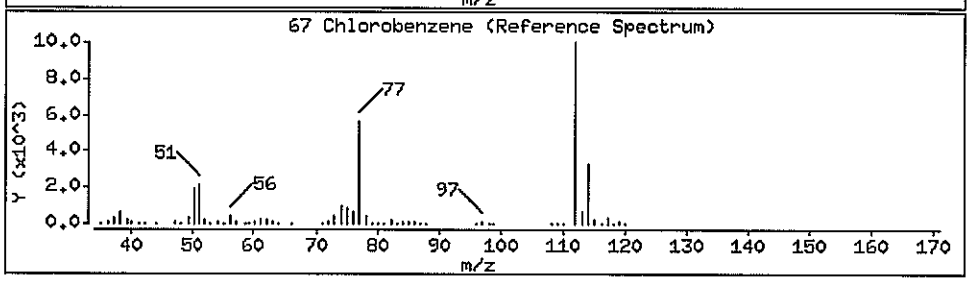
67 Chlorobenzene Concentration: 305 ug/l

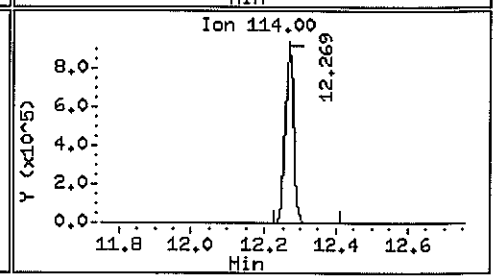












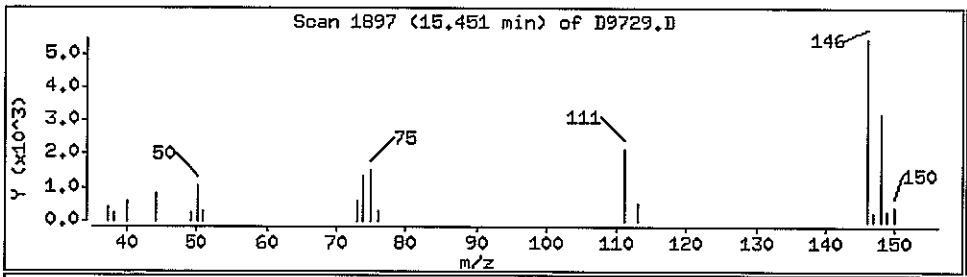
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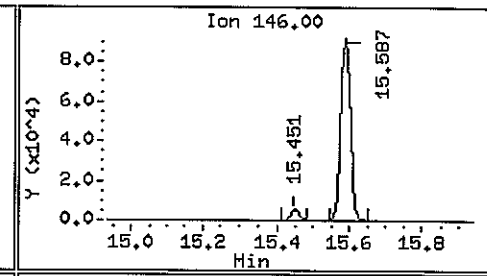
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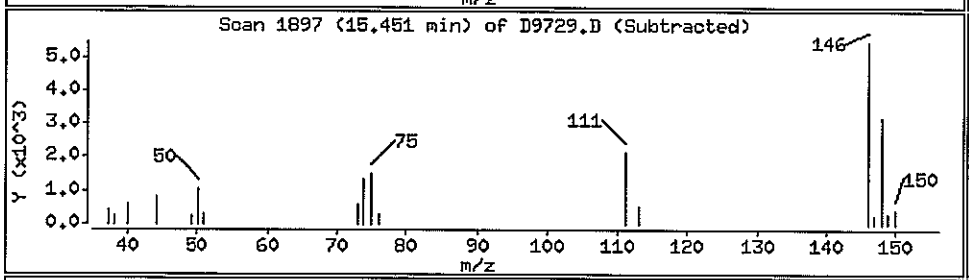
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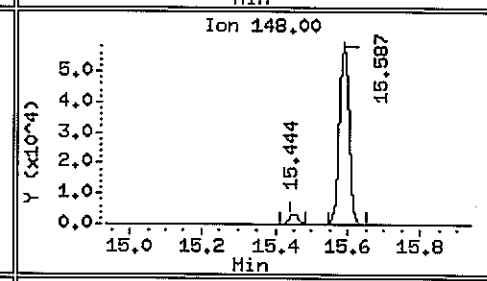
Sample Info: SF2129-6

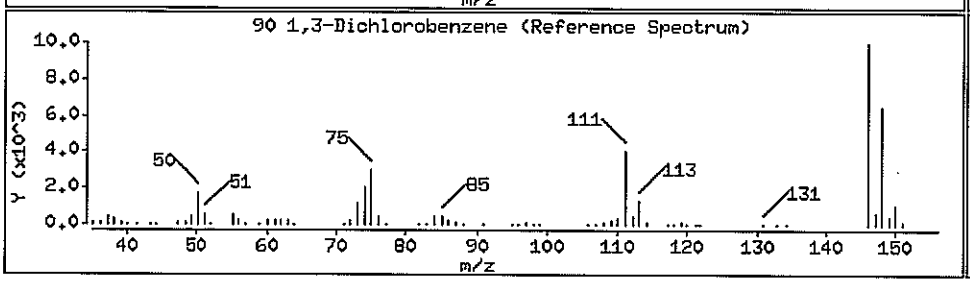
90 1,3-Dichlorobenzene Concentration: 0.91 ug/l

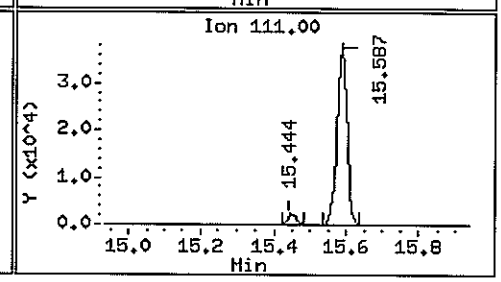




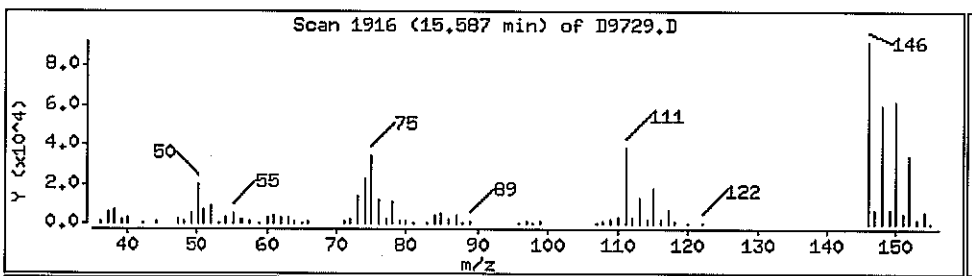


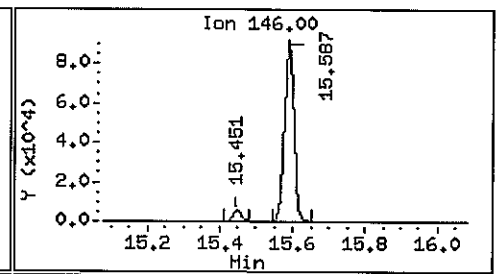


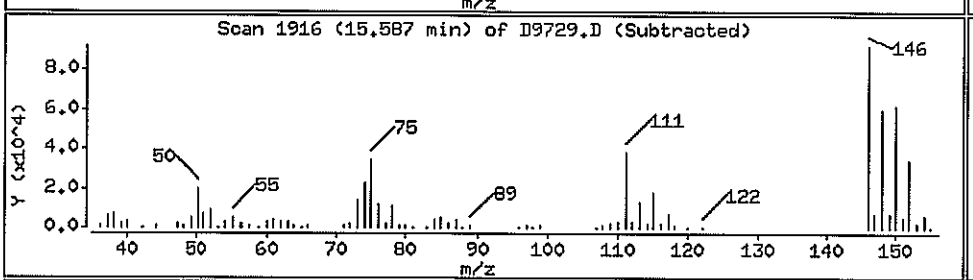


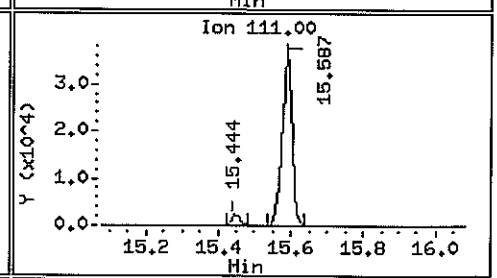


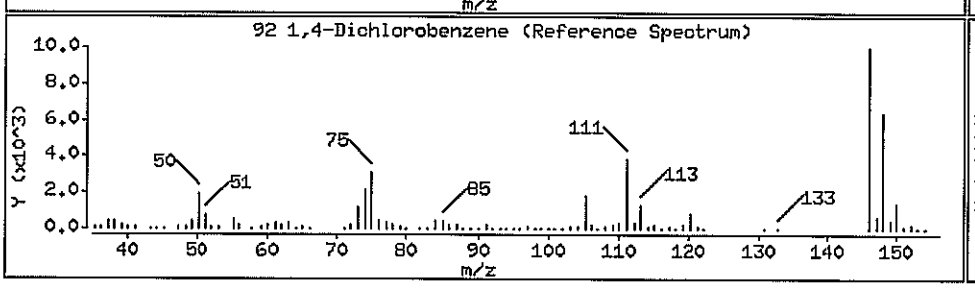
92 1,4-Dichlorobenzene Concentration: 15.1 ug/l

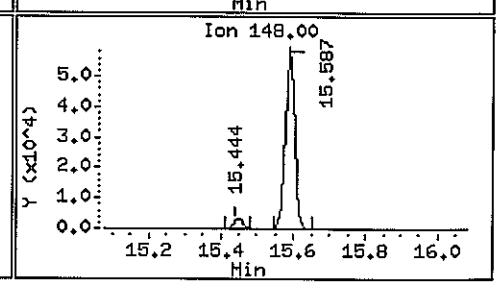












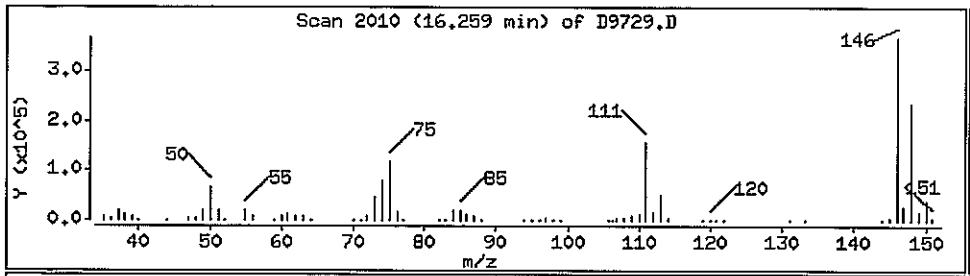
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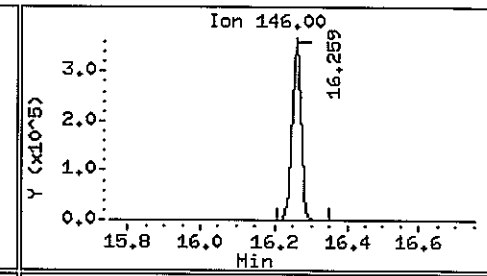
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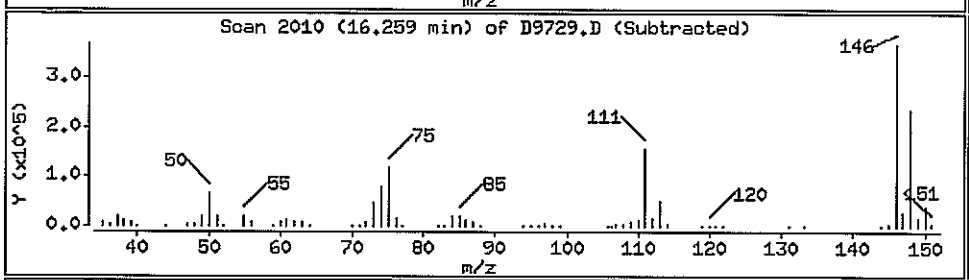
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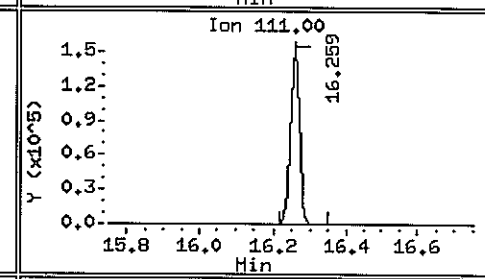
Sample Info: SF2129-6

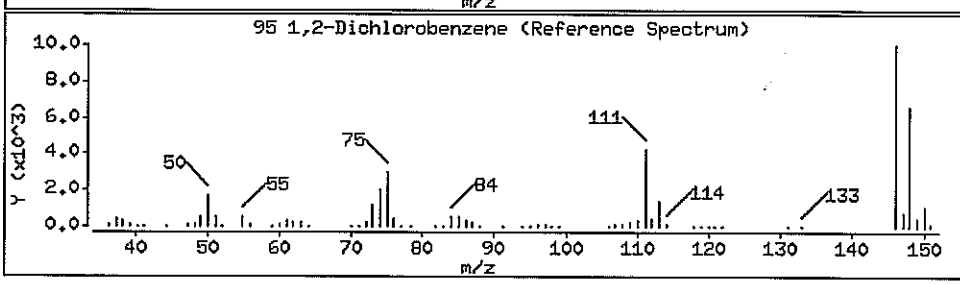
95 1,2-Dichlorobenzene Concentration: 67.0 ug/l

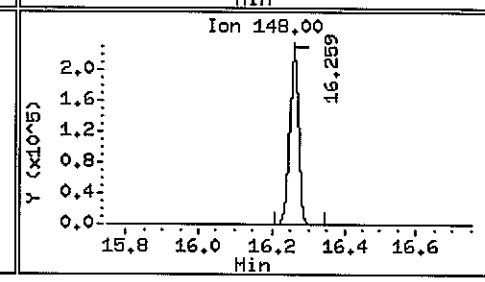












Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-6DL
Client ID: AOC9-MW17PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9694.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	10.	ug/L	5	2	10.	1.2	5.0
Chloromethane	U	10.	ug/L	5	2	10.	1.8	5.0
Vinyl Chloride	U	10.	ug/L	5	2	10.	1.2	5.0
Bromomethane	U	10.	ug/L	5	2	10.	2.4	5.0
Chloroethane	U	10.	ug/L	5	2	10.	2.8	5.0
Trichlorofluoromethane	U	10.	ug/L	5	2	10.	1.2	5.0
1,1-Dichloroethene	U	5.0	ug/L	5	1	5.0	1.8	2.5
Freon-113	U	5.0	ug/L	5	1	5.0	1.6	2.5
Acetone	U	25.	ug/L	5	5	25.	11.	12.
Carbon Disulfide	U	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl Acetate	U	5.0	ug/L	5	1	5.0	2.6	3.8
Methylene Chloride	U	25.	ug/L	5	5	25.	5.6	12.
trans-1,2-Dichloroethene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl tert-butyl Ether	U	5.0	ug/L	5	1	5.0	1.8	2.5
1,1-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
cis-1,2-Dichloroethene	J	3.5	ug/L	5	1	5.0	1.0	2.5
2-Butanone	U	25.	ug/L	5	5	25.	6.6	12.
Chloroform	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,1,1-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Cyclohexane	U	5.0	ug/L	5	1	5.0	1.6	2.5
Carbon Tetrachloride	U	5.0	ug/L	5	1	5.0	1.1	2.5
Benzene	J	1.3	ug/L	5	1	5.0	1.3	2.5
1,2-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Trichloroethene		32.	ug/L	5	1	5.0	1.4	2.5
Methylcyclohexane	U	5.0	ug/L	5	1	5.0	1.5	2.5
1,2-Dichloropropane	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromodichloromethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
cis-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	0.95	2.5
4-Methyl-2-Pentanone	U	25.	ug/L	5	5	25.	6.6	12.
Toluene	U	5.0	ug/L	5	1	5.0	1.4	2.5
trans-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,1,2-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
Tetrachloroethene	U	5.0	ug/L	5	1	5.0	2.0	2.5
2-Hexanone	U	25.	ug/L	5	5	25.	8.5	12.
Dibromochloromethane	U	5.0	ug/L	5	1	5.0	1.5	2.5

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-6DL
Client ID: AOC9-MW17PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9694.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	5.0	ug/L	5	1	5.0	1.1	2.5
Chlorobenzene		270	ug/L	5	1	5.0	1.1	2.5
Ethylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
M+P-Xylenes	U	10.	ug/L	5	2	10.	3.0	5.0
o-Xylene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Styrene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromoform	U	5.0	ug/L	5	1	5.0	1.2	2.5
Isopropylbenzene	U	5.0	ug/L	5	1	5.0	1.2	2.5
1,1,2,2-Tetrachloroethane	U	5.0	ug/L	5	1	5.0	1.9	2.5
1,3-Dichlorobenzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
1,4-Dichlorobenzene		13.	ug/L	5	1	5.0	1.2	2.5
1,2-Dichlorobenzene		53.	ug/L	5	1	5.0	0.75	2.5
1,2-Dibromo-3-Chloropropane	U	5.0	ug/L	5	1	5.0	2.5	2.5
1,2,4-Trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.8	2.5
bromochloromethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,4-Dioxane	U	500	ug/L	5	100	500	44.	250
1,2,3-trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.4	2.5
1,3,5-Trimethylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,2,4-Trimethylbenzene	U	5.0	ug/L	5	1	5.0	0.95	2.5
4-Chlorotoluene	U	5.0	ug/L	5	1	5.0	0.95	2.5
n-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.2	2.5
n-Propylbenzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
Naphthalene	U	5.0	ug/L	5	1	5.0	1.5	2.5
p-Isopropyltoluene	U	5.0	ug/L	5	1	5.0	1.2	2.5
sec-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
tert-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,2-Dichloroethane-d4		108.	%					
Toluene-d8		109.	%					
P-Bromofluorobenzene		115.	%					
Dibromofluoromethane		102.	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

Data File: \\target_server\GG\chem\gcms-d.i\D042312.b\D9694.D
Report Date: 03-May-2012 15:38

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D042312.b\D9694.D
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Inj Date : 23-APR-2012 18:32 MS Autotune Date: 05-MAR-2010 09:29
Operator : MMM Inst ID: gcms-d.i
Smp Info : SF2129-6DL
Misc Info : WG107276,WG107009-4
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-d.i\D042312.b\D826A91.m
Meth Date : 01-May-2012 15:50 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 18
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: ENEGFS.sub
Target Version: 4.12
Processing Host: T6-0360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

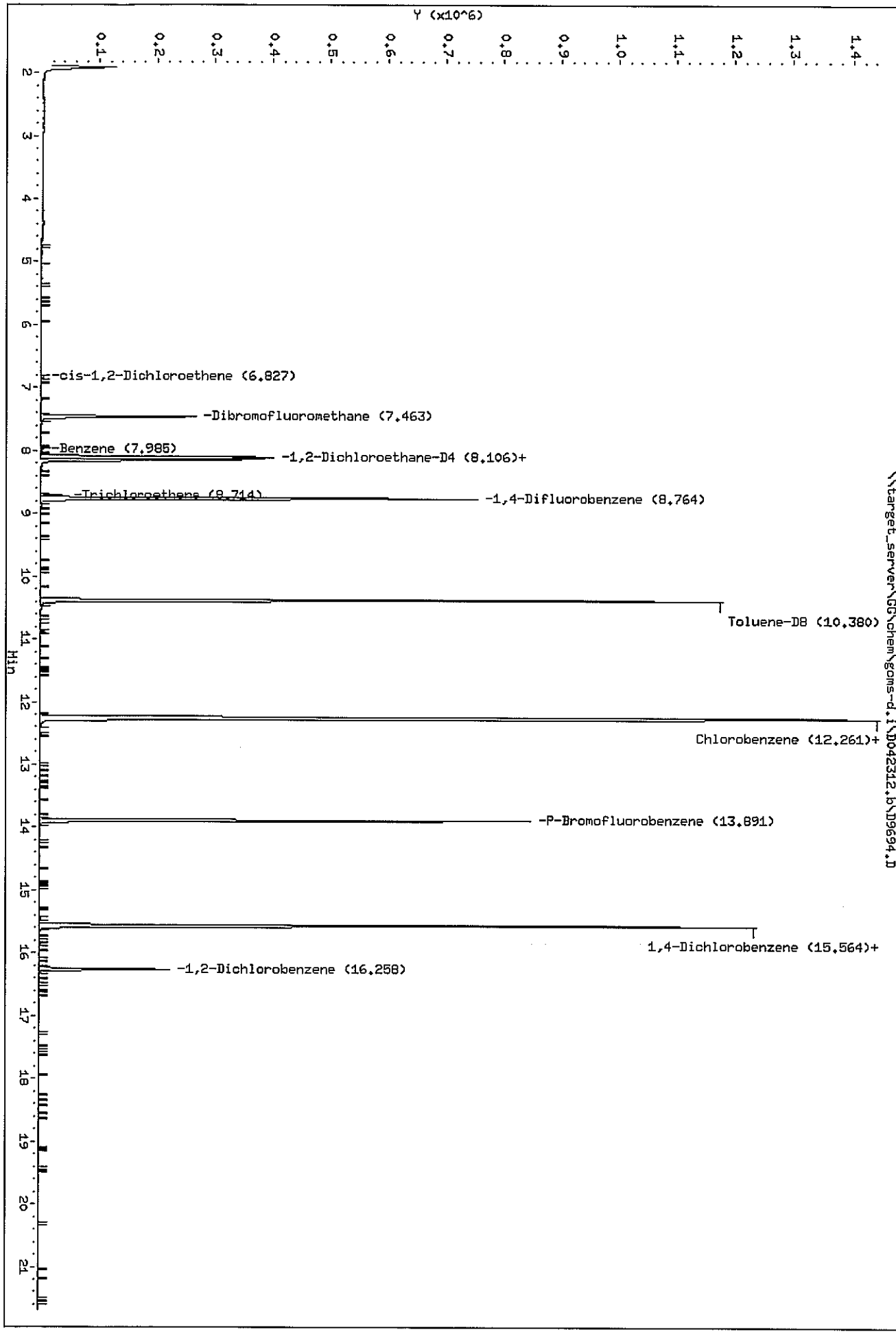
Name	Value	Description
DF	5.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	29 cis-1,2-Dichloroethene	96	6.826	6.828	(0.842)	2721	0.69705	3.5(a)	
	41 Benzene	78	7.984	7.972	(0.911)	4607	0.26491	1.3(aM)	M10
	48 Trichloroethene	95	8.721	8.708	(0.995)	13769	6.38885	31.9(H)	
	67 Chlorobenzene	112	12.267	12.254	(1.002)	617791	53.7787	269	
	92 1,4-Dichlorobenzene	146	15.585	15.579	(1.001)	25835	2.59167	13.0	
	95 1,2-Dichlorobenzene	146	16.257	16.251	(1.045)	91235	10.6706	53.4	
$	37 Dibromofluoromethane	113	7.462	7.457	(0.921)	155623	51.2037	51.2	
$	45 1,2-Dichloroethane-D4	65	8.142	8.135	(1.004)	193554	54.1902	54.2	
$	55 Toluene-D8	98	10.380	10.374	(1.184)	735837	54.6482	54.6	
$	76 P-Bromofluorobenzene	95	13.890	13.878	(1.585)	305996	57.7456	57.7	
*	42 Pentafluorobenzene	168	8.106	8.100	(1.000)	312447	50.0000		
*	49 1,4-Difluorobenzene	114	8.764	8.751	(1.000)	610819	50.0000		
*	66 Chlorobenzene-D5	117	12.246	12.233	(1.000)	601574	50.0000		
*	91 1,4-Dichlorobenzene-D4	152	15.564	15.558	(1.000)	318765	50.0000		

MMM 6-3-12

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
Min
-cis-1,2-Dichloroethene (6.827)
-Dibromofluoromethane (7.463)
-Benzene (7.985)
-1,2-Dichloroethane-D4 (8.106)+
-Trichloroethene (8.714)
-1,4-Difluorobenzene (8.764)
Toluene-D8 (10.380)
Chlorobenzene (12.261)+
-P-Bromofluorobenzene (13.891)
1,4-Dichlorobenzene (15.564)+
-1,2-Dichlorobenzene (16.258)
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Client ID: AOC9-HW17PH0417Z012
Sample Info: SF2129-6DL
Instrument: goms-d.i

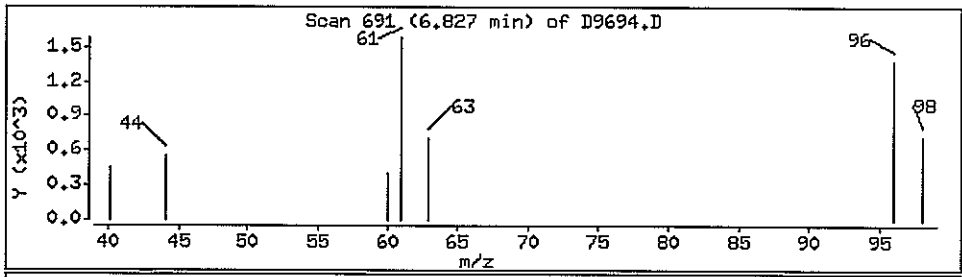
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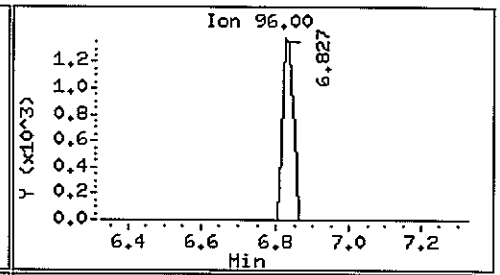
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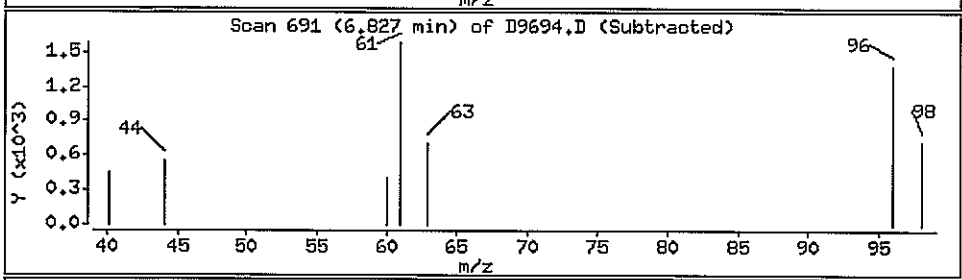
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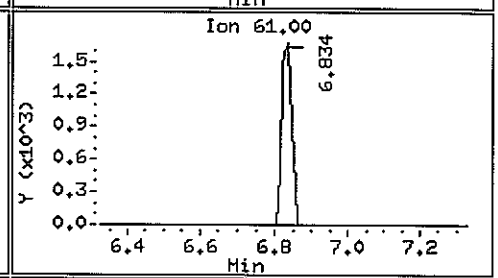
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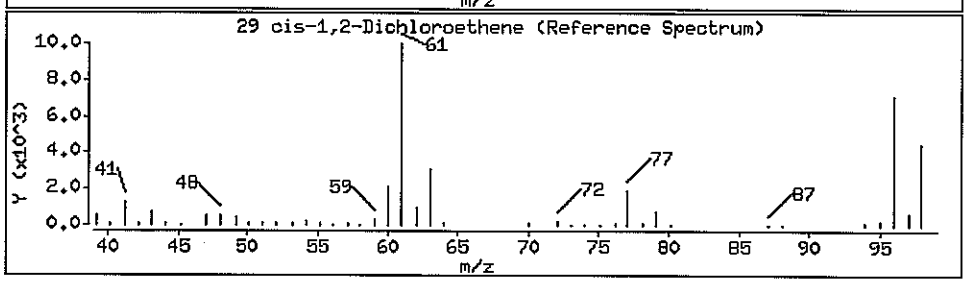
29 cis-1,2-Dichloroethene Concentration: 3.5 ug/l

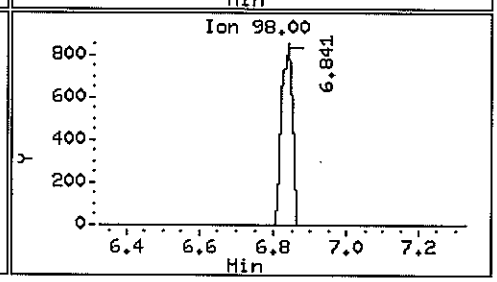




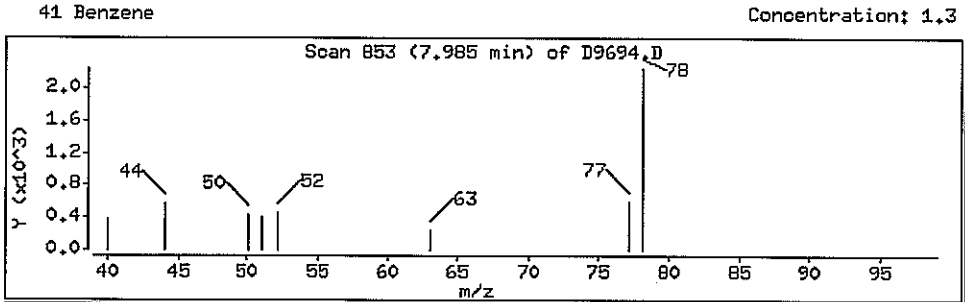


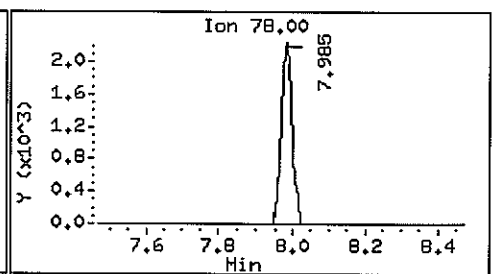


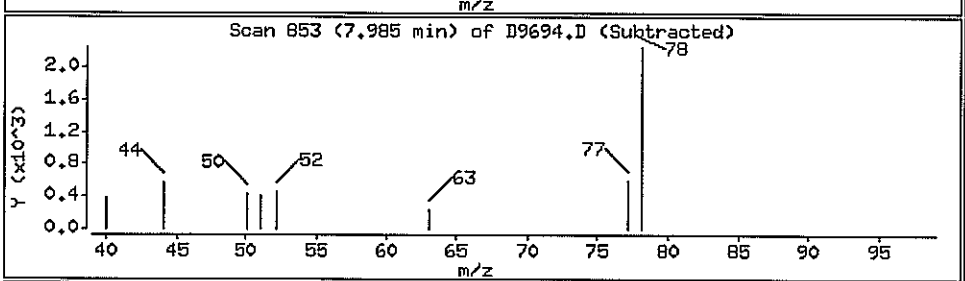


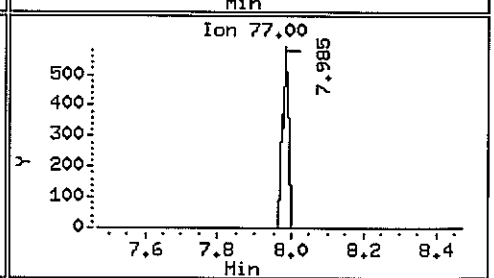


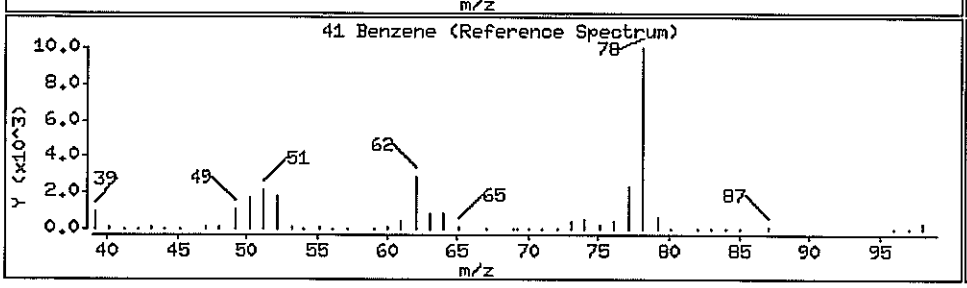
41 Benzene Concentration: 1.3 ug/l

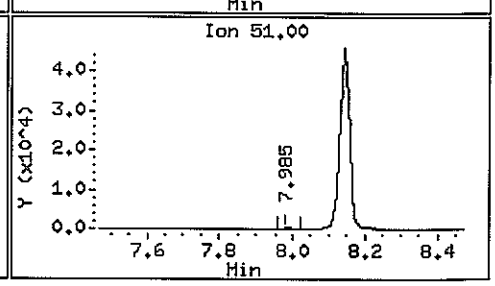






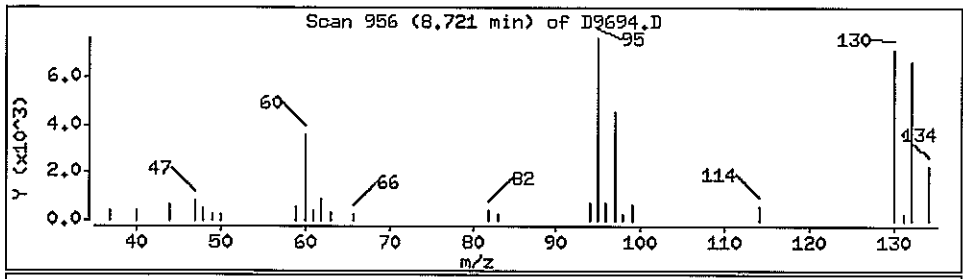


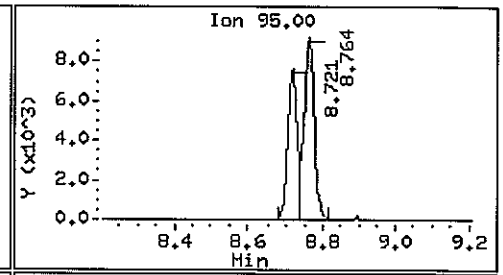


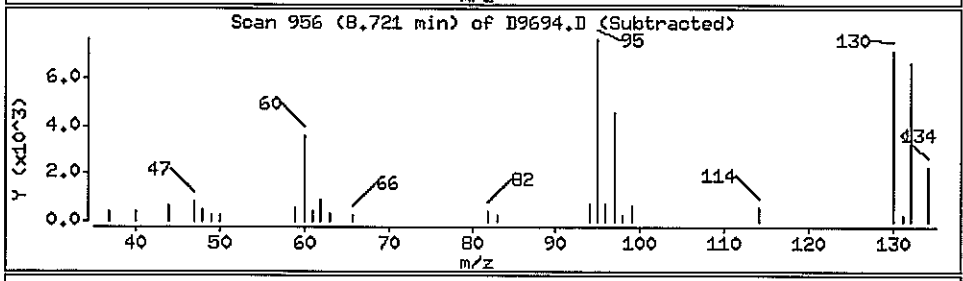


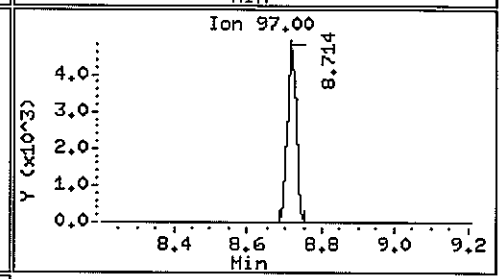
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Date : 23-APR-2012 18:32
Client ID: A0C9-MW17PH04172012 Instrument: gcms-d.i
Sample Info: SF2129-6DL

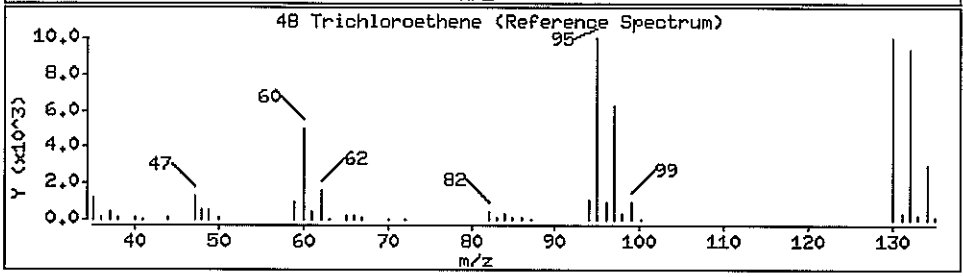
48 Trichloroethene Concentration: 31.9 ug/l



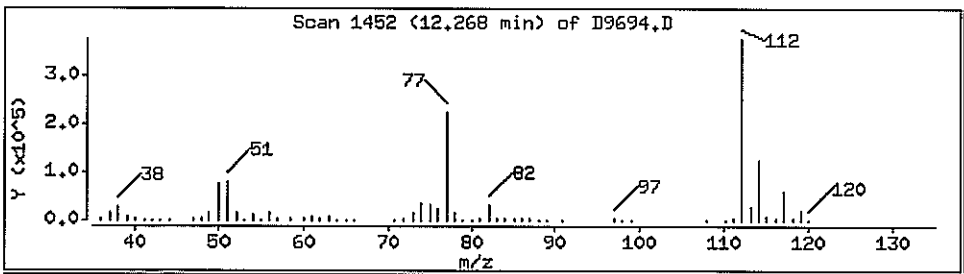


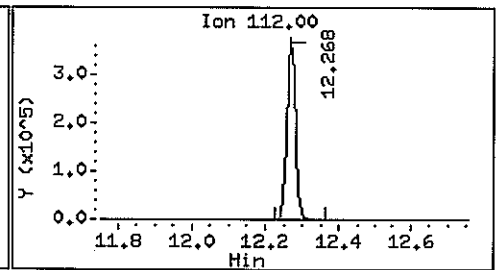


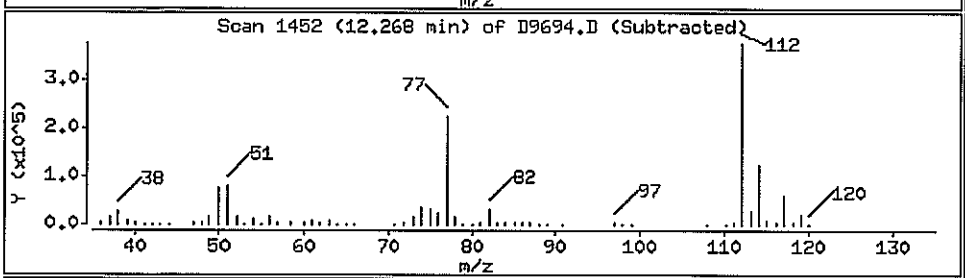


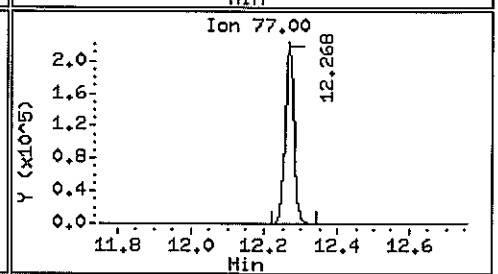


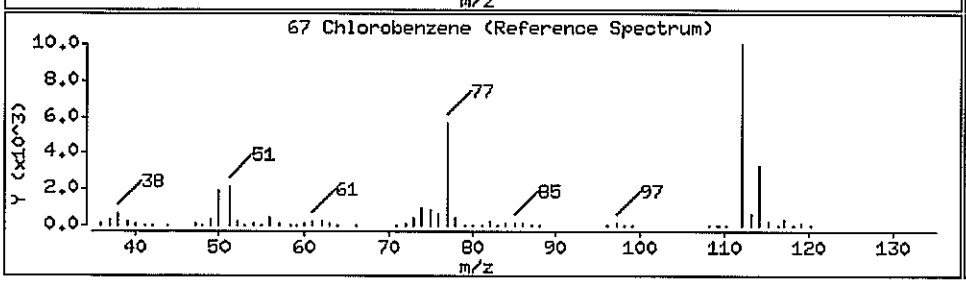
67 Chlorobenzene Concentration: 269 ug/l

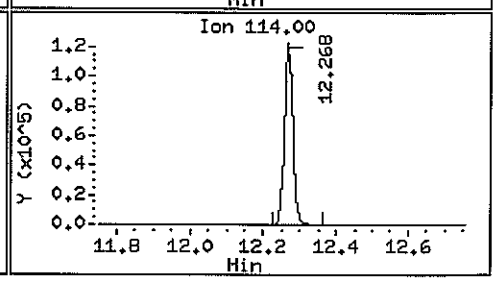












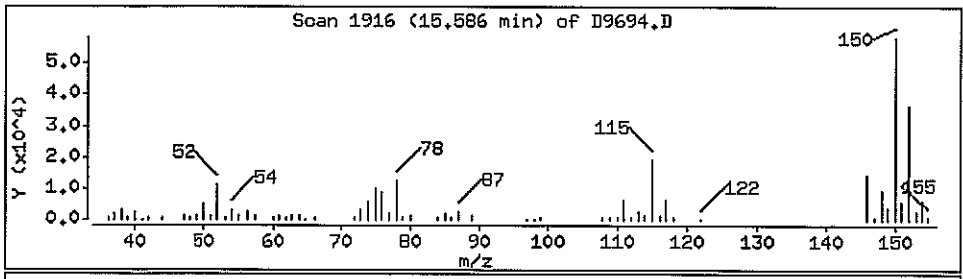
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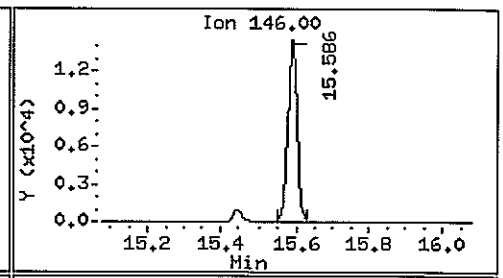
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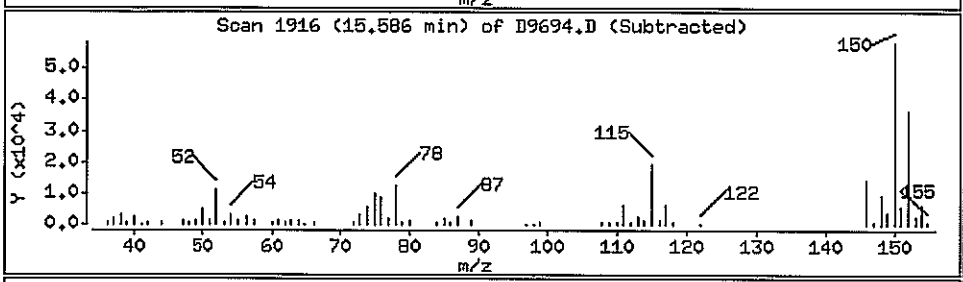
Client ID: A0C9-MW17PM04172012 Instrument: gcms-d.i

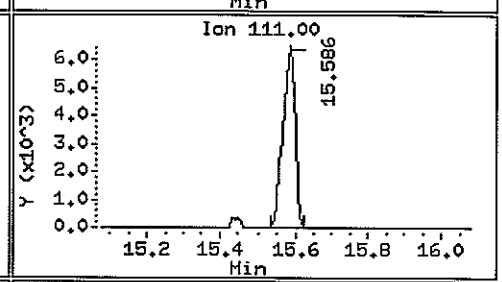
Sample Info: SF2129-6DL

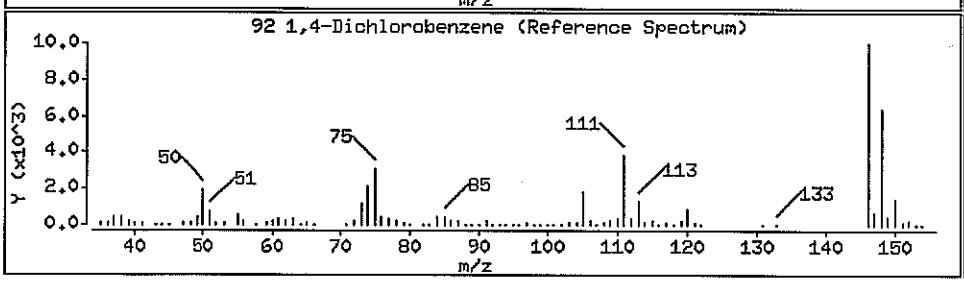
92 1,4-Dichlorobenzene Concentration: 13.0 ug/l

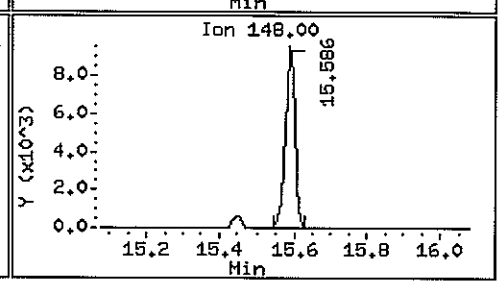




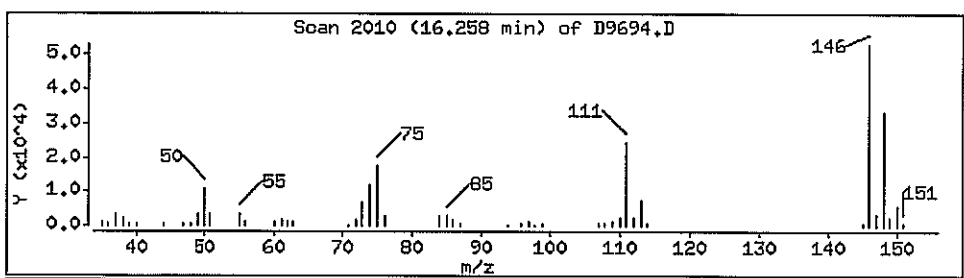


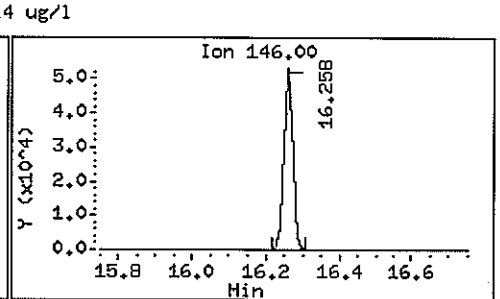


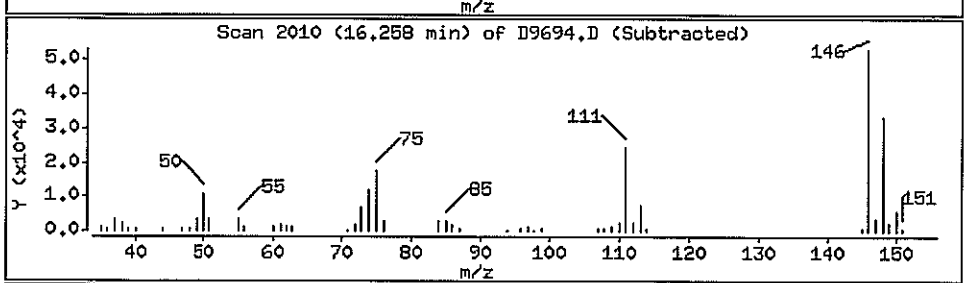


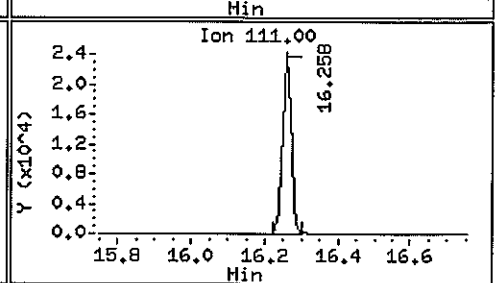


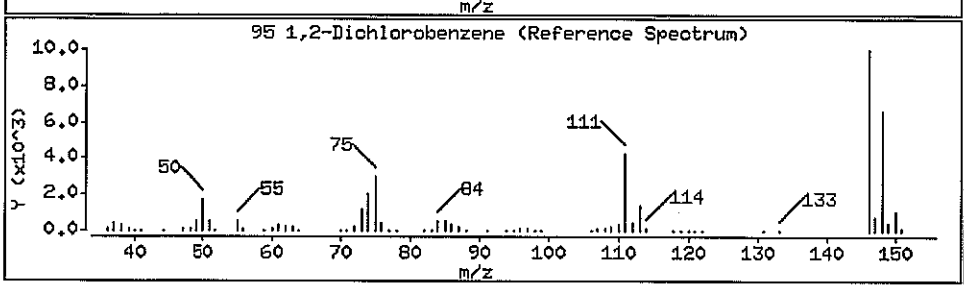
95 1,2-Dichlorobenzene Concentration: 53.4 ug/l

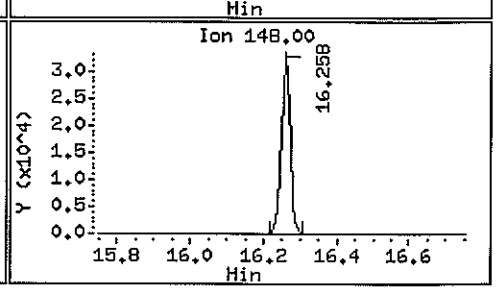








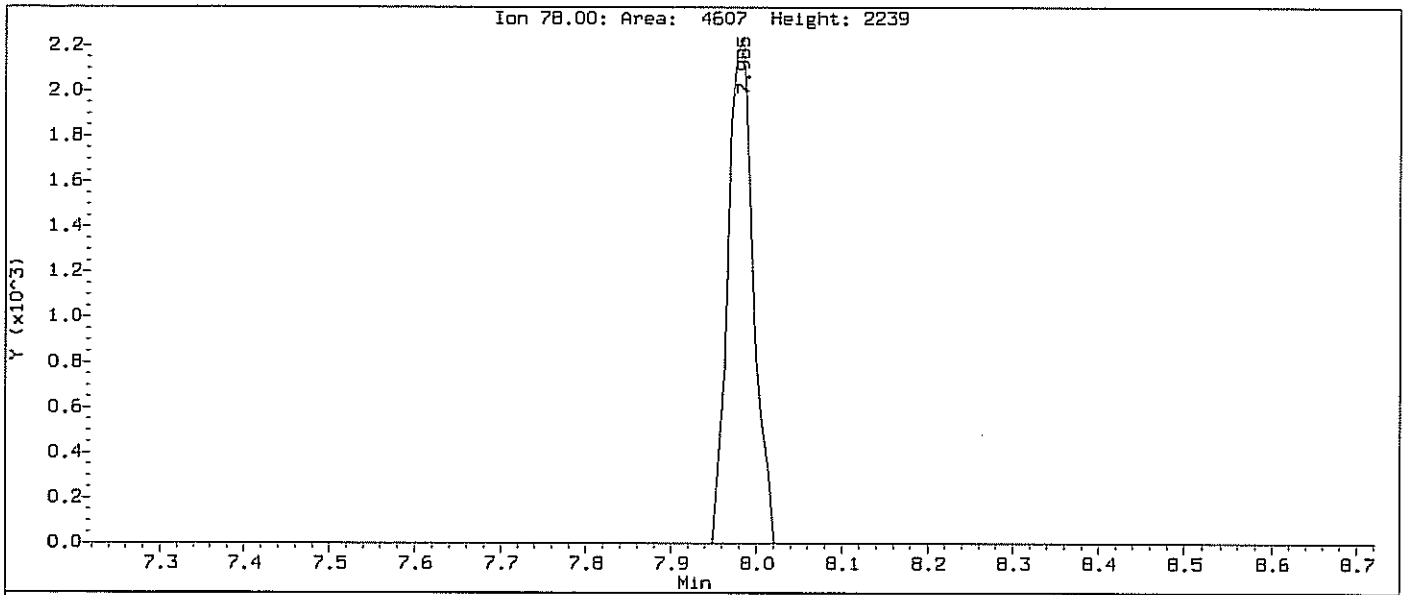


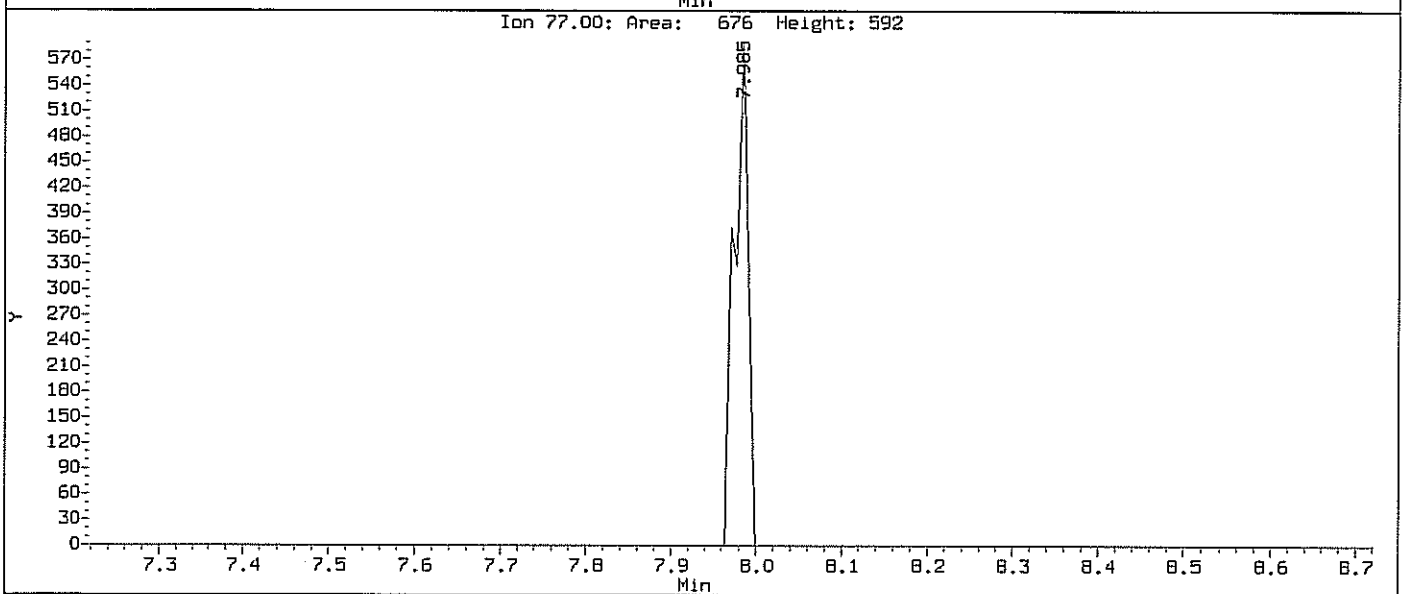


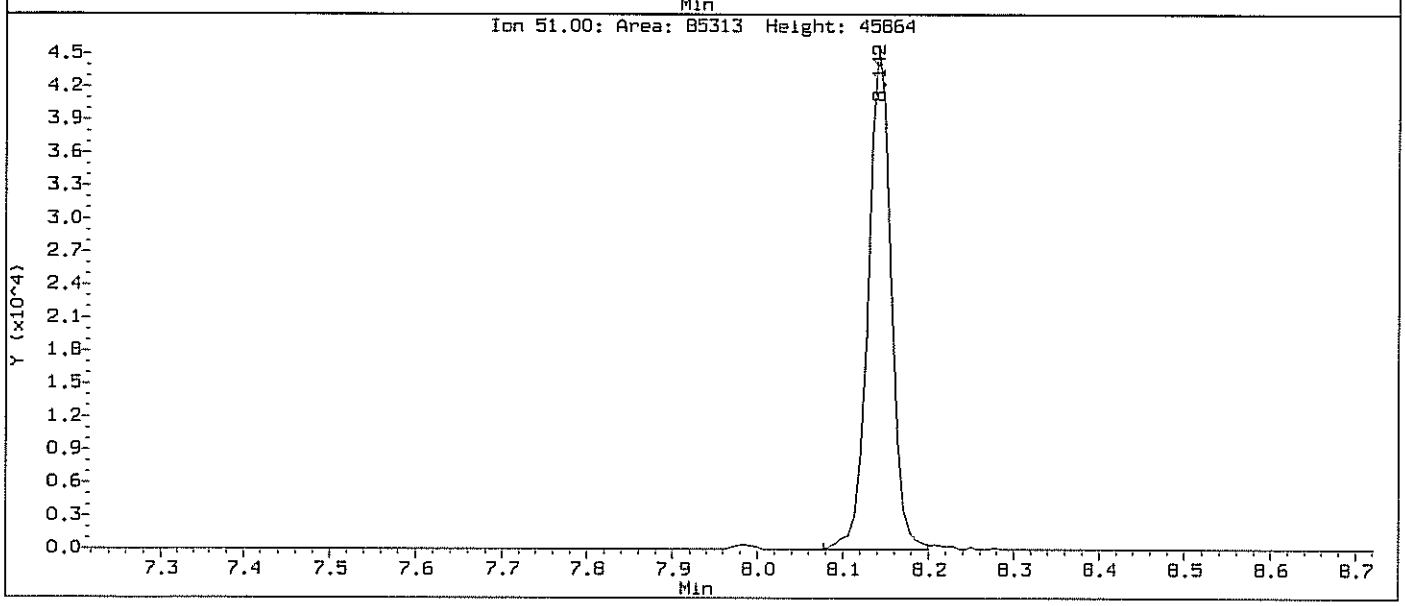
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Injection Date: 23-APR-2012 18:32
Instrument: gcms-d.i
Client Sample ID: AOC9-MW17PM04172012

Compound: Benzene
CAS Number: 71-43-2

Before



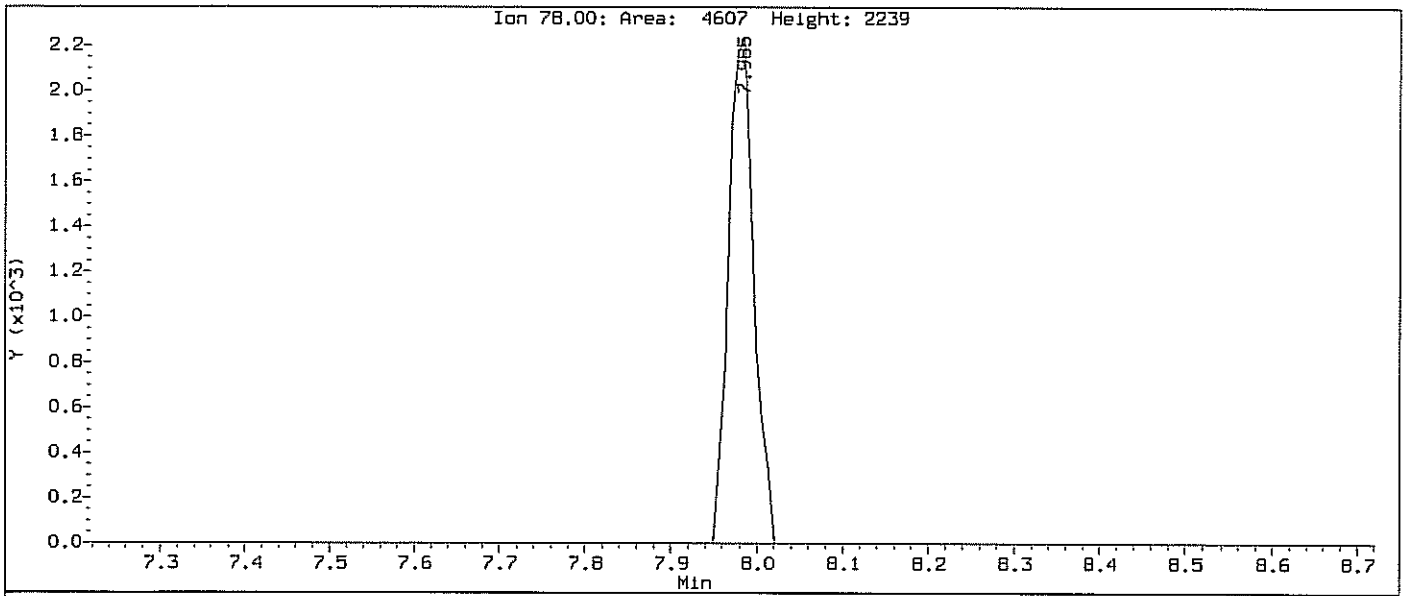


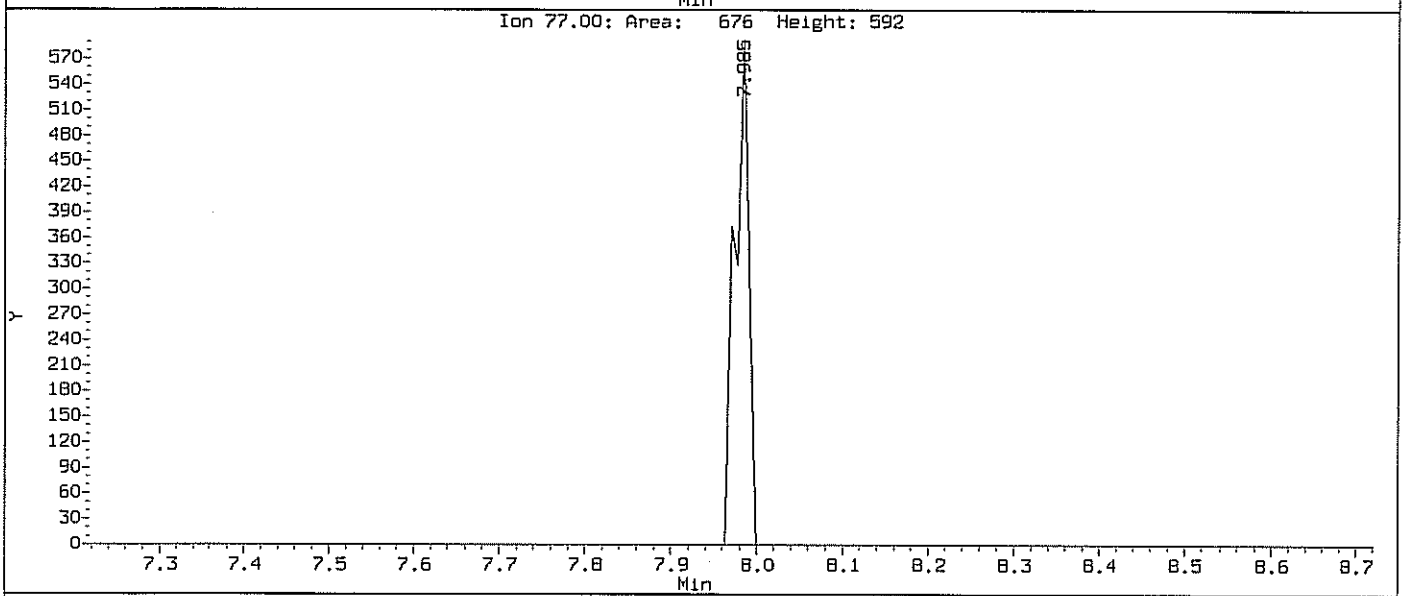


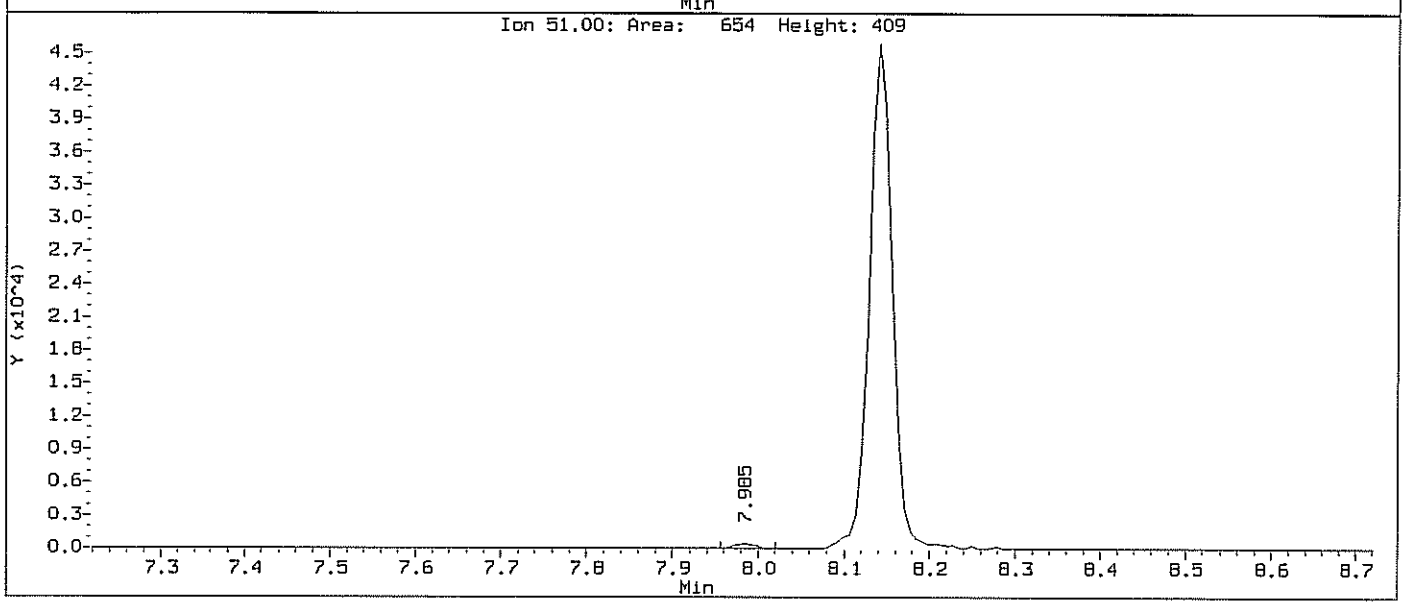
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Injection Date: 23-APR-2012 18:32
Instrument: gcms-d.i
Client Sample ID: AOC9-MW17PM04172012

Compound: Benzene
CAS Number: 71-43-2

After







Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-7
Client ID: MW17/DPM04172012
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9728.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	J	1.3	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		3.8	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene		1.6	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		19.	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene		3.8	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-7
Client ID: MW17/DPM04172012
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9728.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	E	300	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		15.	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		64.	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		99.0	%					
Toluene-d8		108.	%					
P-Bromofluorobenzene		116.	%					
Dibromofluoromethane		98.8	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

Data File: \\target_server\GG\chem\gcms-d.i\D042412.b\D9728.D
Report Date: 03-May-2012 09:43

Katahdin Analytical Services

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Inj Date : 24-APR-2012 17:49 MS Autotune Date: 05-MAR-2010 09:29
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Processing Host: T6-0360

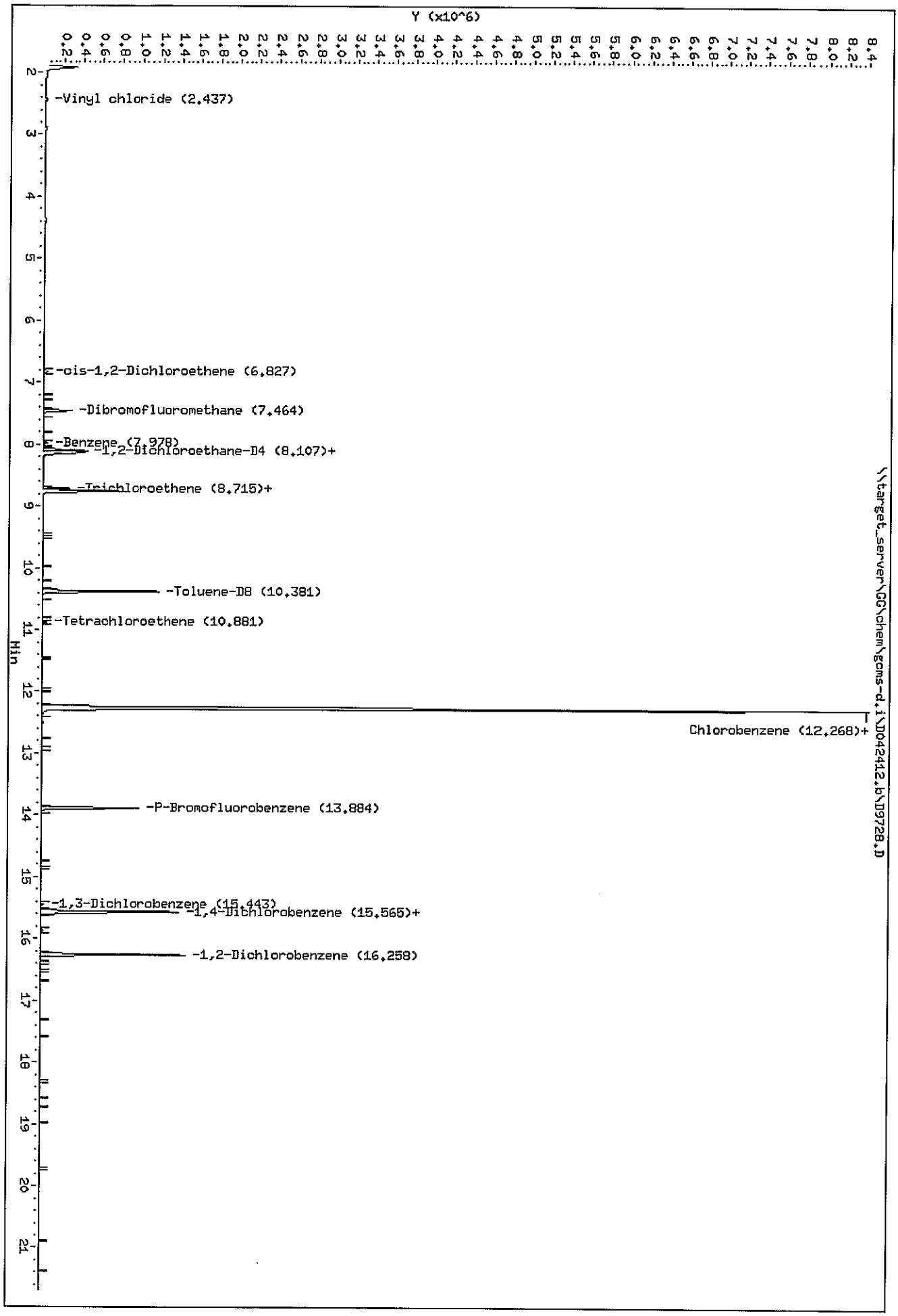
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

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
3	Vinyl chloride	62	2.436	2.437	(0.301)	10548	1.29020	1.3(a)	
29	cis-1,2-Dichloroethene	96	6.827	6.828	(0.842)	16767	3.77050	3.8	
41	Benzene	78	7.978	7.972	(0.911)	31856	1.64712	1.6	
48	Trichloroethene	95	8.714	8.708	(0.995)	82481	18.7111	18.7	
59	Tetrachloroethene	164	10.881	10.882	(0.888)	7867	3.81163	3.8	
67	Chlorobenzene	112	12.268	12.254	(1.002)	4221864	303.569	304(A)	
90	1,3-Dichlorobenzene	146	15.443	15.436	(0.992)	10784	1.02698	1.0	
92	1,4-Dichlorobenzene	146	15.586	15.579	(1.001)	170416	15.1218	15.1	
95	1,2-Dichlorobenzene	146	16.258	16.251	(1.045)	618779	64.0152	64.0	
$ 37	Dibromofluoromethane	113	7.463	7.457	(0.921)	171125	49.4254	49.4	
$ 45	1,2-Dichloroethane-D4	65	8.142	8.135	(1.004)	201484	49.5186	49.5	
$ 55	Toluene-D8	98	10.380	10.374	(1.185)	809623	54.0667	54.1	
$ 76	P-Bromofluorobenzene	95	13.884	13.878	(1.585)	340934	57.8530	57.8	
* 42	Pentafluorobenzene	168	8.107	8.100	(1.000)	355932	50.0000		
* 49	1,4-Difluorobenzene	114	8.757	8.751	(1.000)	679297	50.0000		
* 66	Chlorobenzene-D5	117	12.246	12.233	(1.000)	733601	50.0000		
* 91	1,4-Dichlorobenzene-D4	152	15.564	15.558	(1.000)	360371	50.0000		

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.



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Client ID: MW17/DPH04172012
Sample Info: SF2129-7

Instrument: goms-d.i

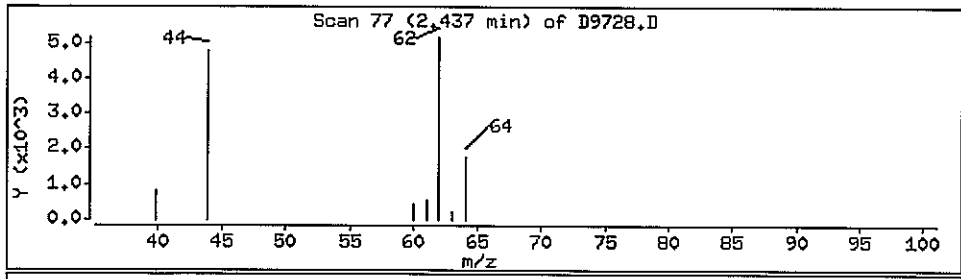
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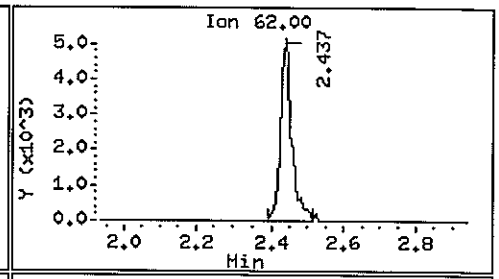
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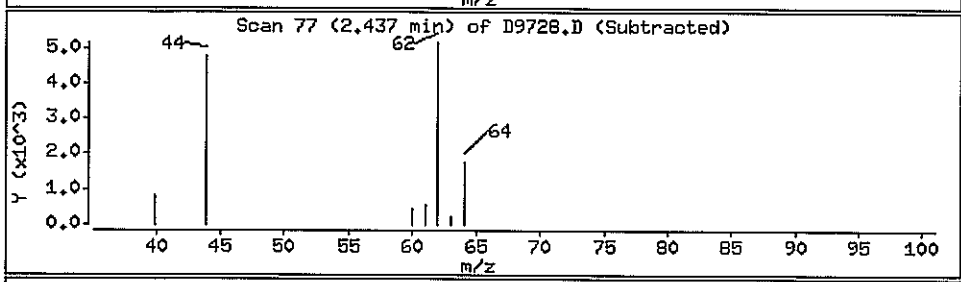
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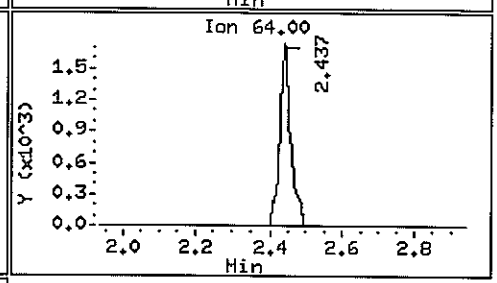
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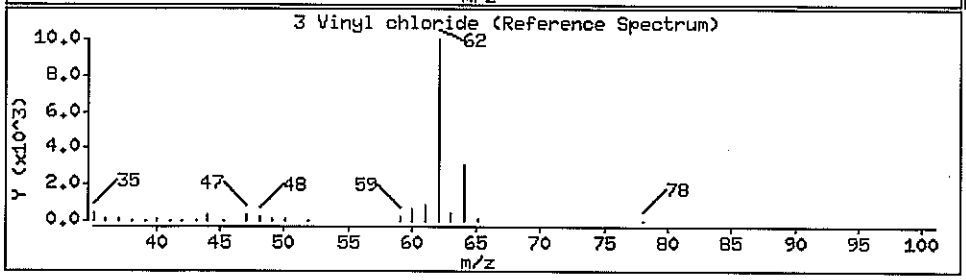
3 Vinyl chloride Concentration: 1.3 ug/l



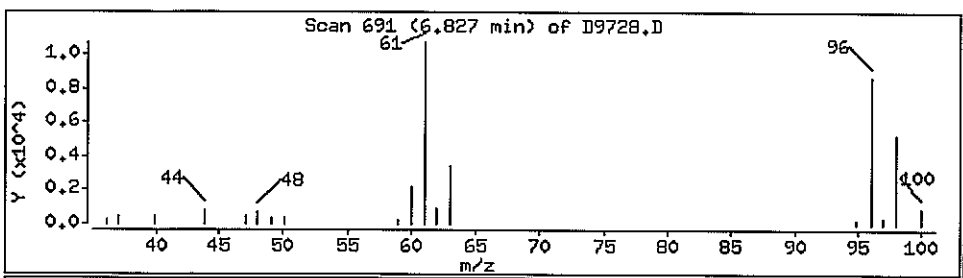


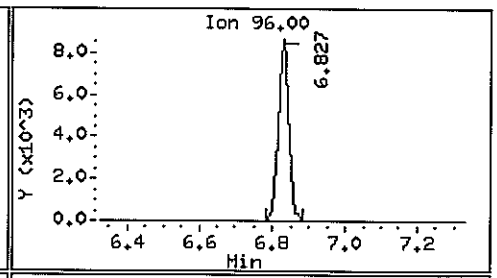


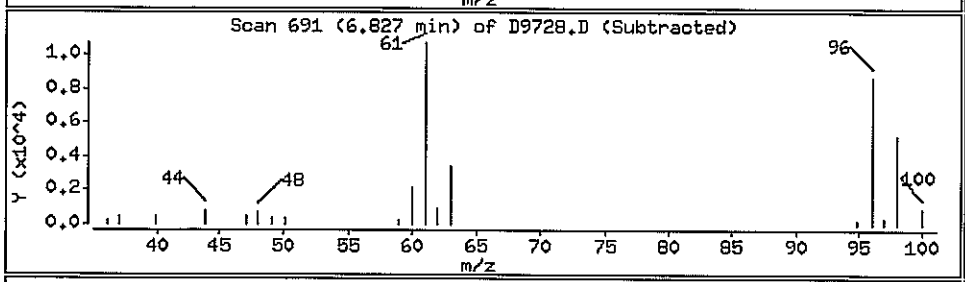


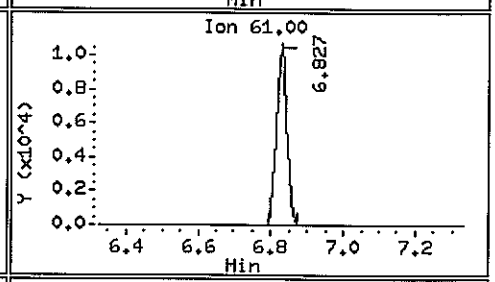


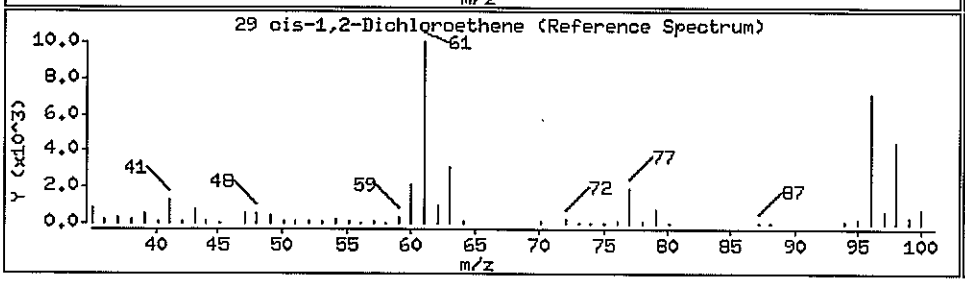
29 cis-1,2-Dichloroethene Concentration: 3.8 ug/l

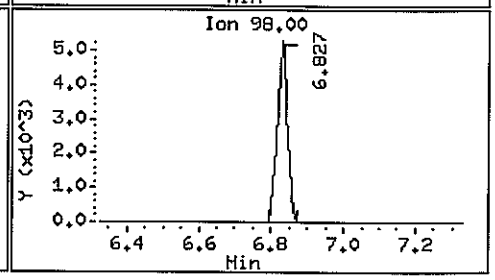






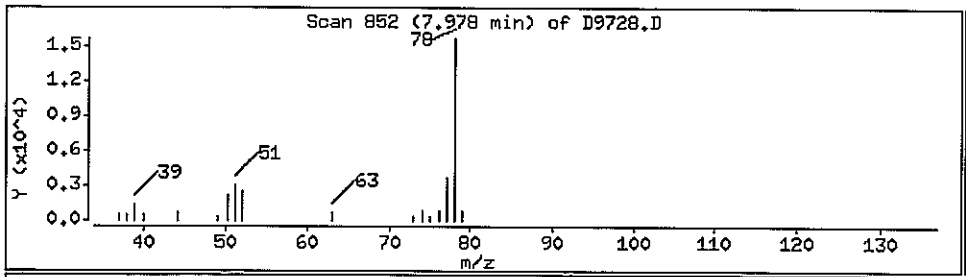


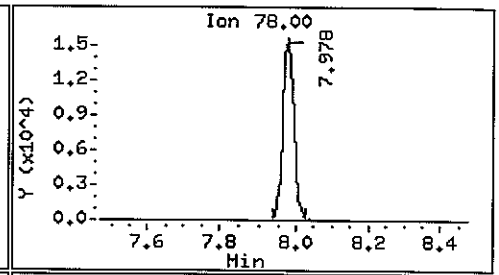


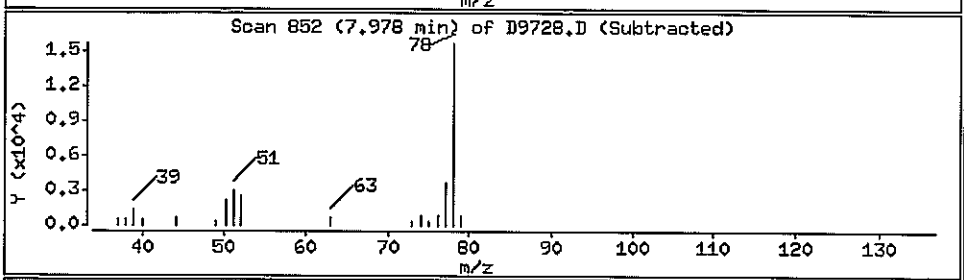


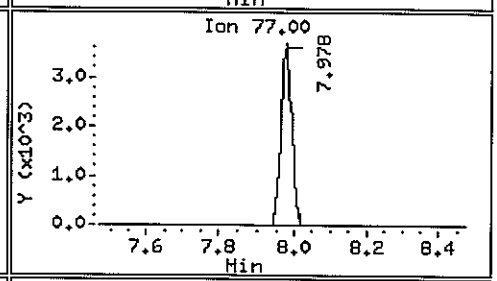
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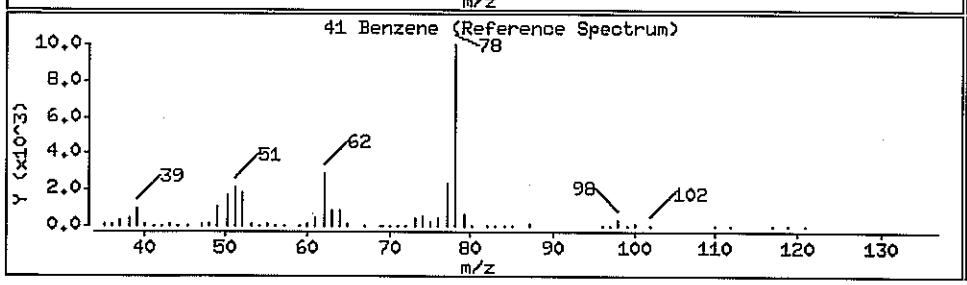
41 Benzene Concentration: 1.6 ug/l

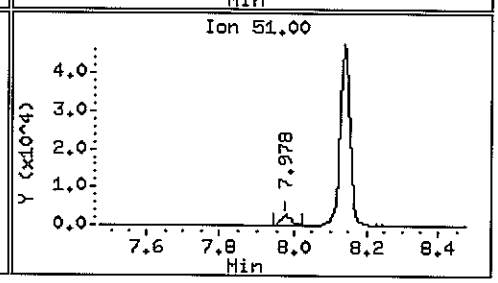




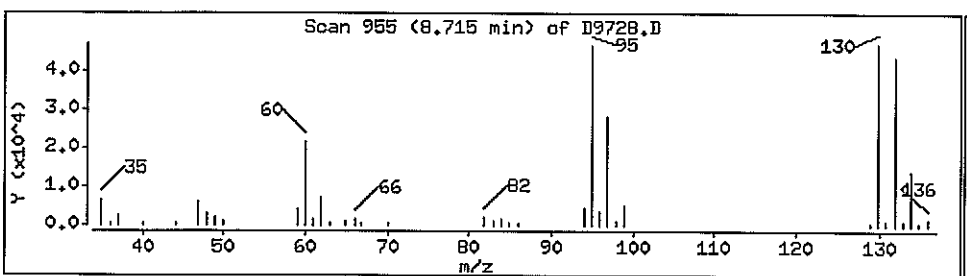


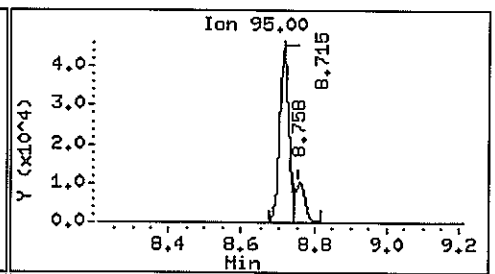


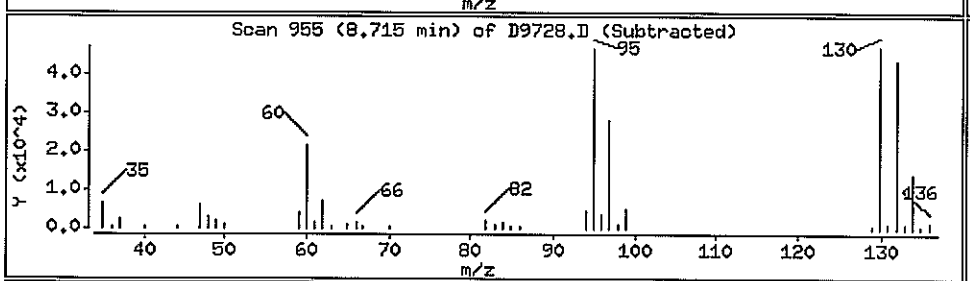


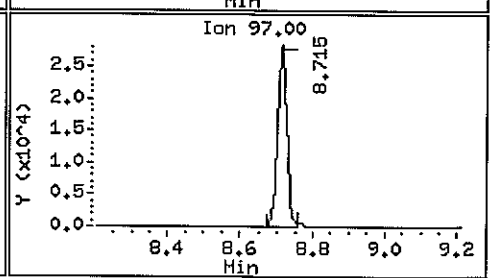


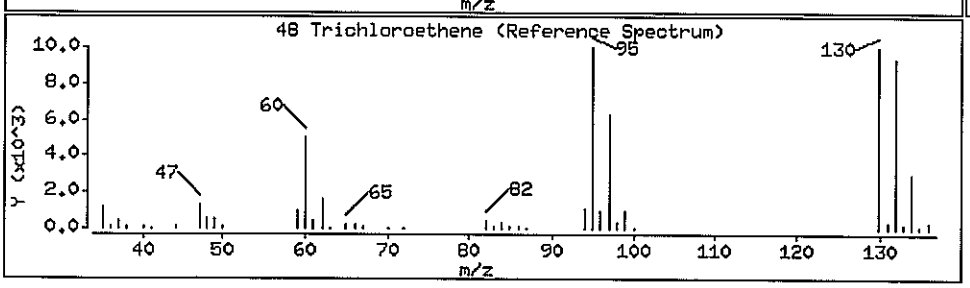
48 Trichloroethene Concentration: 18.7 ug/l





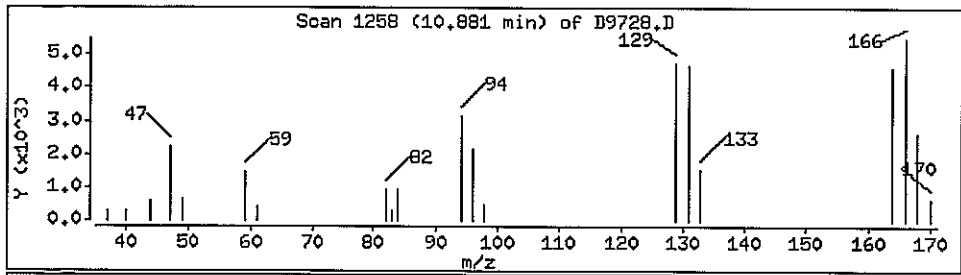


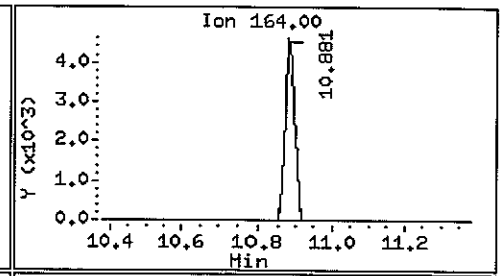


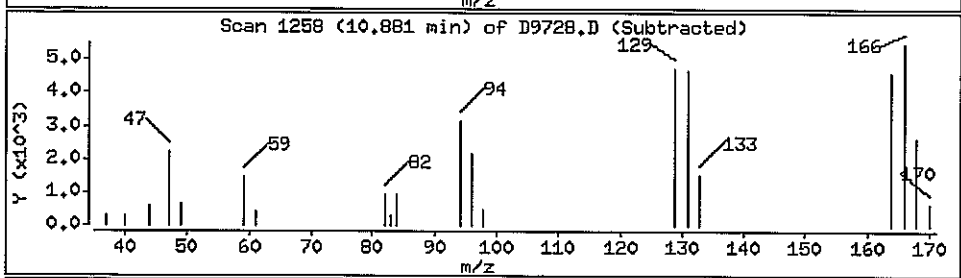


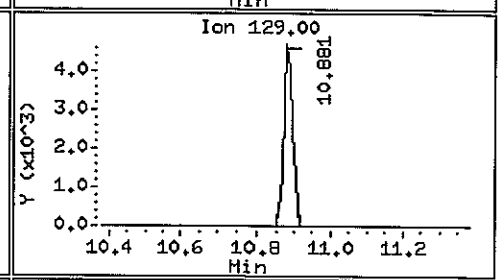
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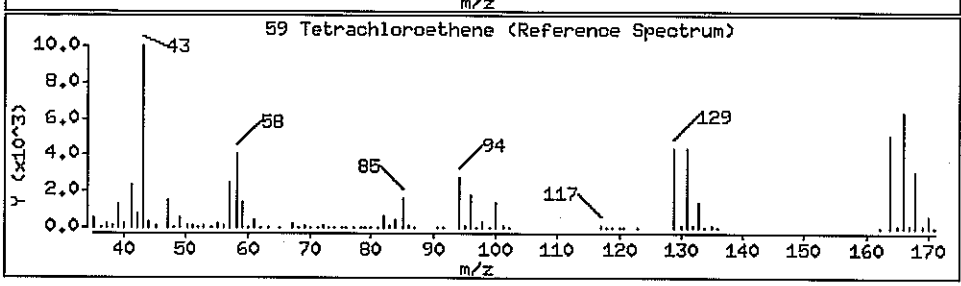
59 Tetrachloroethene Concentration: 3.8 ug/l

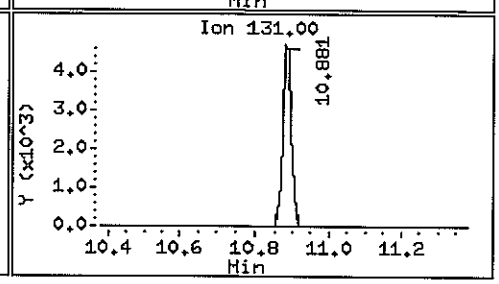




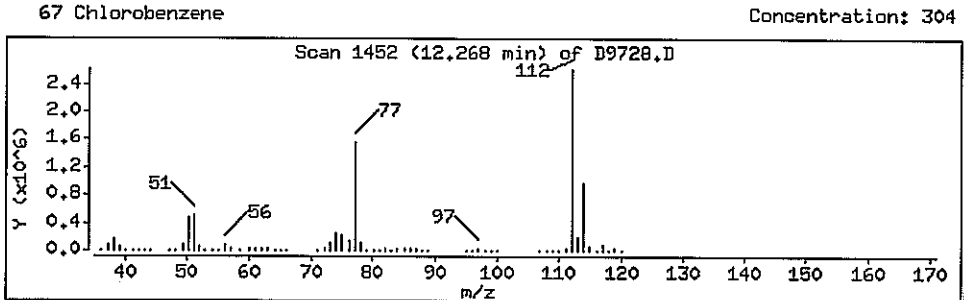


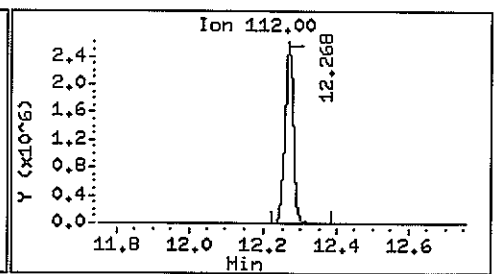


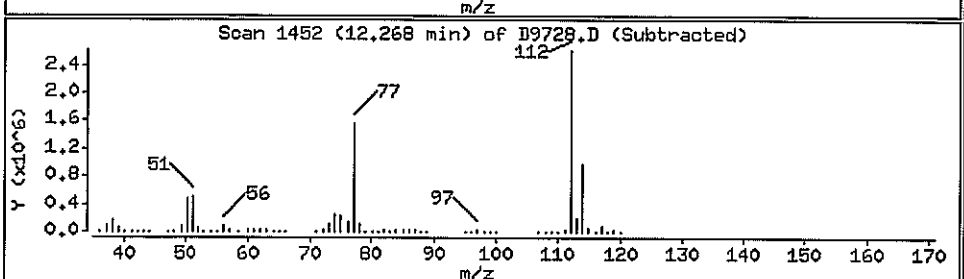


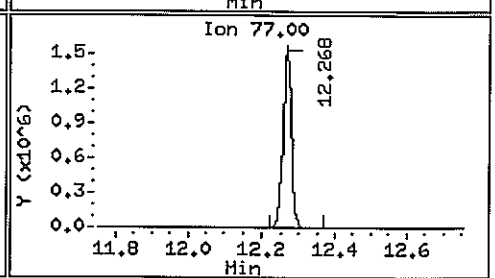


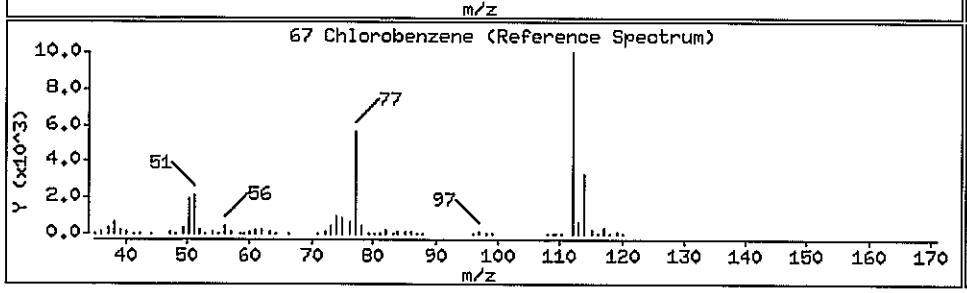
67 Chlorobenzene Concentration: 304 ug/l

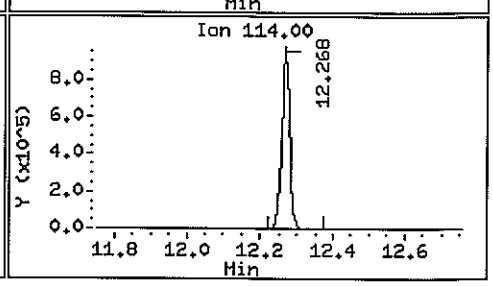












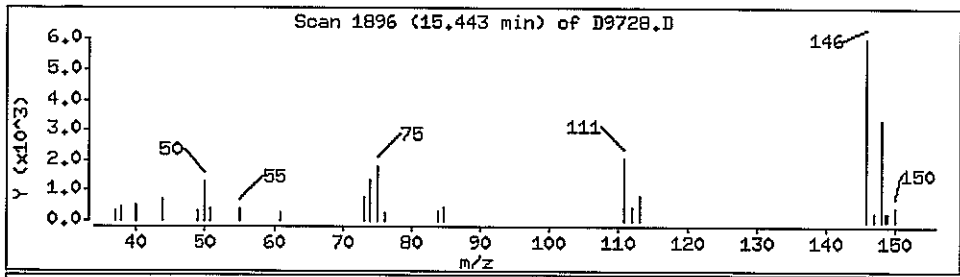
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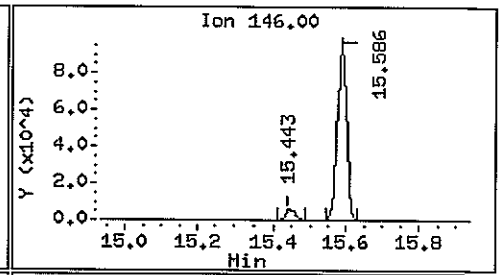
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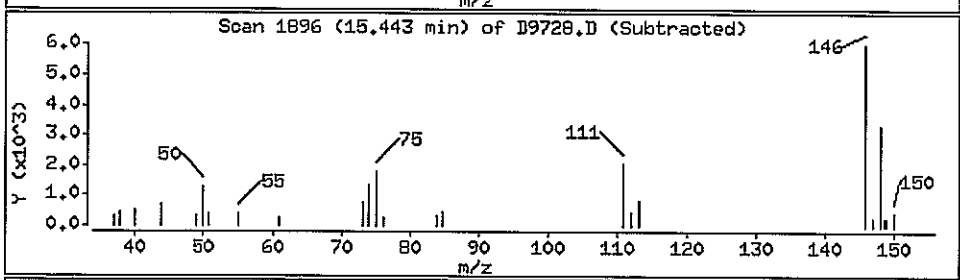
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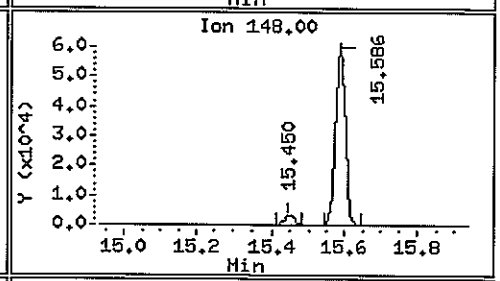
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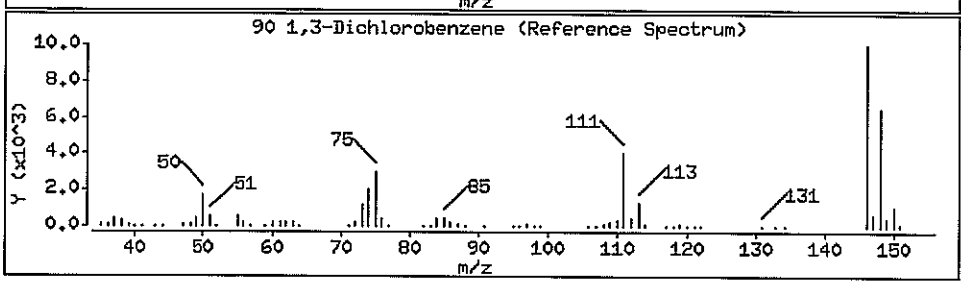
90 1,3-Dichlorobenzene Concentration: 1.0 ug/l

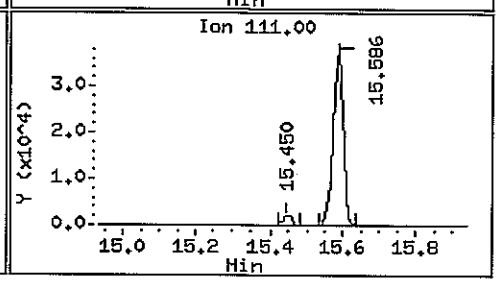




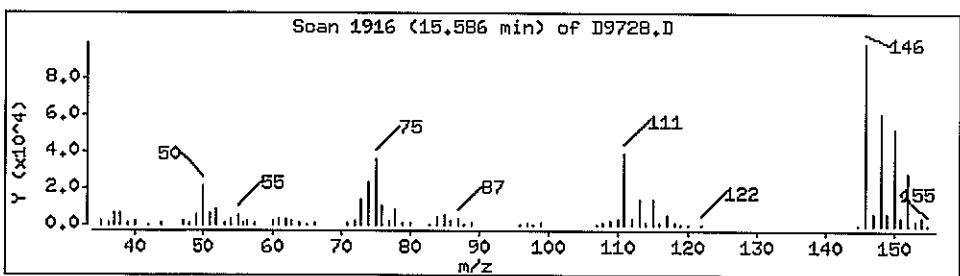


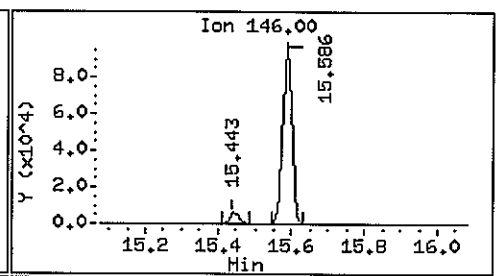


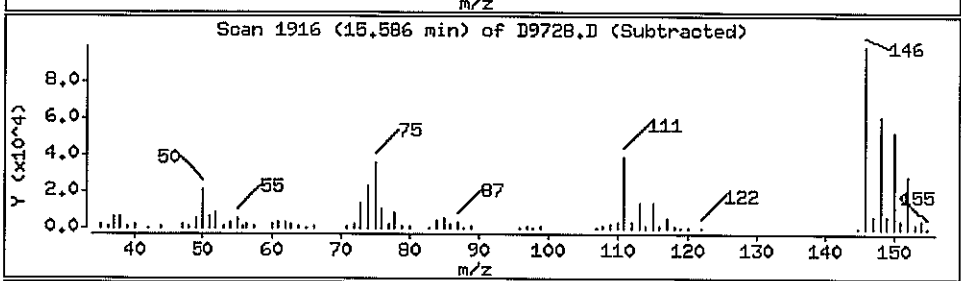


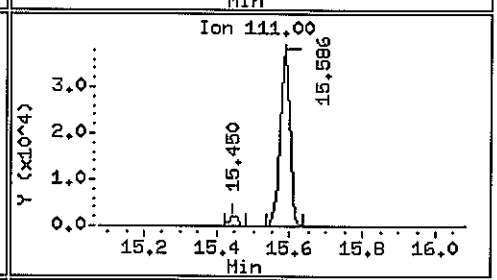


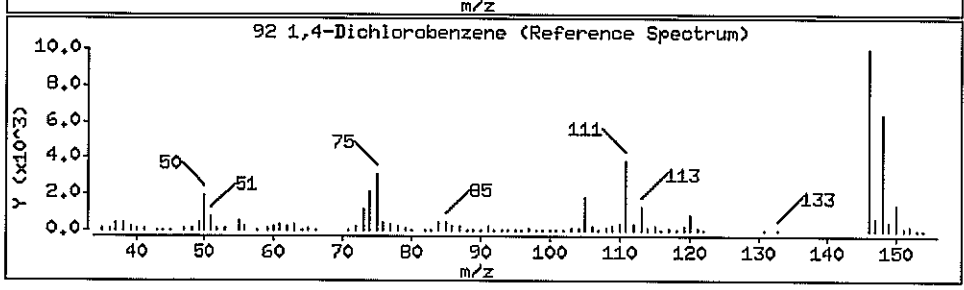
92 1,4-Dichlorobenzene Concentration: 15.1 ug/l

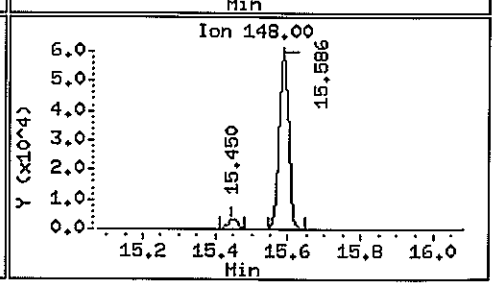












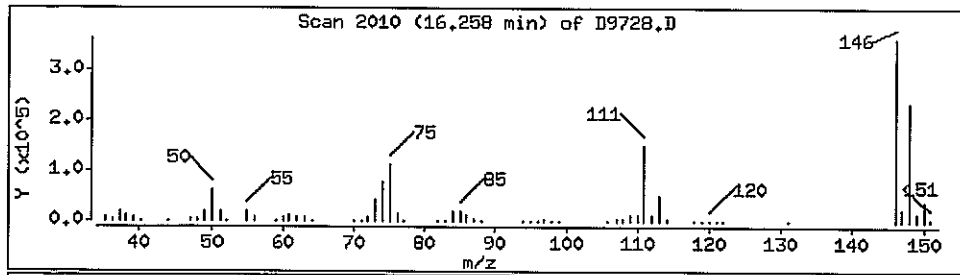
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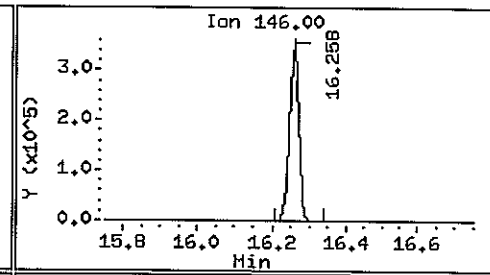
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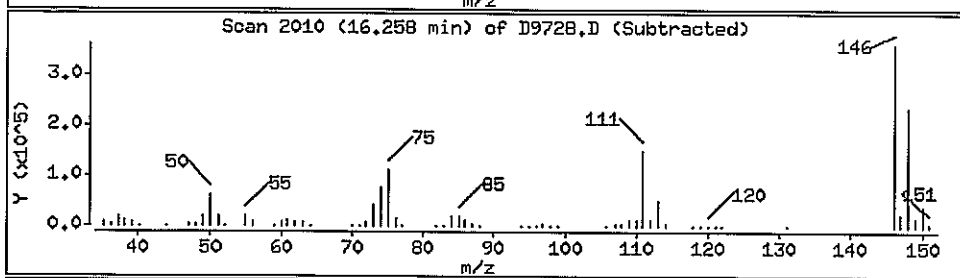
Client ID: MW17/DPM04172012 Instrument: gcms-d.i

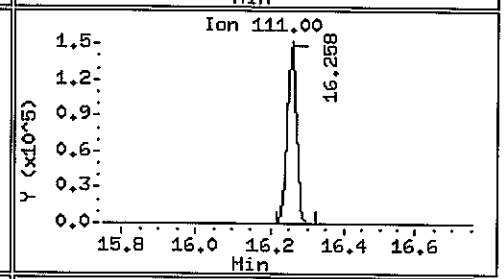
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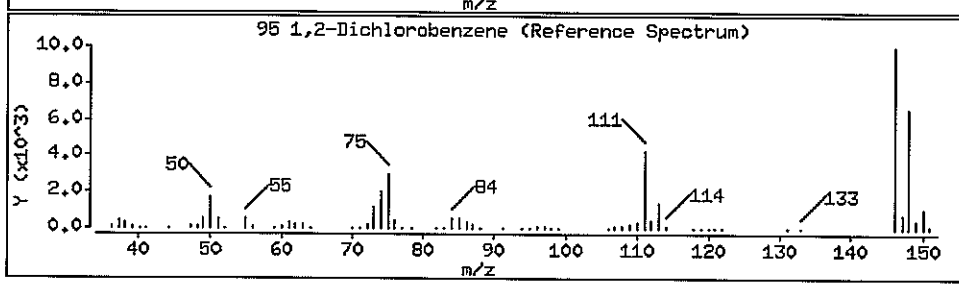
95 1,2-Dichlorobenzene Concentration: 64.0 ug/l

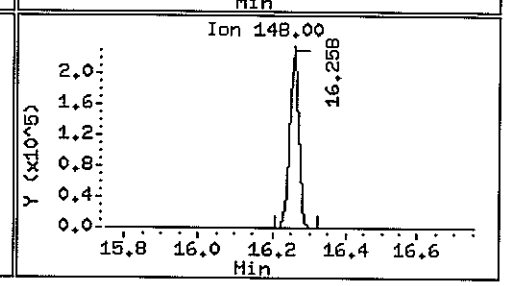












Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-7DL
Client ID: MW17/DPM04172012
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9695.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	10.	ug/L	5	2	10.	1.2	5.0
Chloromethane	U	10.	ug/L	5	2	10.	1.8	5.0
Vinyl Chloride	U	10.	ug/L	5	2	10.	1.2	5.0
Bromomethane	U	10.	ug/L	5	2	10.	2.4	5.0
Chloroethane	U	10.	ug/L	5	2	10.	2.8	5.0
Trichlorofluoromethane	U	10.	ug/L	5	2	10.	1.2	5.0
1,1-Dichloroethene	U	5.0	ug/L	5	1	5.0	1.8	2.5
Freon-113	U	5.0	ug/L	5	1	5.0	1.6	2.5
Acetone	U	25.	ug/L	5	5	25.	11.	12.
Carbon Disulfide	U	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl Acetate	U	5.0	ug/L	5	1	5.0	2.6	3.8
Methylene Chloride	U	25.	ug/L	5	5	25.	5.6	12.
trans-1,2-Dichloroethene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl tert-butyl Ether	U	5.0	ug/L	5	1	5.0	1.8	2.5
1,1-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
cis-1,2-Dichloroethene	J	3.2	ug/L	5	1	5.0	1.0	2.5
2-Butanone	U	25.	ug/L	5	5	25.	6.6	12.
Chloroform	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,1,1-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Cyclohexane	U	5.0	ug/L	5	1	5.0	1.6	2.5
Carbon Tetrachloride	U	5.0	ug/L	5	1	5.0	1.1	2.5
Benzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
1,2-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Trichloroethene		30.	ug/L	5	1	5.0	1.4	2.5
Methylcyclohexane	U	5.0	ug/L	5	1	5.0	1.5	2.5
1,2-Dichloropropane	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromodichloromethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
cis-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	0.95	2.5
4-Methyl-2-Pentanone	U	25.	ug/L	5	5	25.	6.6	12.
Toluene	U	5.0	ug/L	5	1	5.0	1.4	2.5
trans-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,1,2-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
Tetrachloroethene	U	5.0	ug/L	5	1	5.0	2.0	2.5
2-Hexanone	U	25.	ug/L	5	5	25.	8.5	12.
Dibromochloromethane	U	5.0	ug/L	5	1	5.0	1.5	2.5

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-7DL
Client ID: MW17/DPM04172012
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9695.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	5.0	ug/L	5	1	5.0	1.1	2.5
Chlorobenzene		270	ug/L	5	1	5.0	1.1	2.5
Ethylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
M+P-Xylenes	U	10.	ug/L	5	2	10.	3.0	5.0
o-Xylene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Styrene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromoform	U	5.0	ug/L	5	1	5.0	1.2	2.5
Isopropylbenzene	U	5.0	ug/L	5	1	5.0	1.2	2.5
1,1,2,2-Tetrachloroethane	U	5.0	ug/L	5	1	5.0	1.9	2.5
1,3-Dichlorobenzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
1,4-Dichlorobenzene		14.	ug/L	5	1	5.0	1.2	2.5
1,2-Dichlorobenzene		51.	ug/L	5	1	5.0	0.75	2.5
1,2-Dibromo-3-Chloropropane	U	5.0	ug/L	5	1	5.0	2.5	2.5
1,2,4-Trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.8	2.5
bromochloromethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,4-Dioxane	U	500	ug/L	5	100	500	44.	250
1,2,3-trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.4	2.5
1,3,5-Trimethylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,2,4-Trimethylbenzene	U	5.0	ug/L	5	1	5.0	0.95	2.5
4-Chlorotoluene	U	5.0	ug/L	5	1	5.0	0.95	2.5
n-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.2	2.5
n-Propylbenzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
Naphthalene	U	5.0	ug/L	5	1	5.0	1.5	2.5
p-Isopropyltoluene	U	5.0	ug/L	5	1	5.0	1.2	2.5
sec-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
tert-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,2-Dichloroethane-d4		108.	%					
Toluene-d8		109.	%					
P-Bromofluorobenzene		114.	%					
Dibromofluoromethane		104.	%					

600 Technology Way
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Tel:(207) 874-2400 Fax:(207) 775-4029

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Report Date: 03-May-2012 15:39

Katahdin Analytical Services

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Operator : MMM Inst ID: gcms-d.i
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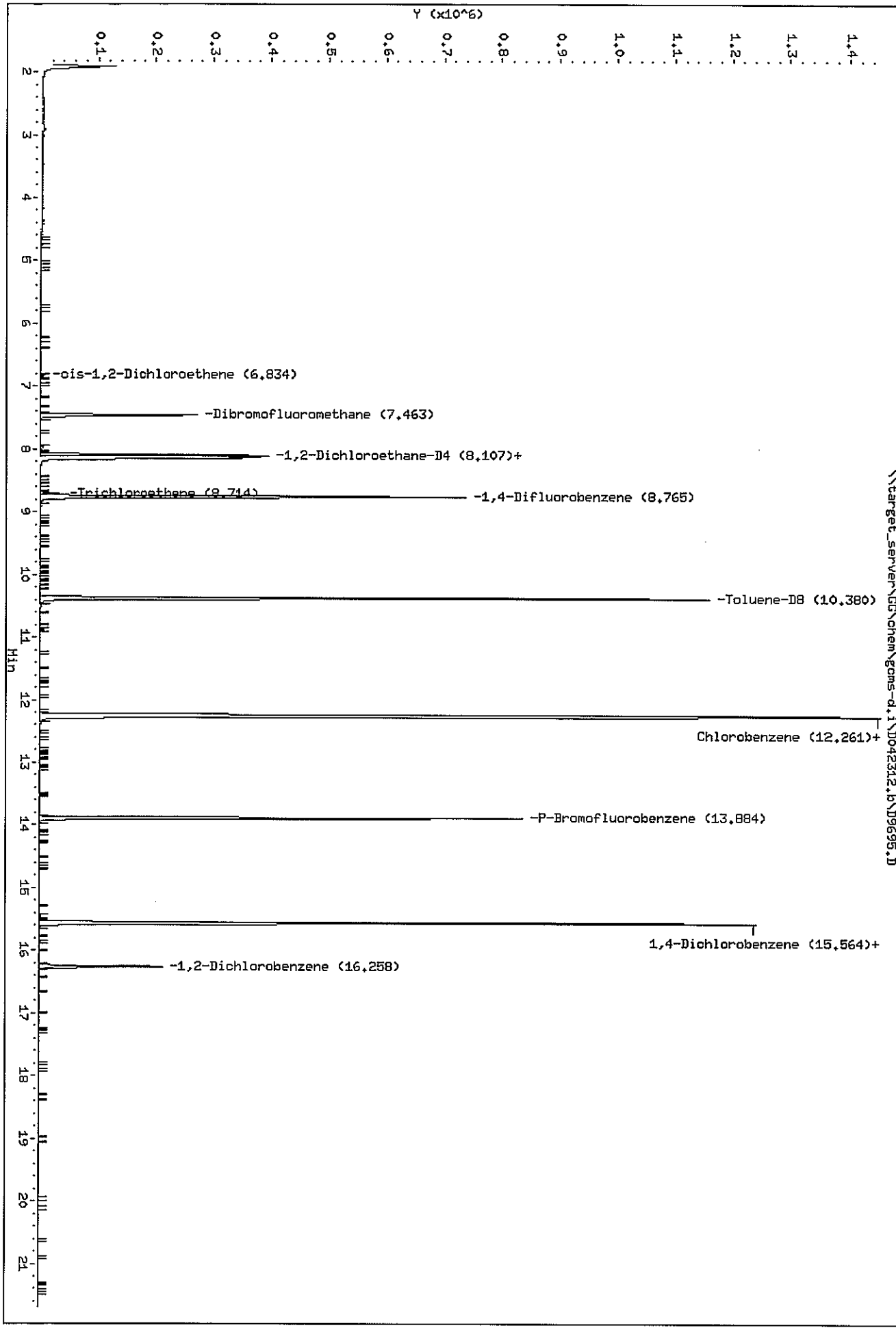
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	5.000	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
29	cis-1,2-Dichloroethene	96	6.833	6.828	(0.843)	2450	0.63965	3.2(a)	
48	Trichloroethene	95	8.714	8.708	(0.994)	11991	6.05606	30.3(H)	
67	Chlorobenzene	112	12.268	12.254	(1.002)	615915	53.5103	268	
92	1,4-Dichlorobenzene	146	15.585	15.579	(1.001)	27562	2.82514	14.1	
95	1,2-Dichlorobenzene	146	16.257	16.251	(1.045)	84910	10.1471	50.7	
$ 37	Dibromofluoromethane	113	7.463	7.457	(0.921)	155132	52.0198	52.0	
$ 45	1,2-Dichloroethane-D4	65	8.142	8.135	(1.004)	188764	53.8614	53.9	
$ 55	Toluene-D8	98	10.380	10.374	(1.184)	725634	54.5505	54.6	
$ 76	P-Bromofluorobenzene	95	13.884	13.878	(1.584)	299864	57.2814	57.3	
* 42	Pentafluorobenzene	168	8.106	8.100	(1.000)	306575	50.0000		
* 49	1,4-Difluorobenzene	114	8.764	8.751	(1.000)	603429	50.0000		
* 66	Chlorobenzene-D5	117	12.246	12.233	(1.000)	602729	50.0000		
* 91	1,4-Dichlorobenzene-D4	152	15.564	15.558	(1.000)	311970	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
-cis-1,2-Dichloroethene (6.834)
-Dibromofluoromethane (7.463)
-1,2-Dichloroethane-D4 (8.107)+
-Trichloroethene (8.714)
-1,4-Difluorobenzene (8.765)
-Toluene-D8 (10.380)
Chlorobenzene (12.261)+
-P-Bromofluorobenzene (13.884)
1,4-Dichlorobenzene (15.564)+
-1,2-Dichlorobenzene (16.258)
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Sample Info: SF2129-7DL
Instrument: gcms-d.i

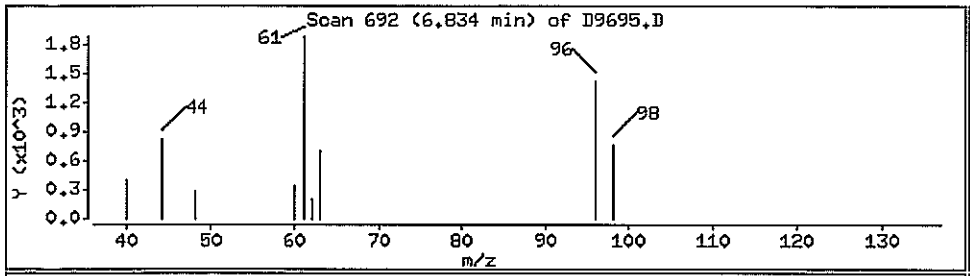
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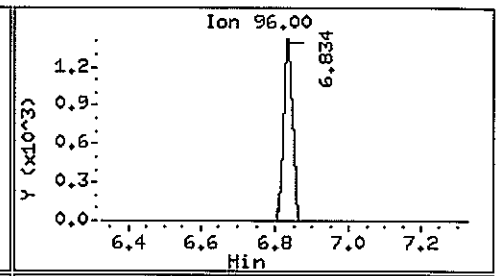
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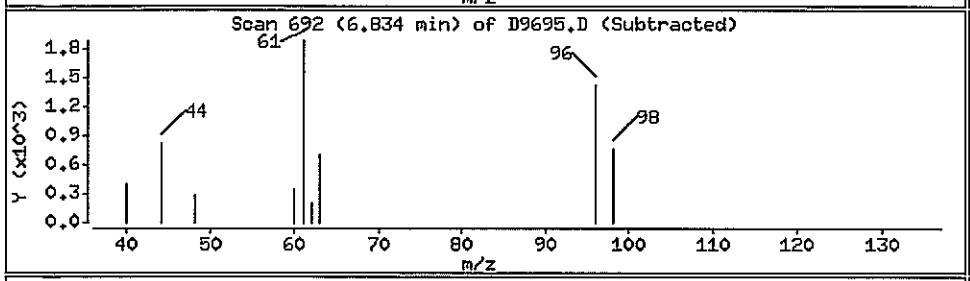
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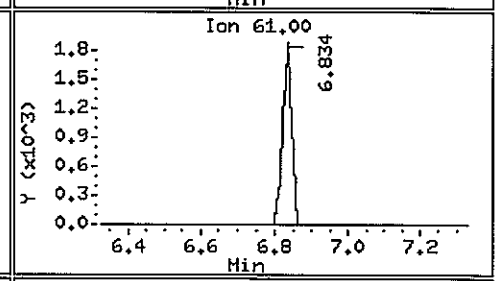
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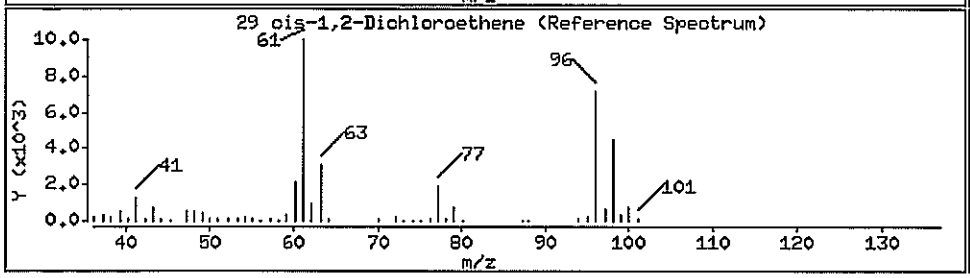
29 cis-1,2-Dichloroethene Concentration: 3.2 ug/l

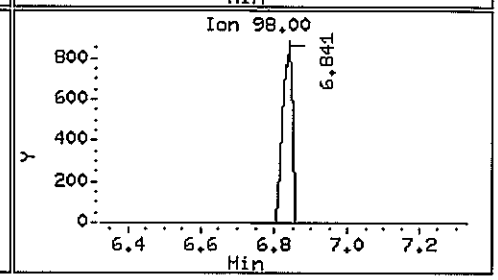




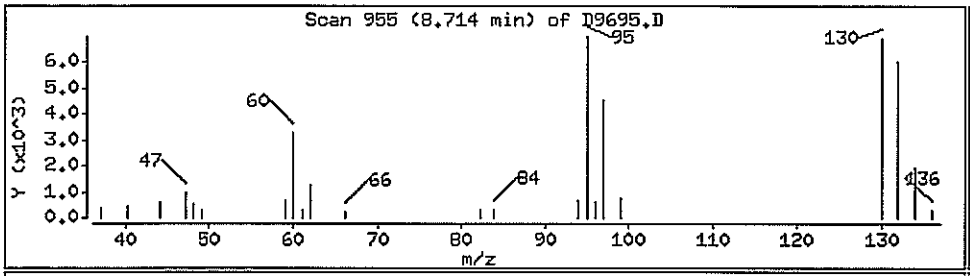


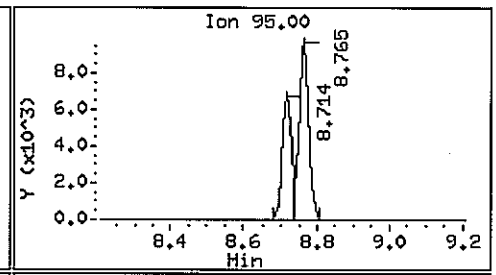


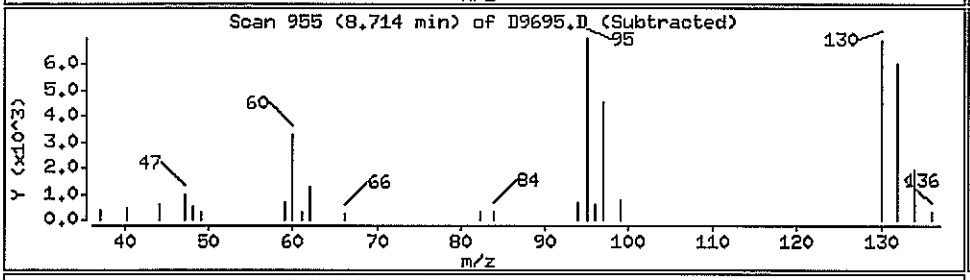


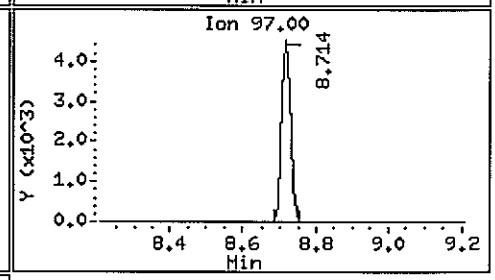


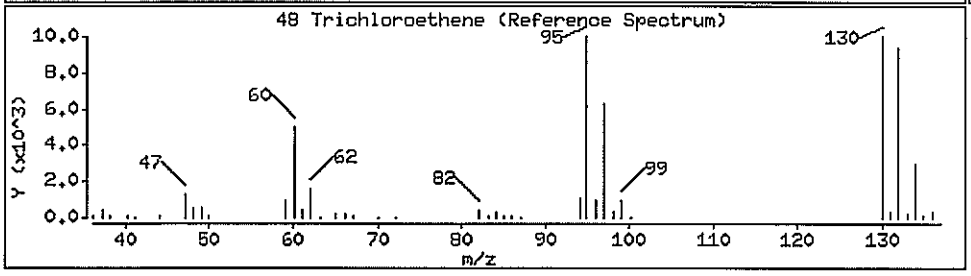
48 Trichloroethene Concentration: 30.3 ug/l











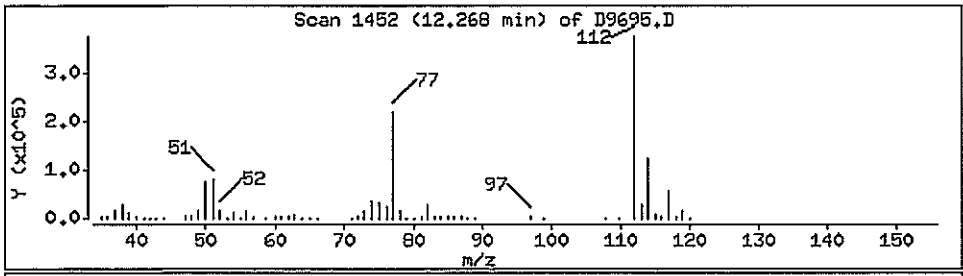
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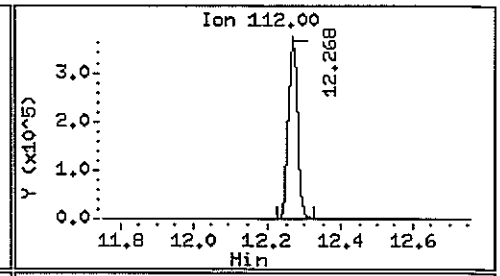
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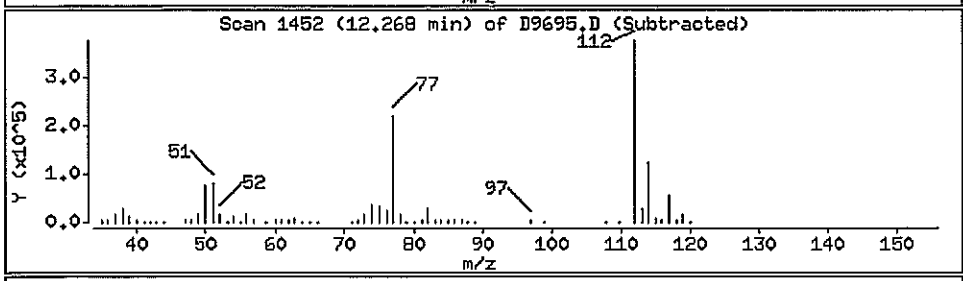
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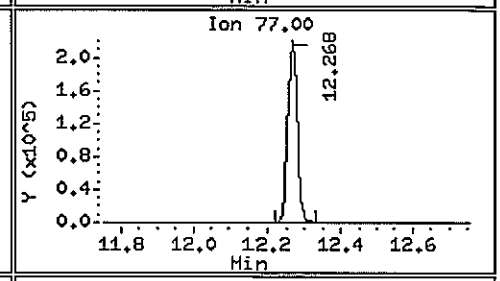
Sample Info: SF2129-7DL

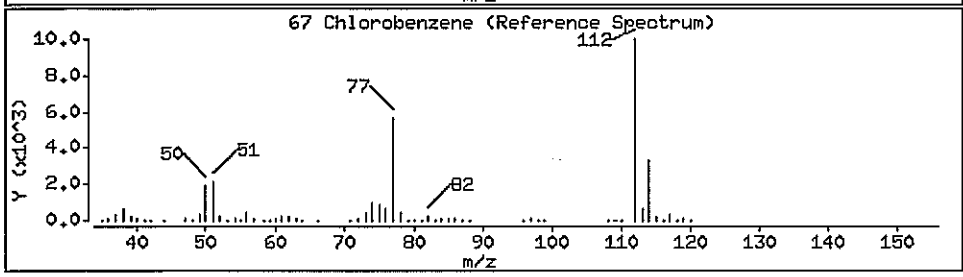
67 Chlorobenzene Concentration: 268 ug/l

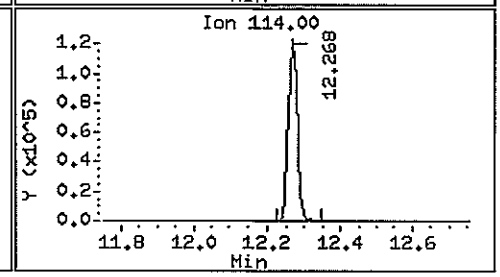




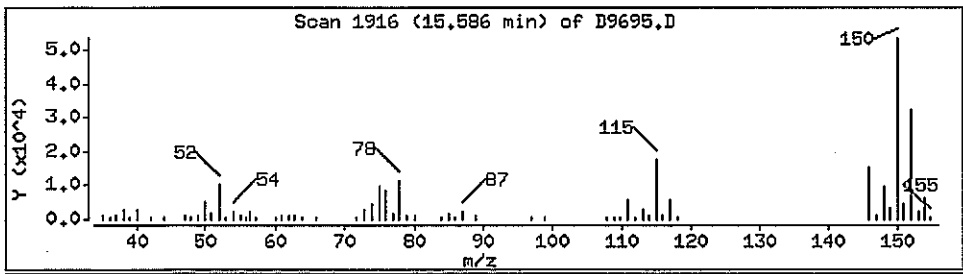


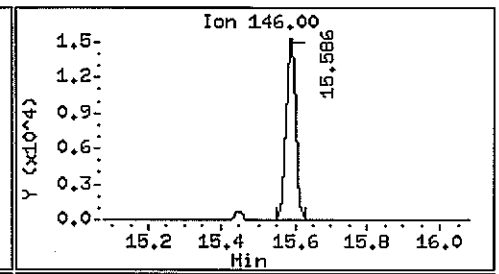


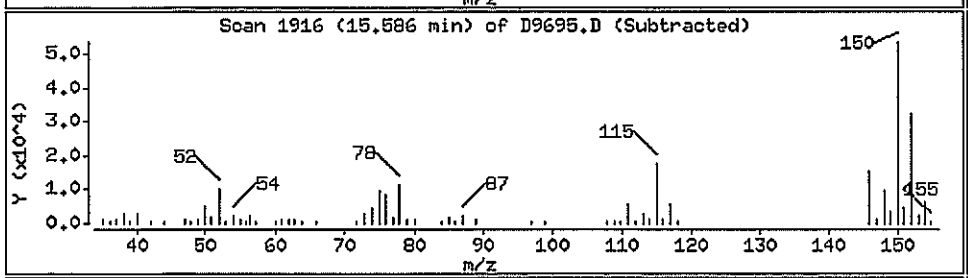


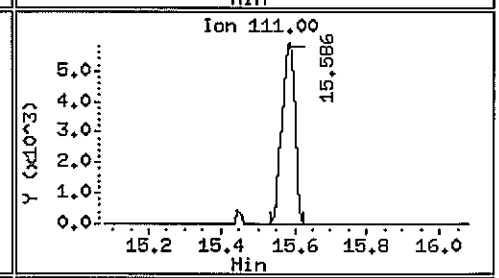


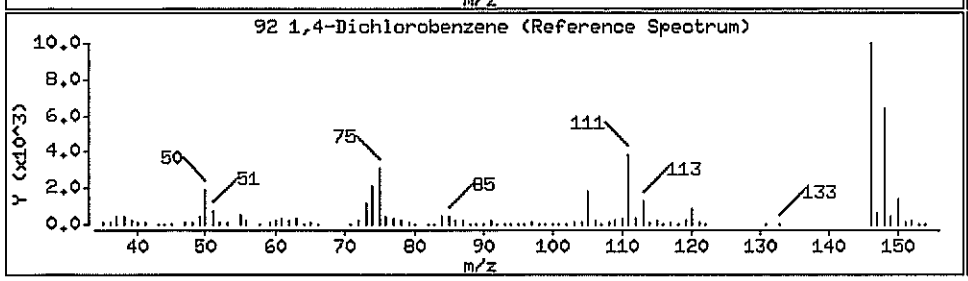
92 1,4-Dichlorobenzene Concentration: 14.1 ug/l

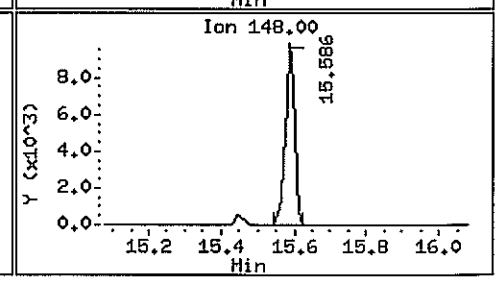












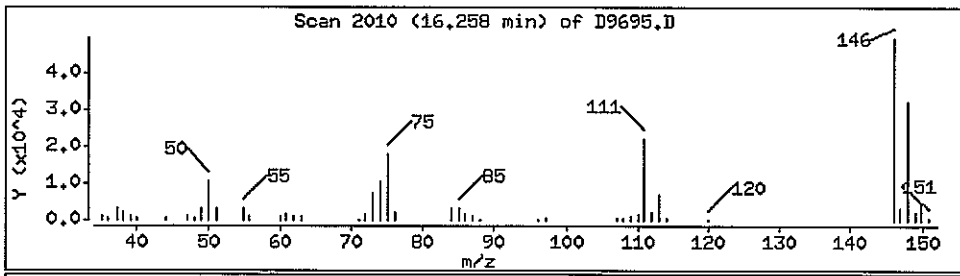
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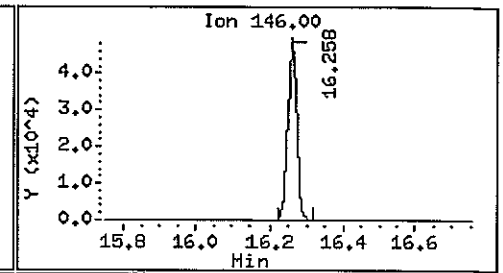
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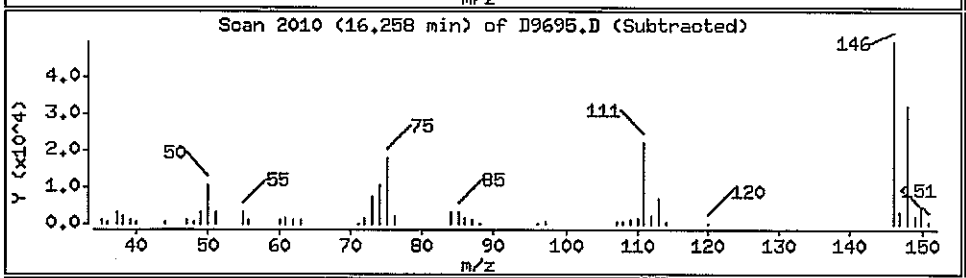
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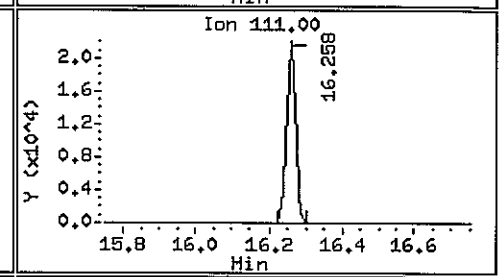
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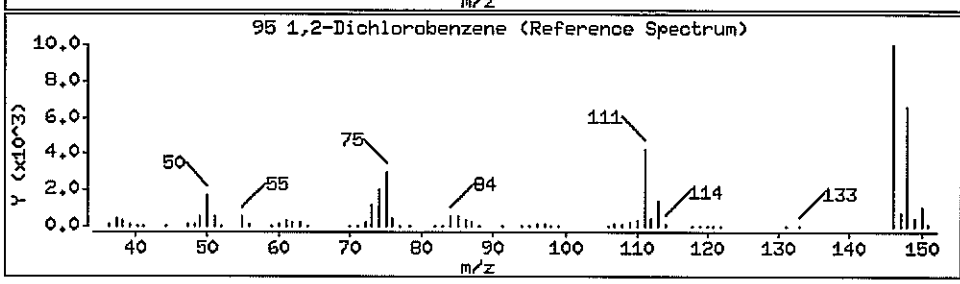
95 1,2-Dichlorobenzene Concentration: 50.7 ug/l

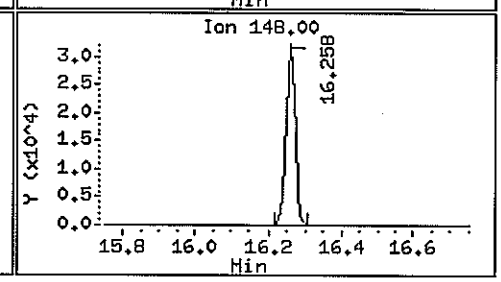












Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-8
Client ID: AOC9-MW15PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9727.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	J	1.6	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	J	0.76	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene		1.4	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-8
Client ID: AOC9-MW15PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9727.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	E	320	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene		1.4	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.3	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		17.	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		19.	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene		1.1	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	J	0.42	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		99.9	%					
Toluene-d8		110.	%					
P-Bromofluorobenzene		121.	%					
Dibromofluoromethane		98.7	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

Data File: \\target_server\GG\chem\gcms-d.i\D042412.b\D9727.D
Report Date: 03-May-2012 09:43

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D042412.b\D9727.D
Lab Smp Id: SF2129-8 Client Smp ID: AOC9-MW15PM04172012
Inj Date : 24-APR-2012 17:21 MS Autotune Date: 05-MAR-2010 09:29
Operator : MMM Inst ID: gcms-d.i
Smp Info : SF2129-8
Misc Info : WG107338,WG107009-4
Comment : SW846 5030
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Meth Date : 03-May-2012 09:27 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ENEGFS.sub
Target Version: 4.12
Processing Host: T6-0360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

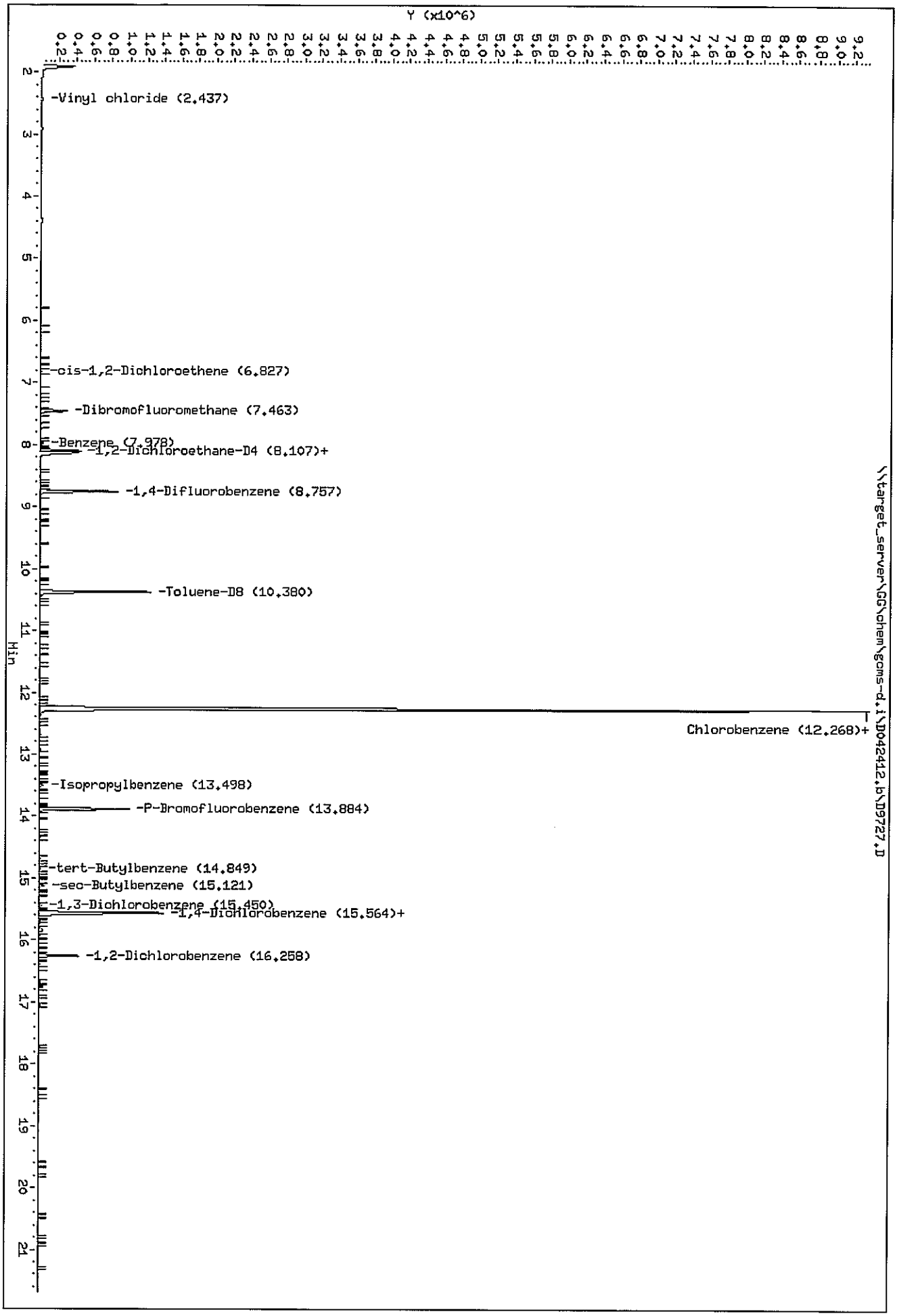
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
3	Vinyl chloride	62	2.436	2.437	(0.301)	12352	1.58139	1.6(a)	
29	cis-1,2-Dichloroethene	96	6.826	6.828	(0.842)	3448	0.75824	0.76(a)	
41	Benzene	78	7.978	7.972	(0.911)	27992	1.43597	1.4(M)	M10
67	Chlorobenzene	112	12.268	12.254	(1.002)	4654886	321.648	322(A)	
75	Isopropylbenzene	105	13.497	13.491	(0.867)	27824	1.40727	1.4	
90	1,3-Dichlorobenzene	146	15.449	15.436	(0.993)	14637	1.34265	1.3	
92	1,4-Dichlorobenzene	146	15.585	15.579	(1.001)	196962	16.8345	16.8	
95	1,2-Dichlorobenzene	146	16.257	16.251	(1.045)	192354	19.1679	19.2	
94	sec-Butylbenzene	105	15.120	15.115	(0.972)	26915	1.06324	1.1	
86	tert-Butylbenzene	119	14.849	14.843	(0.954)	7842	0.41522	0.42(a)	
$ 37	Dibromofluoromethane	113	7.463	7.457	(0.921)	174675	49.3360	49.3	
$ 45	1,2-Dichloroethane-D4	65	8.142	8.135	(1.004)	207798	49.9420	49.9	
$ 55	Toluene-D8	98	10.380	10.374	(1.185)	832742	55.1741	55.2	
$ 76	P-Bromofluorobenzene	95	13.884	13.878	(1.585)	360014	60.6111	60.6	
* 42	Pentafluorobenzene	168	8.106	8.100	(1.000)	363974	50.0000		
* 49	1,4-Difluorobenzene	114	8.757	8.751	(1.000)	684672	50.0000		
* 66	Chlorobenzene-D5	117	12.246	12.233	(1.000)	763450	50.0000		
* 91	1,4-Dichlorobenzene-D4	152	15.564	15.558	(1.000)	374131	50.0000		

MMM 5.3.12

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



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Sample Info: SF2129-8

Instrument: gcms-d.i

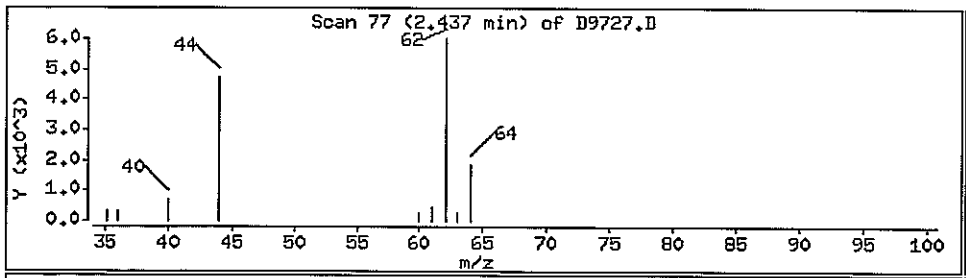
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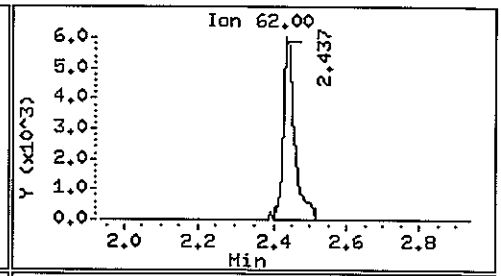
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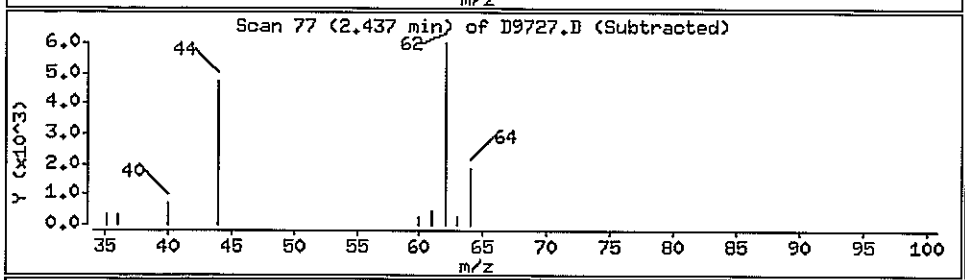
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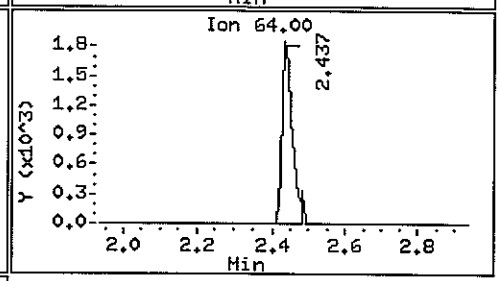
Sample Info: SF2129-8

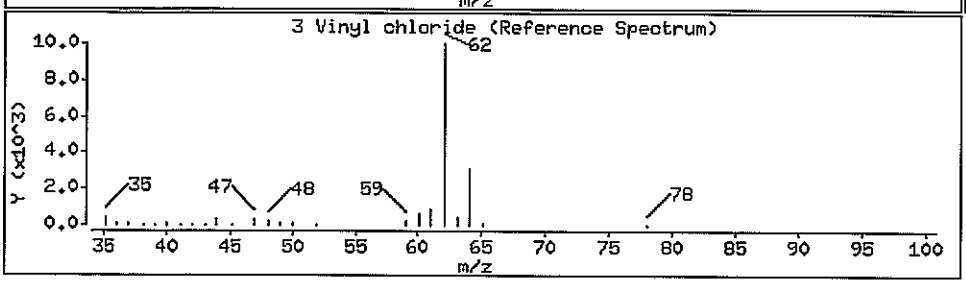
3 Vinyl chloride Concentration: 1.6 ug/l



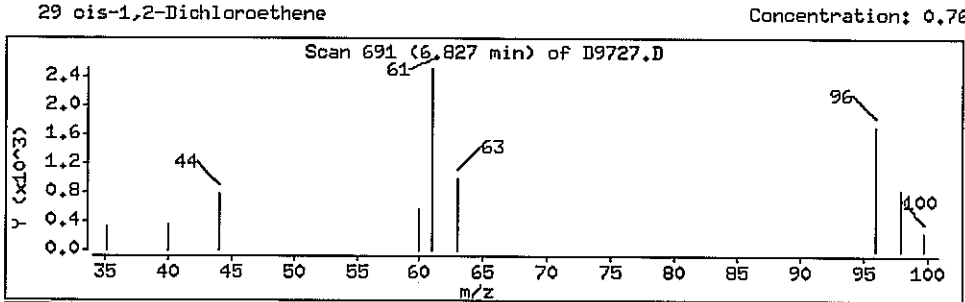


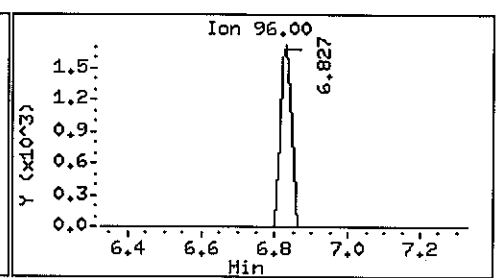


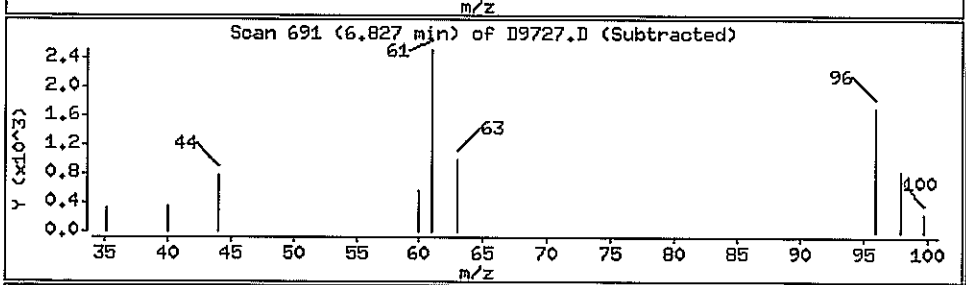


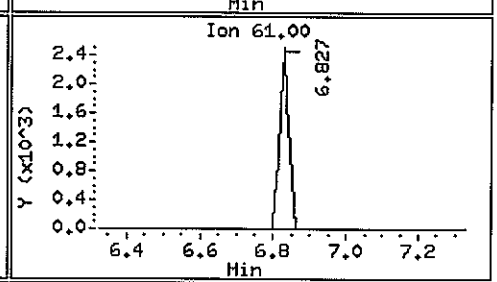


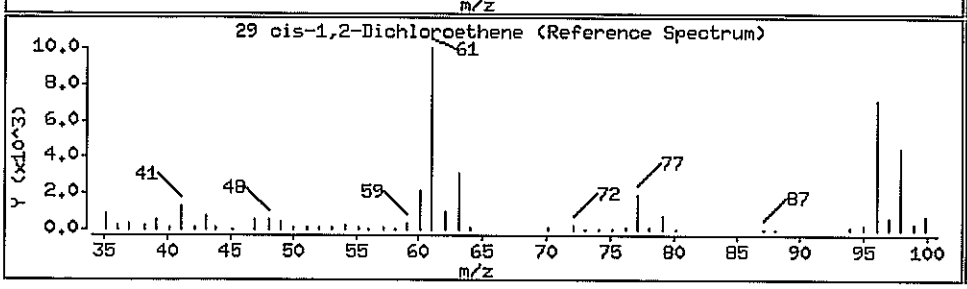
29 cis-1,2-Dichloroethene Concentration: 0.76 ug/l

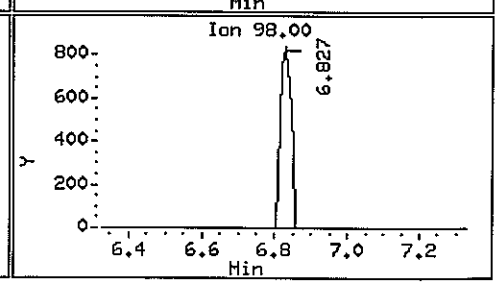












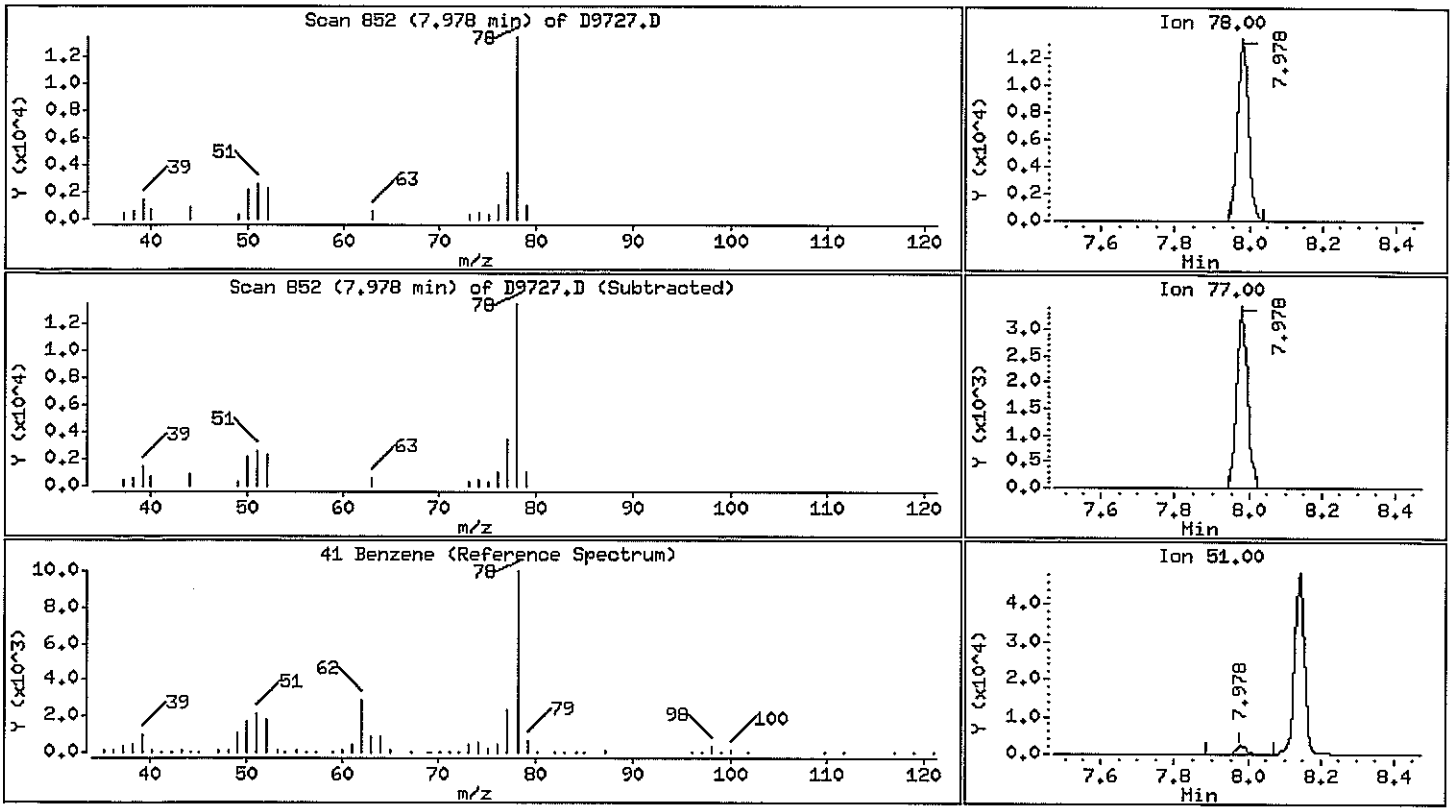
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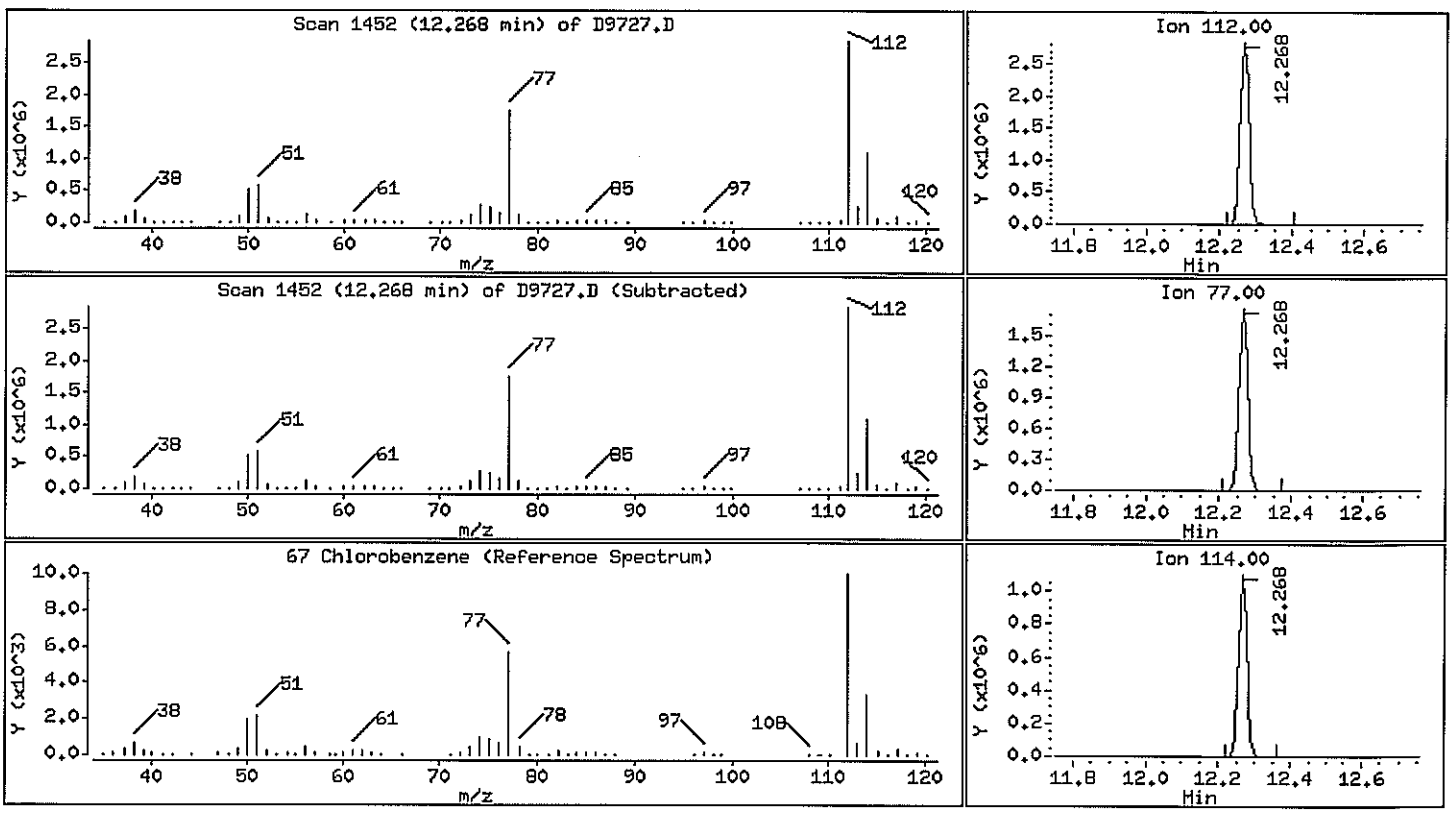
Client ID: AOC9-MW15PM04172012 Instrument: gcms-d.i

Sample Info: SF2129-8

41 Benzene Concentration: 1.4 ug/l



67 Chlorobenzene Concentration: 322 ug/l



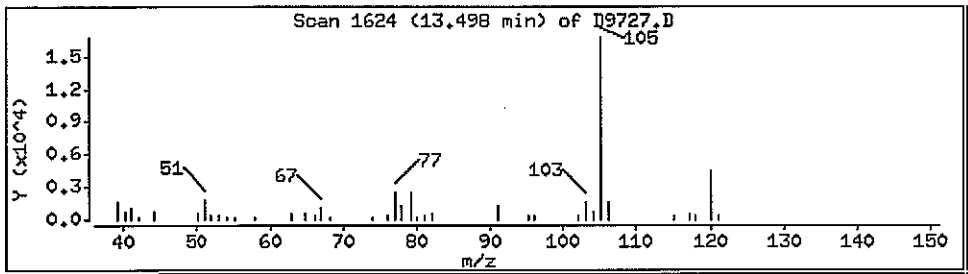
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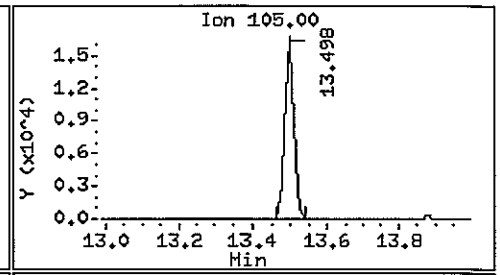
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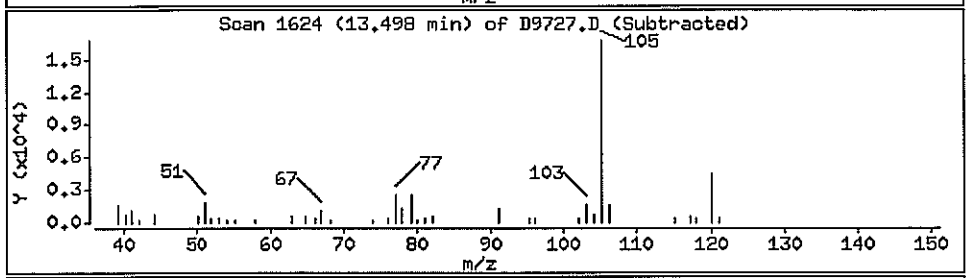
Client ID: A0C9-MW15PM04172012 Instrument: gcms-d.i

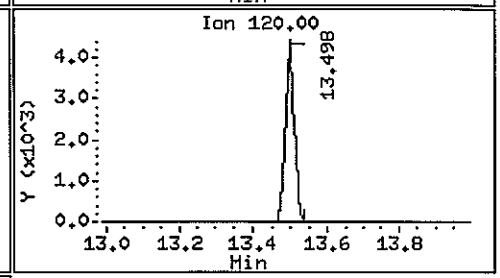
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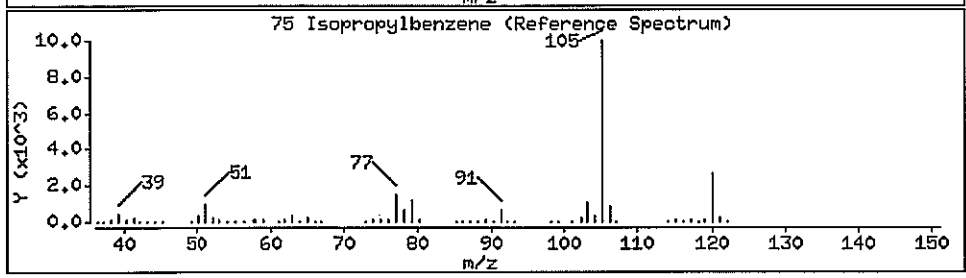
75 Isopropylbenzene Concentration: 1.4 ug/l



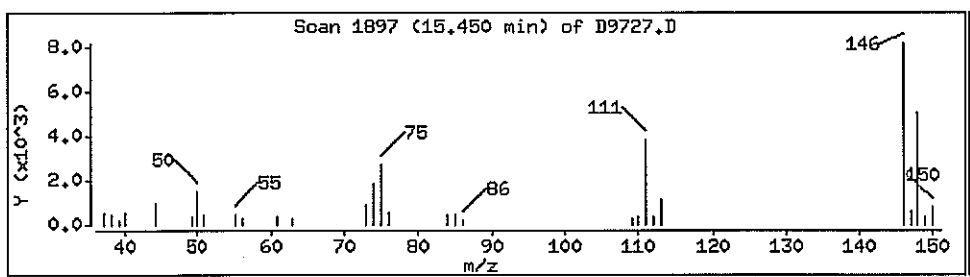


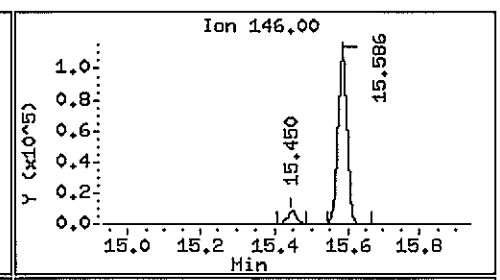


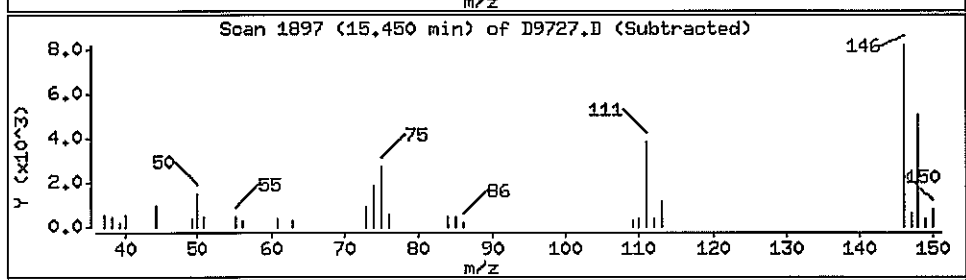


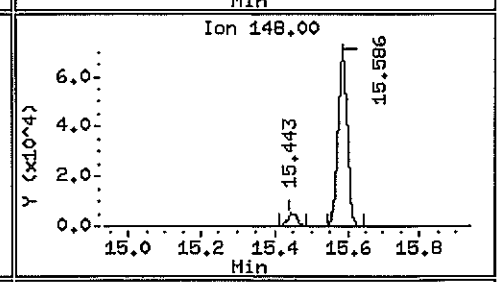


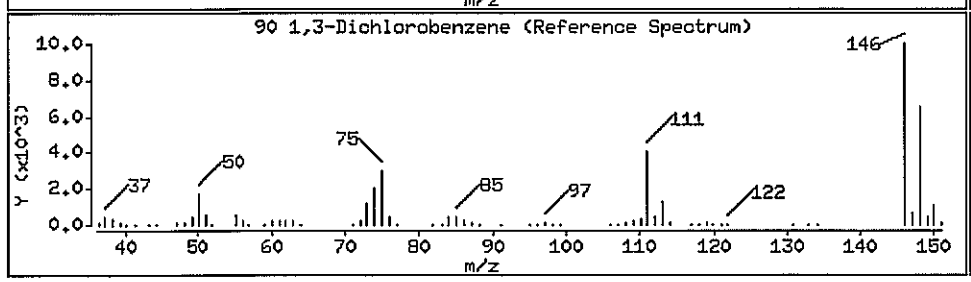
90 1,3-Dichlorobenzene Concentration: 1.3 ug/l

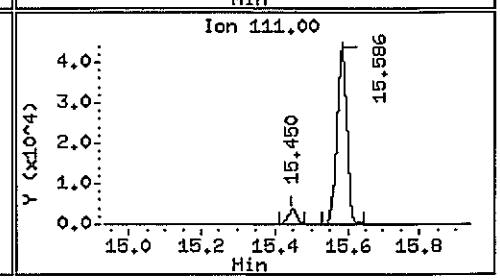












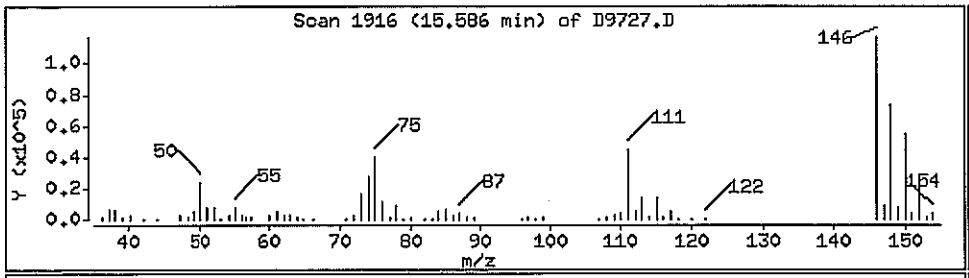
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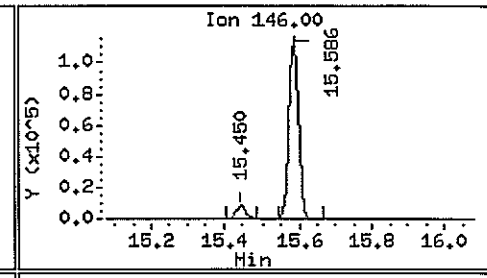
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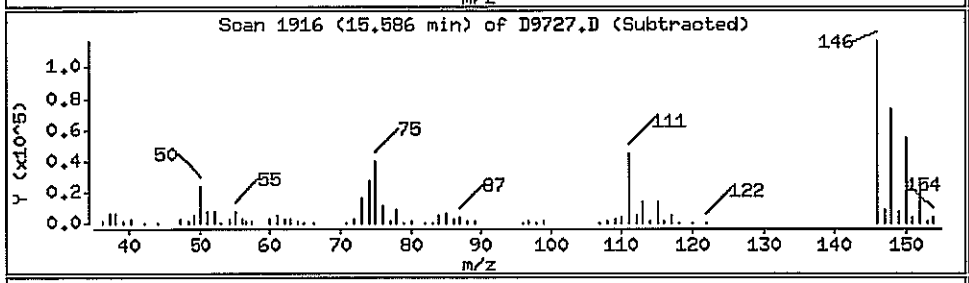
Client ID: A0C9-MW15PM04172012 Instrument: gcms-d.i

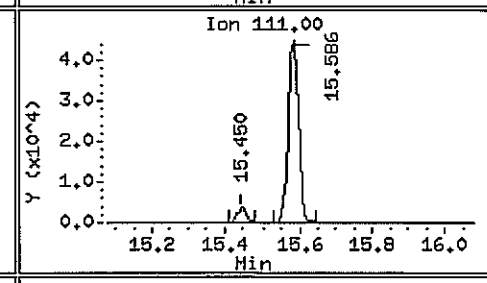
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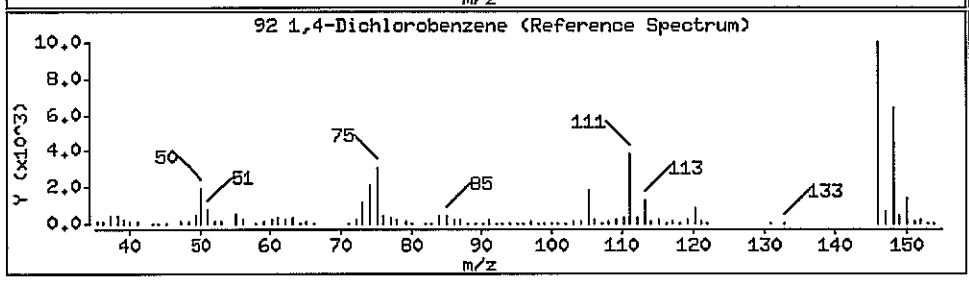
92 1,4-Dichlorobenzene Concentration: 16.8 ug/l

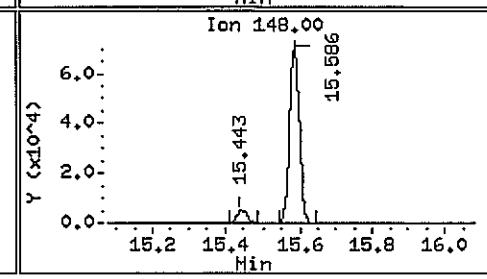




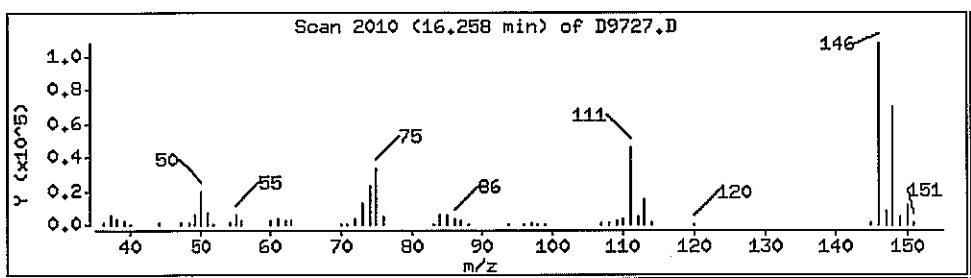


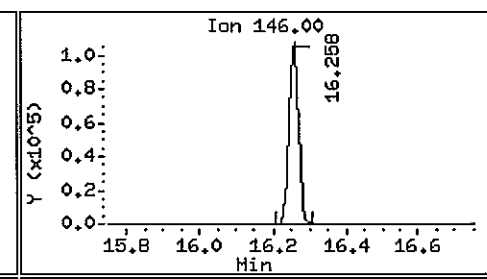


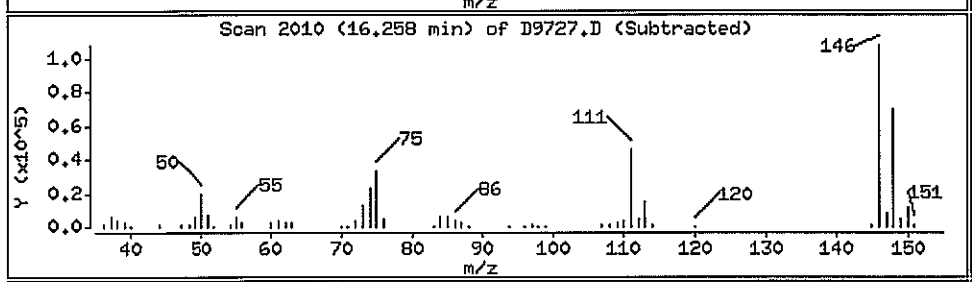


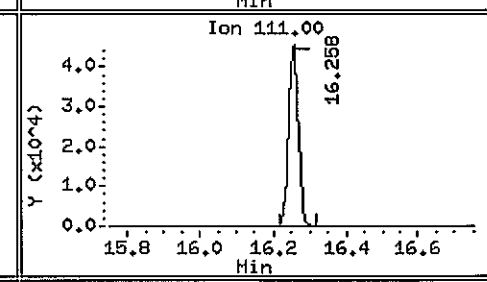


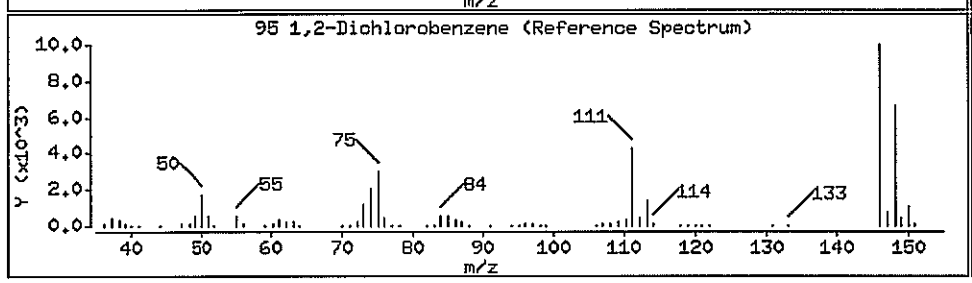
95 1,2-Dichlorobenzene Concentration: 19.2 ug/l

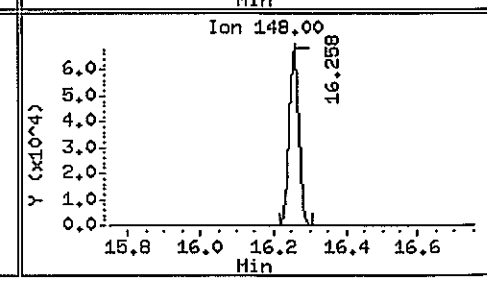






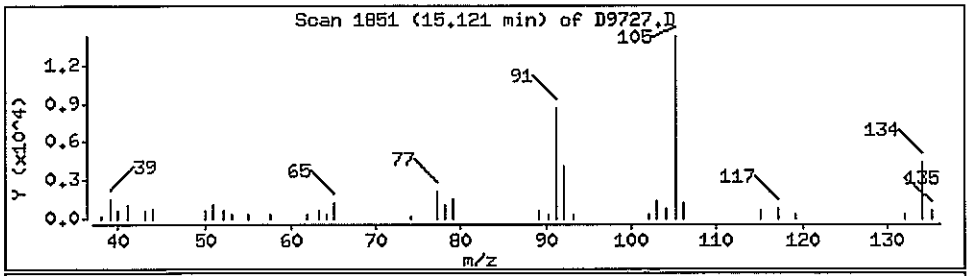


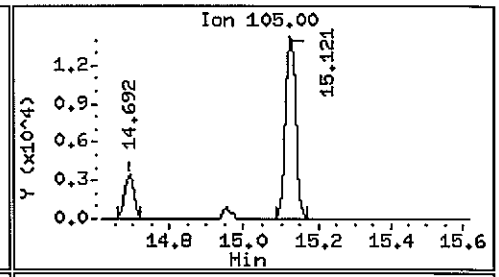


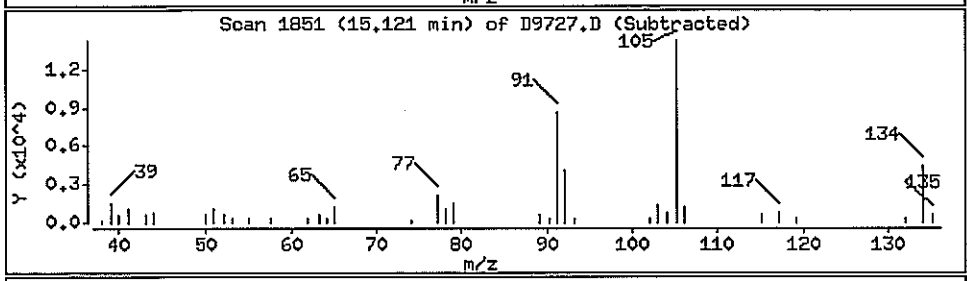


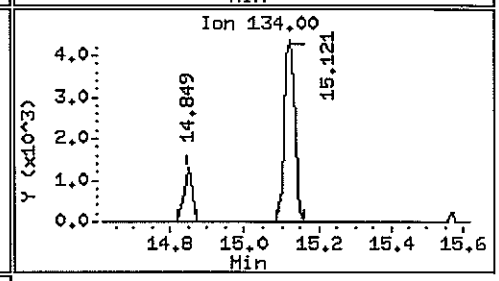
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Client ID: ADC9-MW15PM04172012 Instrument: gcms-d.i
Sample Info: SF2129-8

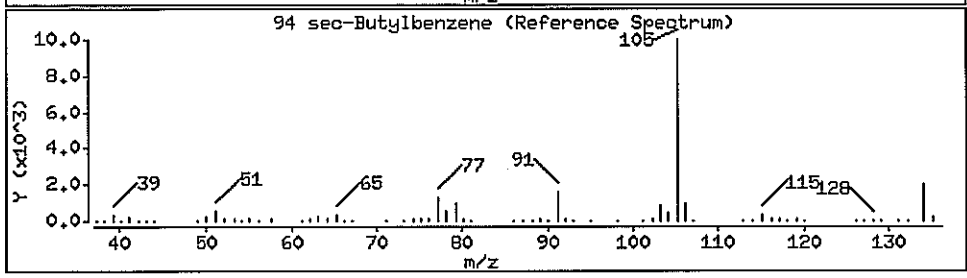
94 sec-Butylbenzene Concentration: 1.1 ug/l



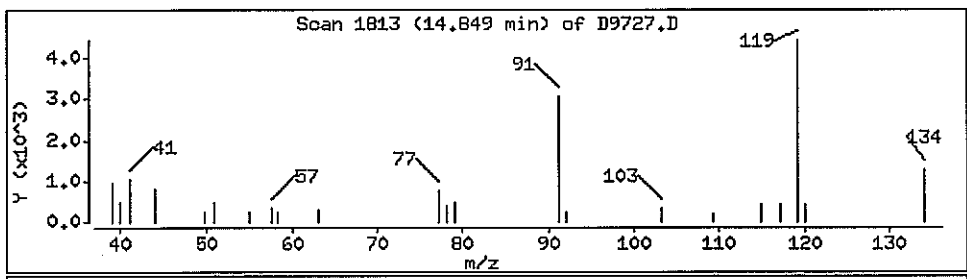


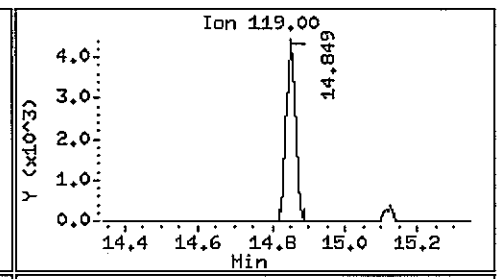


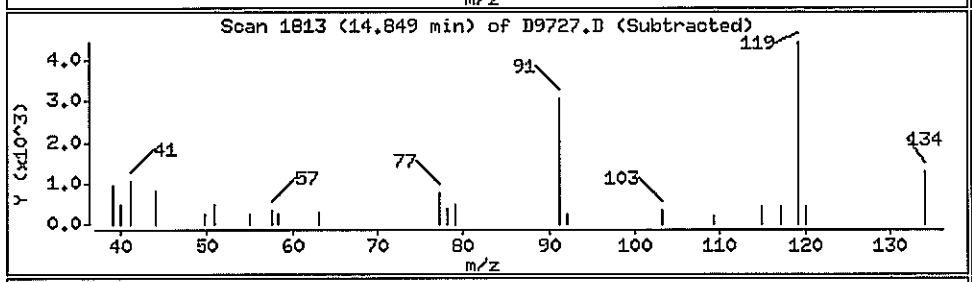


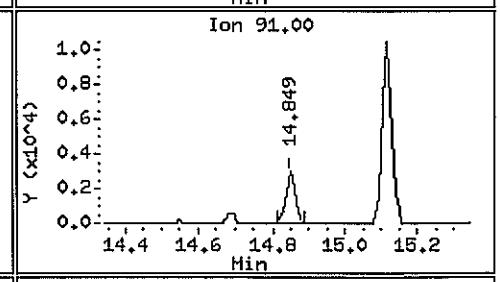


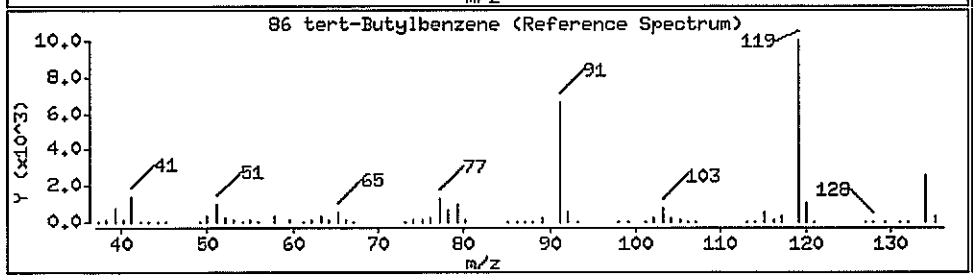
86 tert-Butylbenzene Concentration: 0.42 ug/l

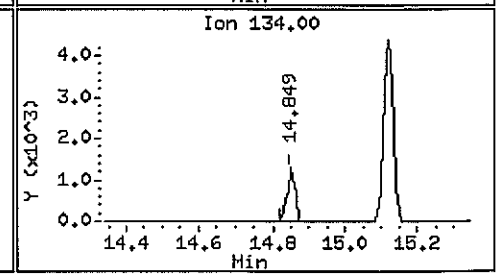








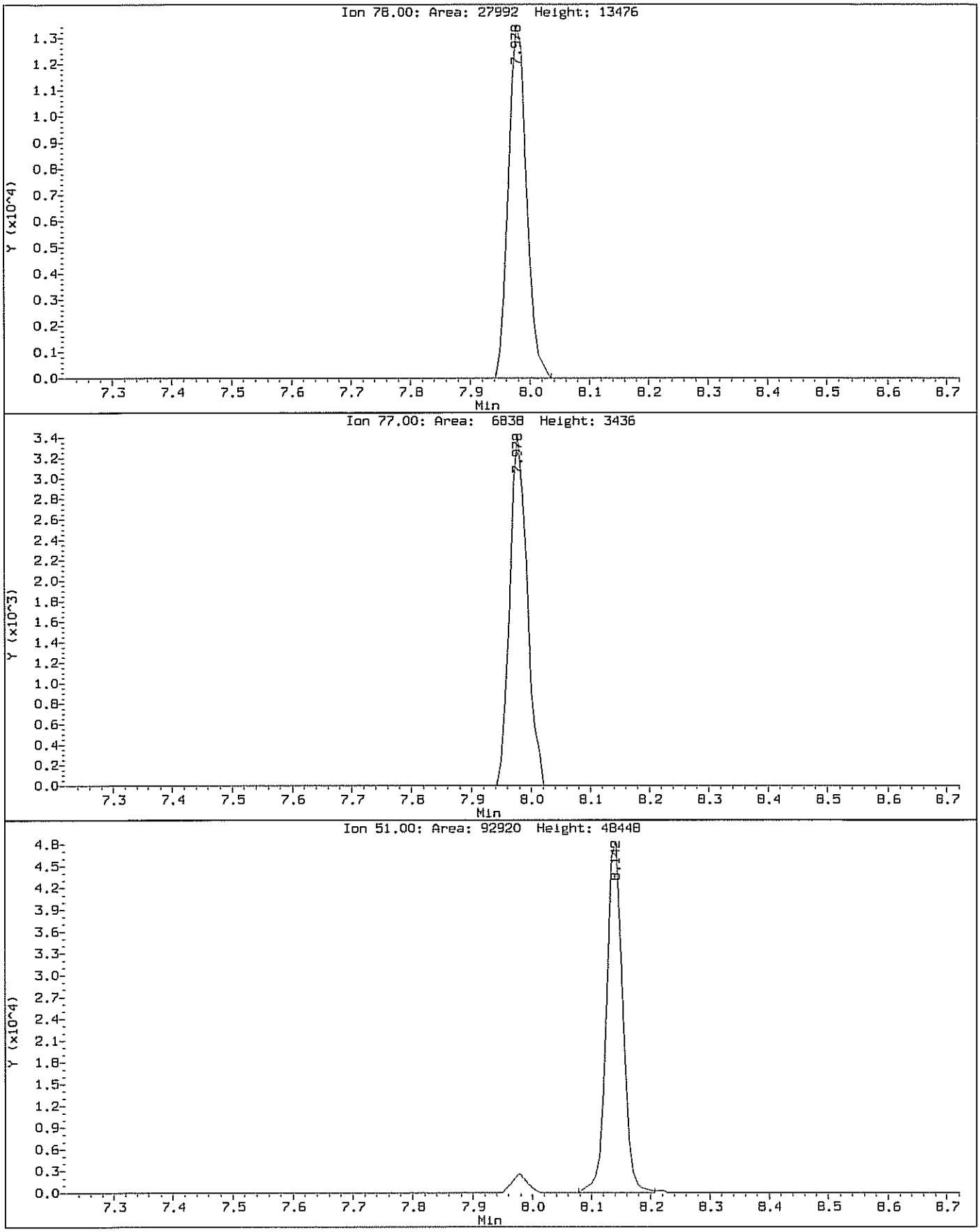




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Instrument: gcms-d.i
Client Sample ID: AOC9-MW15PM04172012

Before

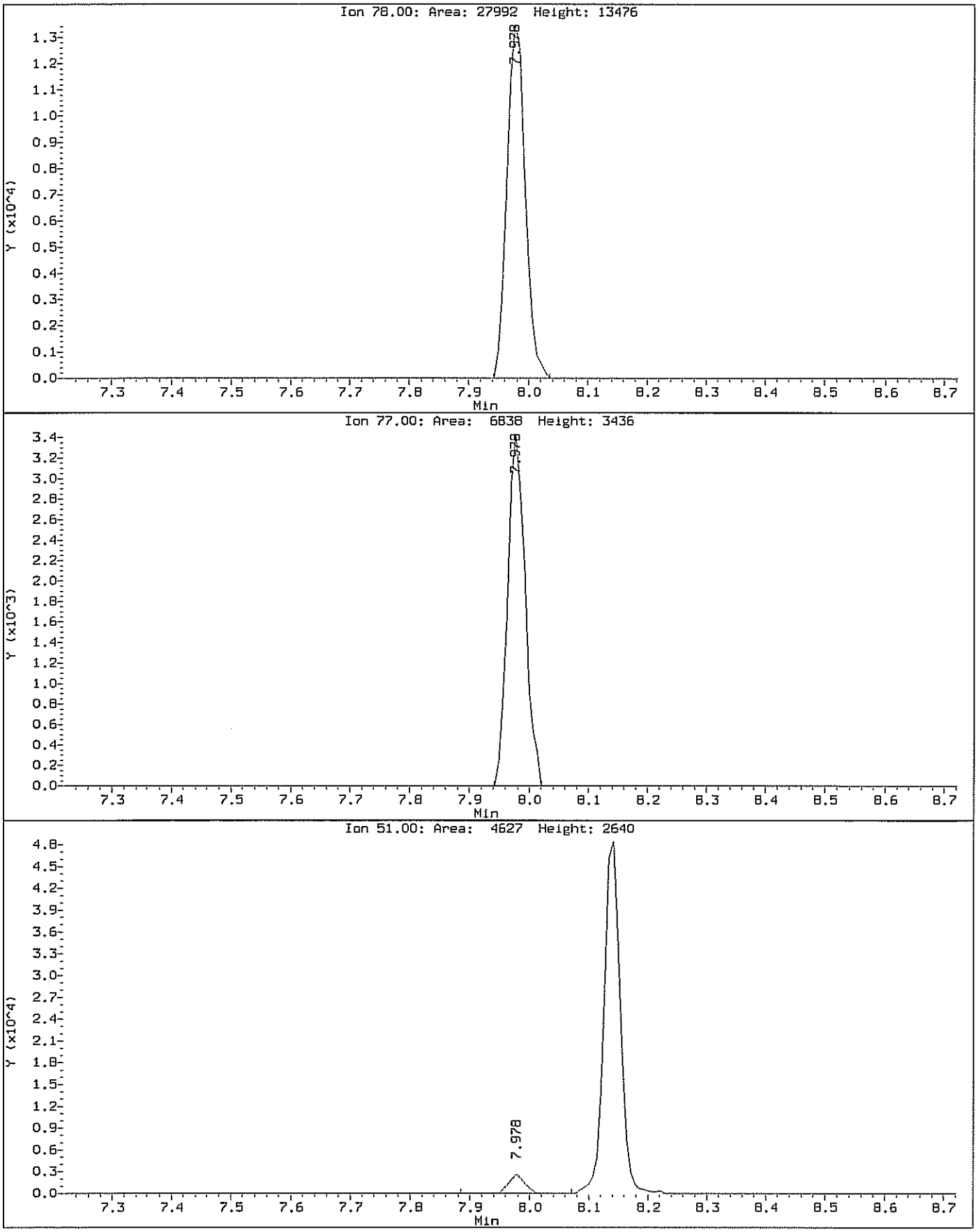
Compound: Benzene
CAS Number: 71-43-2



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Injection Date: 24-APR-2012 17:21
Instrument: gcms-d.i
Client Sample ID: AOC9-MW15PM04172012

After

Compound: Benzene
CAS Number: 71-43-2



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-8DL
Client ID: AOC9-MW15PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9719.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	8.0	ug/L	4	2	8.0	0.96	4.0
Chloromethane	U	8.0	ug/L	4	2	8.0	1.4	4.0
Vinyl Chloride	U	8.0	ug/L	4	2	8.0	1.0	4.0
Bromomethane	U	8.0	ug/L	4	2	8.0	2.0	4.0
Chloroethane	U	8.0	ug/L	4	2	8.0	2.2	4.0
Trichlorofluoromethane	U	8.0	ug/L	4	2	8.0	0.96	4.0
1,1-Dichloroethene	U	4.0	ug/L	4	1	4.0	1.4	2.0
Freon-113	U	4.0	ug/L	4	1	4.0	1.2	2.0
Acetone	U	20.	ug/L	4	5	20.	8.8	10.
Carbon Disulfide	U	4.0	ug/L	4	1	4.0	1.0	2.0
Methyl Acetate	U	4.0	ug/L	4	1	4.0	2.1	3.0
Methylene Chloride	U	20.	ug/L	4	5	20.	4.5	10.
trans-1,2-Dichloroethene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Methyl tert-butyl Ether	U	4.0	ug/L	4	1	4.0	1.4	2.0
1,1-Dichloroethane	U	4.0	ug/L	4	1	4.0	0.84	2.0
cis-1,2-Dichloroethene	U	4.0	ug/L	4	1	4.0	0.84	2.0
2-Butanone	U	20.	ug/L	4	5	20.	5.2	10.
Chloroform	U	4.0	ug/L	4	1	4.0	1.3	2.0
1,1,1-Trichloroethane	U	4.0	ug/L	4	1	4.0	0.80	2.0
Cyclohexane	U	4.0	ug/L	4	1	4.0	1.2	2.0
Carbon Tetrachloride	U	4.0	ug/L	4	1	4.0	0.88	2.0
Benzene	J	1.5	ug/L	4	1	4.0	1.0	2.0
1,2-Dichloroethane	U	4.0	ug/L	4	1	4.0	0.80	2.0
Trichloroethene	U	4.0	ug/L	4	1	4.0	1.1	2.0
Methylcyclohexane	U	4.0	ug/L	4	1	4.0	1.2	2.0
1,2-Dichloropropane	U	4.0	ug/L	4	1	4.0	1.0	2.0
Bromodichloromethane	U	4.0	ug/L	4	1	4.0	1.3	2.0
cis-1,3-Dichloropropene	U	4.0	ug/L	4	1	4.0	0.76	2.0
4-Methyl-2-Pentanone	U	20.	ug/L	4	5	20.	5.3	10.
Toluene	U	4.0	ug/L	4	1	4.0	1.1	2.0
trans-1,3-Dichloropropene	U	4.0	ug/L	4	1	4.0	0.80	2.0
1,1,2-Trichloroethane	U	4.0	ug/L	4	1	4.0	1.3	2.0
Tetrachloroethene	U	4.0	ug/L	4	1	4.0	1.6	2.0
2-Hexanone	U	20.	ug/L	4	5	20.	6.8	10.
Dibromochloromethane	U	4.0	ug/L	4	1	4.0	1.2	2.0

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-8DL
Client ID: AOC9-MW15PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9719.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	4.0	ug/L	4	1	4.0	0.88	2.0
Chlorobenzene		320	ug/L	4	1	4.0	0.88	2.0
Ethylbenzene	U	4.0	ug/L	4	1	4.0	0.84	2.0
M+P-Xylenes	U	8.0	ug/L	4	2	8.0	2.4	4.0
o-Xylene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Styrene	U	4.0	ug/L	4	1	4.0	0.92	2.0
Bromoform	U	4.0	ug/L	4	1	4.0	0.92	2.0
Isopropylbenzene	J	1.4	ug/L	4	1	4.0	0.92	2.0
1,1,2,2-Tetrachloroethane	U	4.0	ug/L	4	1	4.0	1.5	2.0
1,3-Dichlorobenzene	J	1.4	ug/L	4	1	4.0	1.0	2.0
1,4-Dichlorobenzene		16.	ug/L	4	1	4.0	0.96	2.0
1,2-Dichlorobenzene		17.	ug/L	4	1	4.0	0.60	2.0
1,2-Dibromo-3-Chloropropane	U	4.0	ug/L	4	1	4.0	2.0	2.0
1,2,4-Trichlorobenzene	U	4.0	ug/L	4	1	4.0	1.5	2.0
bromochloromethane	U	4.0	ug/L	4	1	4.0	0.84	2.0
1,4-Dioxane	U	400	ug/L	4	100	400	35.	200
1,2,3-trichlorobenzene	U	4.0	ug/L	4	1	4.0	1.1	2.0
1,3,5-Trimethylbenzene	U	4.0	ug/L	4	1	4.0	0.80	2.0
1,2,4-Trimethylbenzene	U	4.0	ug/L	4	1	4.0	0.76	2.0
4-Chlorotoluene	U	4.0	ug/L	4	1	4.0	0.76	2.0
n-Butylbenzene	U	4.0	ug/L	4	1	4.0	0.92	2.0
n-Propylbenzene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Naphthalene	U	4.0	ug/L	4	1	4.0	1.2	2.0
p-Isopropyltoluene	U	4.0	ug/L	4	1	4.0	1.0	2.0
sec-Butylbenzene	J	0.97	ug/L	4	1	4.0	0.84	2.0
tert-Butylbenzene	U	4.0	ug/L	4	1	4.0	1.2	2.0
1,2-Dichloroethane-d4		101.	%					
Toluene-d8		108.	%					
P-Bromofluorobenzene		118.	%					
Dibromofluoromethane		97.0	%					

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Report Date: 03-May-2012 09:42

Katahdin Analytical Services

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Operator : MMM Inst ID: gcms-d.i
Smp Info : SF2129-8DL
Misc Info : WG107338,WG107009-4
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Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 10
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: ENEGFS.sub
Target Version: 4.12
Processing Host: T6-0360

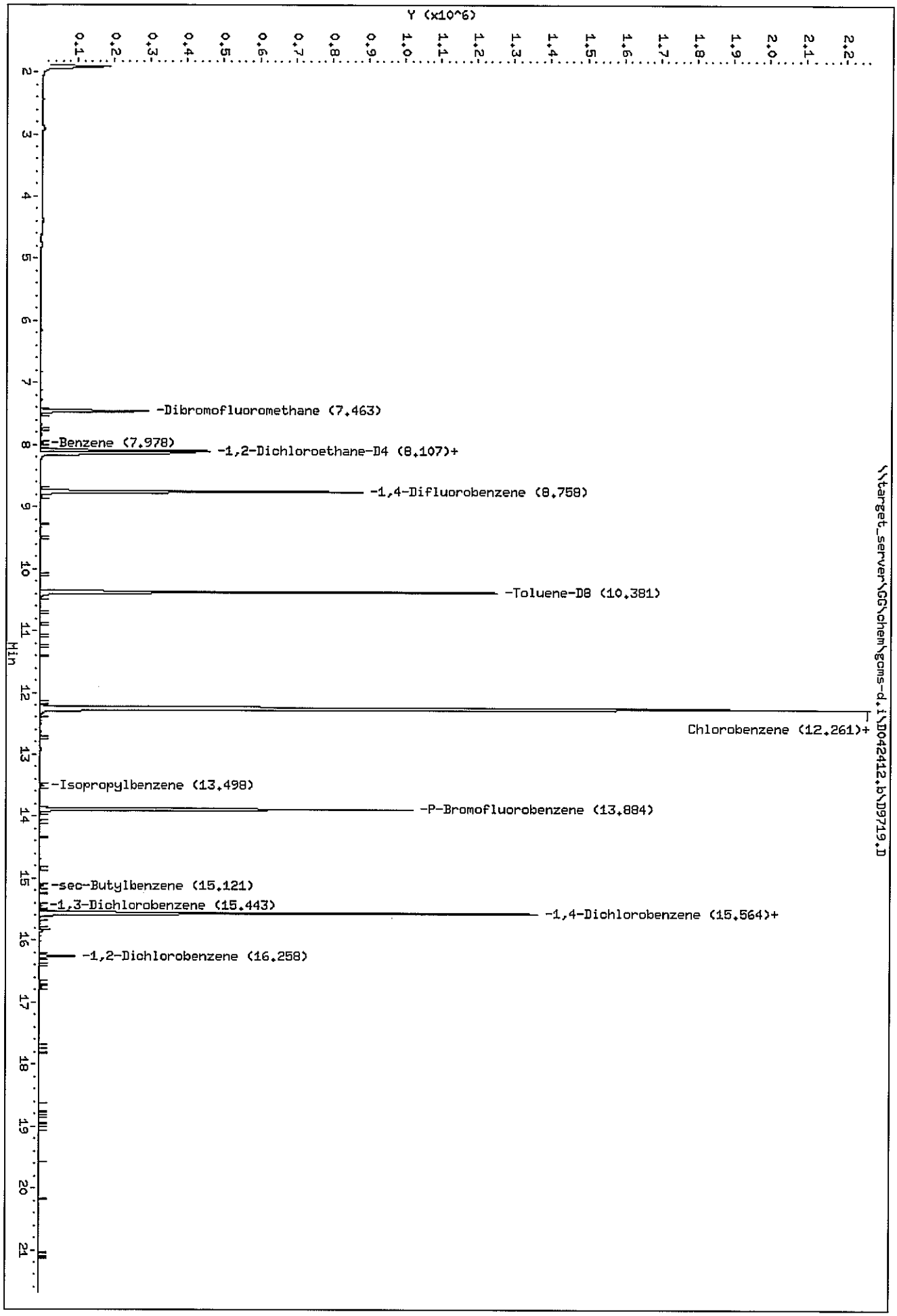
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	4.000	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
41 Benzene	78	7.985	7.972	(0.912)	7497	0.37864	1.5(aM)	M10
67 Chlorobenzene	112	12.261	12.254	(1.002)	1052718	78.8379	315	MMM 5-3-12
75 Isopropylbenzene	105	13.498	13.491	(0.867)	6781	0.34672	1.4(a)	
90 1,3-Dichlorobenzene	146	15.450	15.436	(0.993)	3712	0.34422	1.4(a)	
92 1,4-Dichlorobenzene	146	15.585	15.579	(1.001)	45177	3.90355	15.6	
95 1,2-Dichlorobenzene	146	16.258	16.251	(1.045)	42791	4.31073	17.2	
94 sec-Butylbenzene	105	15.121	15.115	(0.972)	6069	0.24237	0.97(a)	
$ 37 Dibromofluoromethane	113	7.463	7.457	(0.921)	173951	48.5176	48.5	
$ 45 1,2-Dichloroethane-D4	65	8.142	8.135	(1.004)	211974	50.3090	50.3	
$ 55 Toluene-D8	98	10.380	10.374	(1.185)	830516	54.1748	54.2	
$ 76 P-Bromofluorobenzene	95	13.884	13.878	(1.585)	354477	58.7551	58.8	
* 42 Pentafluorobenzene	168	8.106	8.100	(1.000)	368580	50.0000		
* 49 1,4-Difluorobenzene	114	8.757	8.751	(1.000)	695437	50.0000		
* 66 Chlorobenzene-D5	117	12.239	12.233	(1.000)	701215	50.0000		
* 91 1,4-Dichlorobenzene-D4	152	15.564	15.558	(1.000)	370083	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
Min
2
3
4
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20
21
-Dibromofluoromethane (7.463)
-Benzene (7.978)
-1,2-Dichloroethane-D4 (8.107)+
-1,4-Difluorobenzene (8.758)
-Toluene-D8 (10.381)
Chlorobenzene (12.261)+
-Isopropylbenzene (13.498)
-P-Bromofluorobenzene (13.884)
-sec-Butylbenzene (15.121)
-1,3-Dichlorobenzene (15.443)
-1,4-Dichlorobenzene (15.564)+
-1,2-Dichlorobenzene (16.258)
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Date : 24-APR-2012 13:35
Client ID: AOC9-MW15PM04172012
Sample Info: SF2129-BDL
Instrument: gcms-d.i

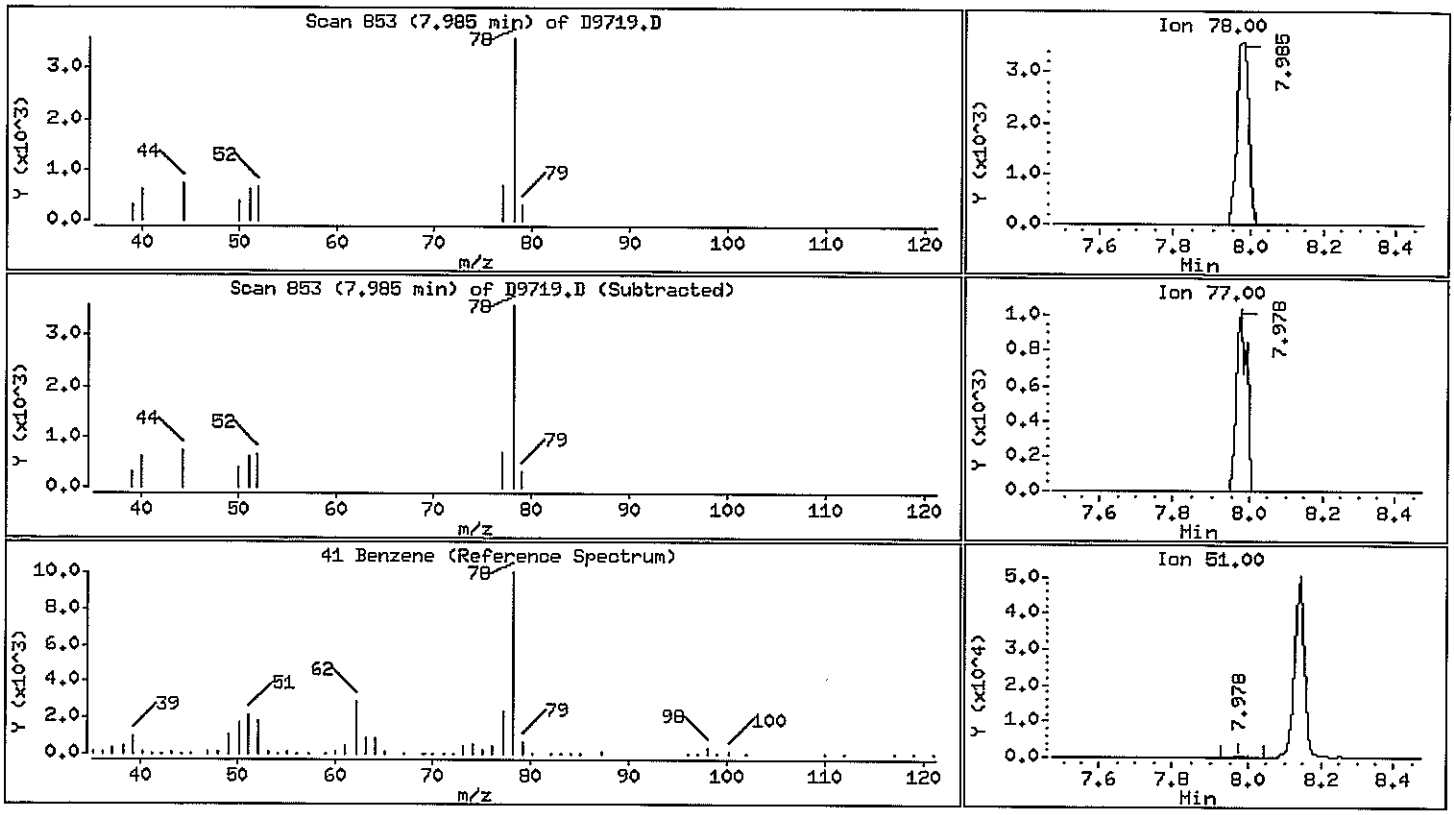
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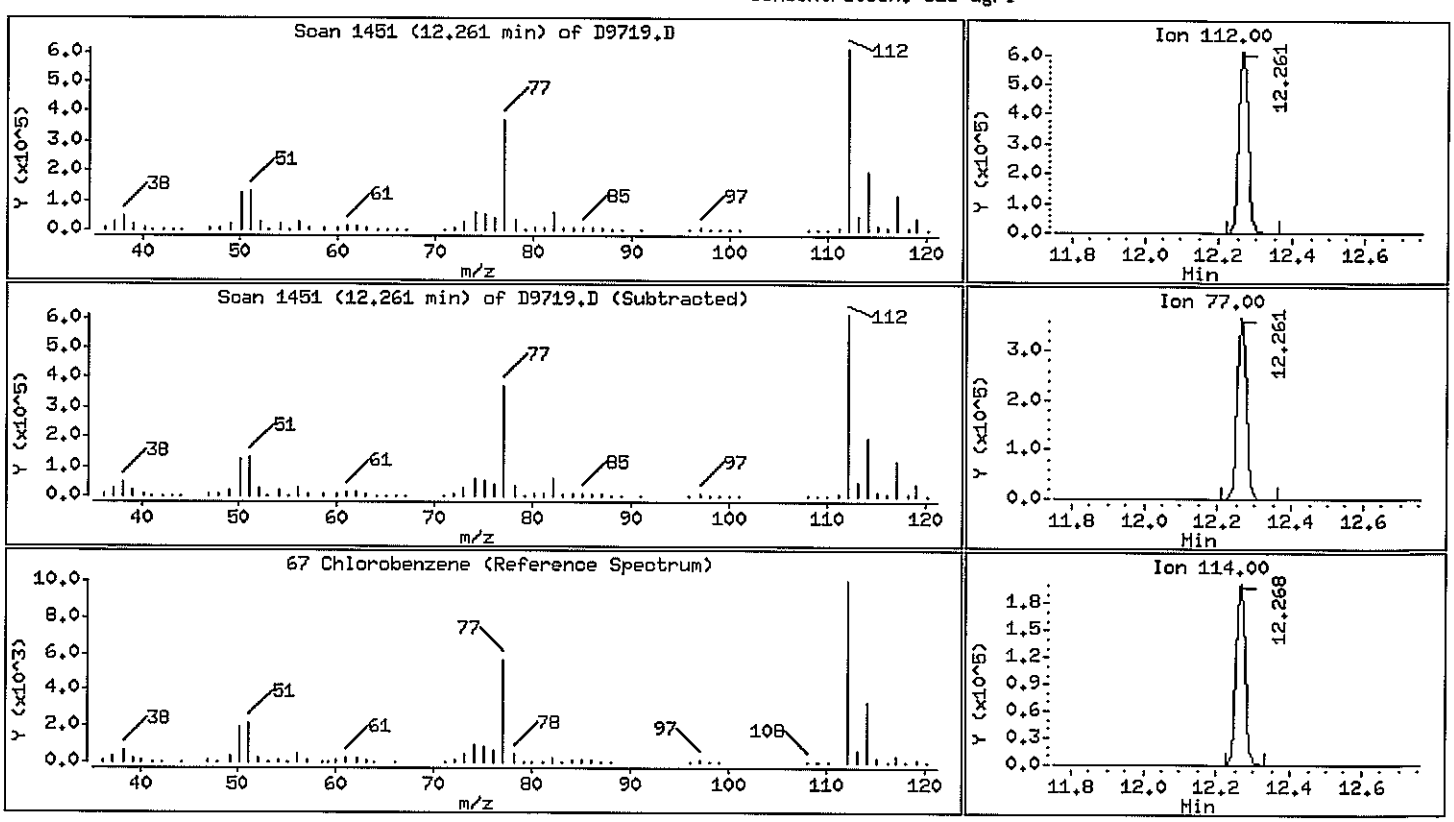
Client ID: A0C9-MW15PH04172012 Instrument: gcms-d.i

Sample Info: SF2129-8DL

41 Benzene Concentration: 1.5 ug/l



67 Chlorobenzene Concentration: 315 ug/l



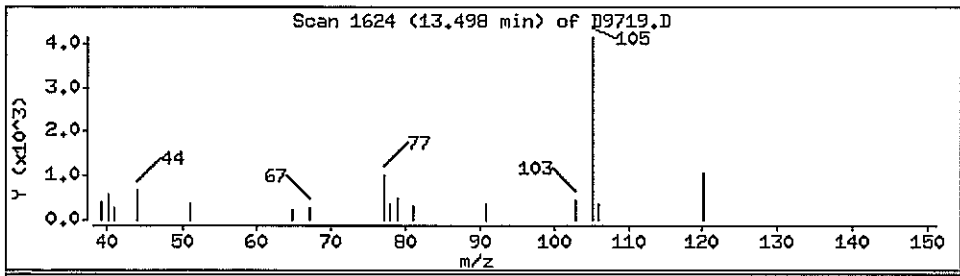
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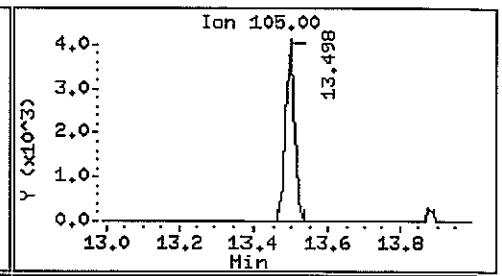
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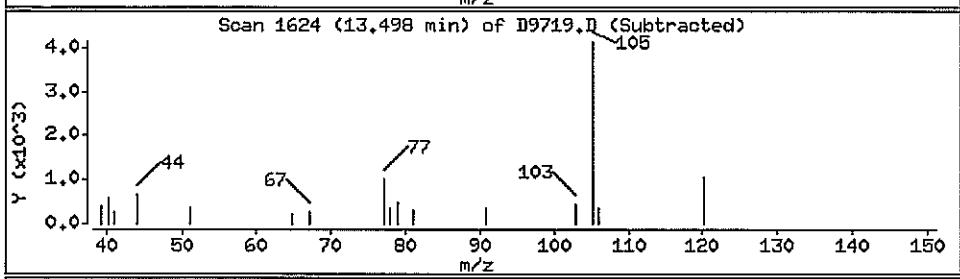
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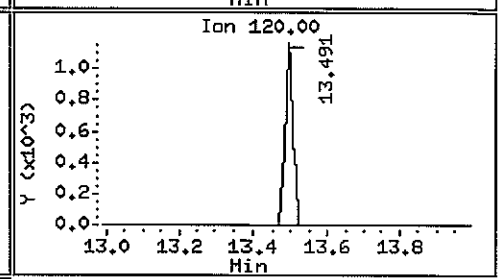
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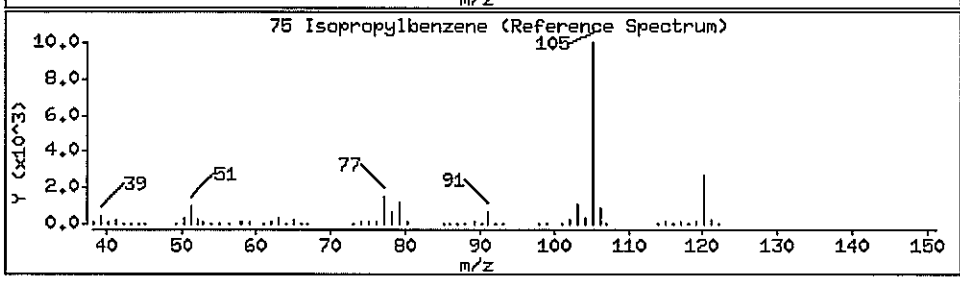
75 Isopropylbenzene Concentration: 1.4 ug/l



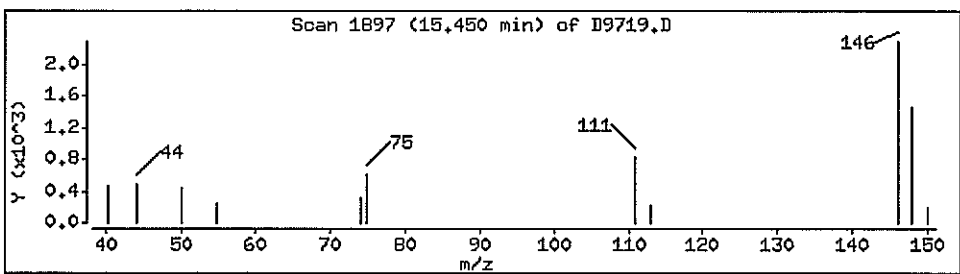


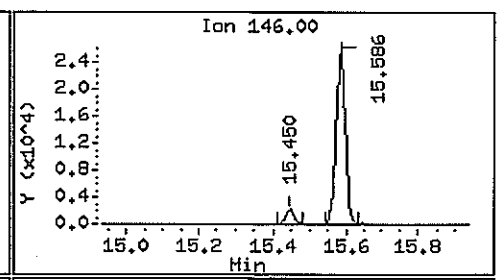


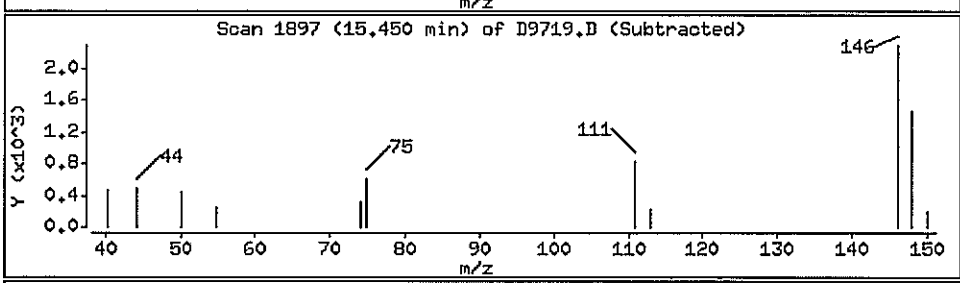


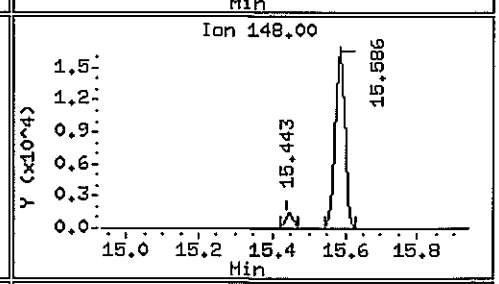


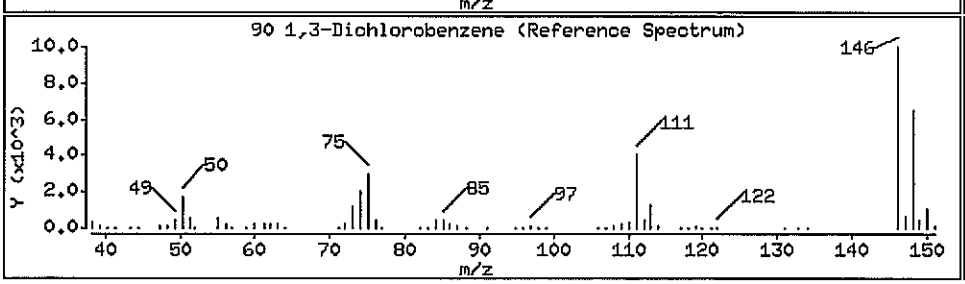
90 1,3-Dichlorobenzene Concentration: 1.4 ug/l

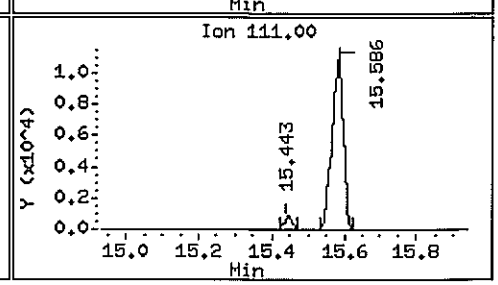












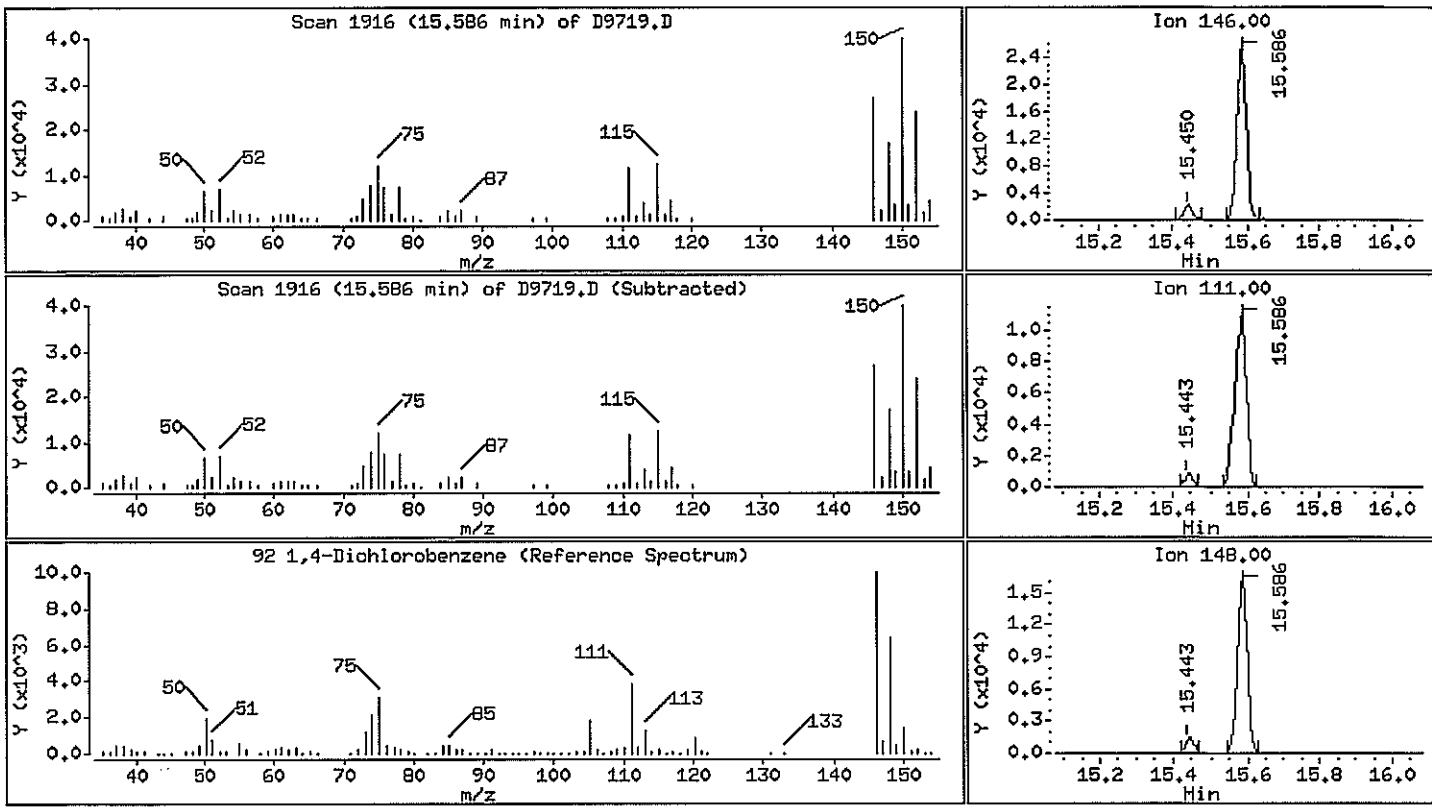
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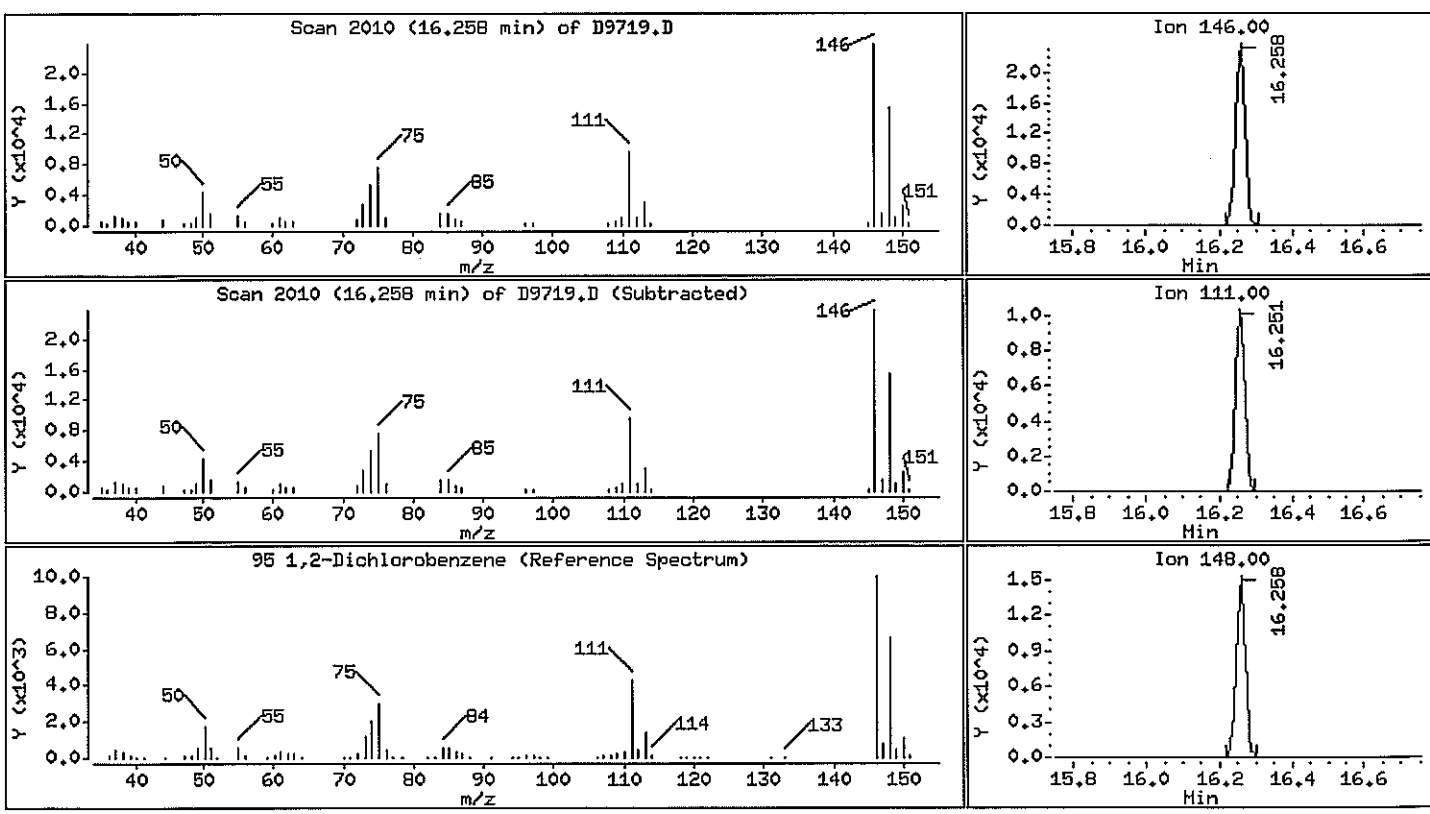
Client ID: A0C9-MW15PM04172012 Instrument: gcms-d.i

Sample Info: SF2129-8DL

92 1,4-Dichlorobenzene Concentration: 15.6 ug/l



95 1,2-Dichlorobenzene Concentration: 17.2 ug/l



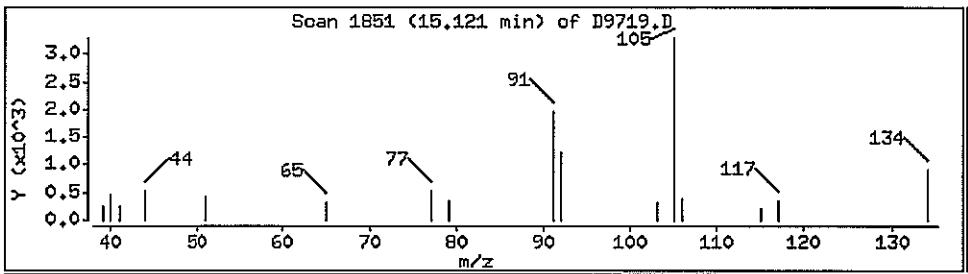
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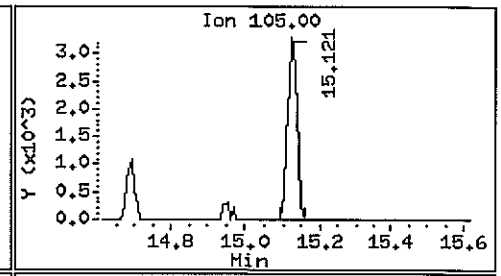
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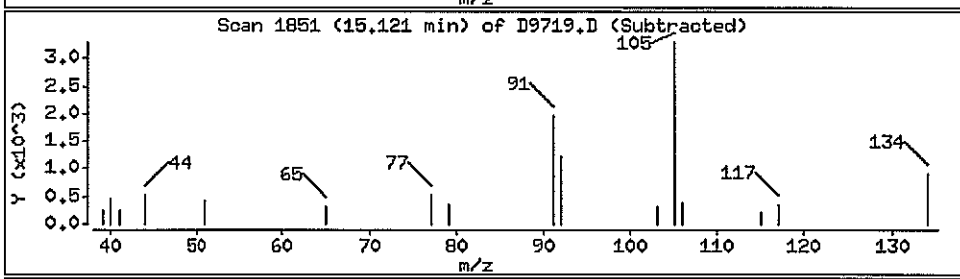
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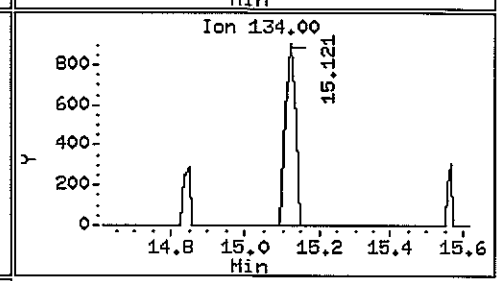
Sample Info: SF2129-8DL

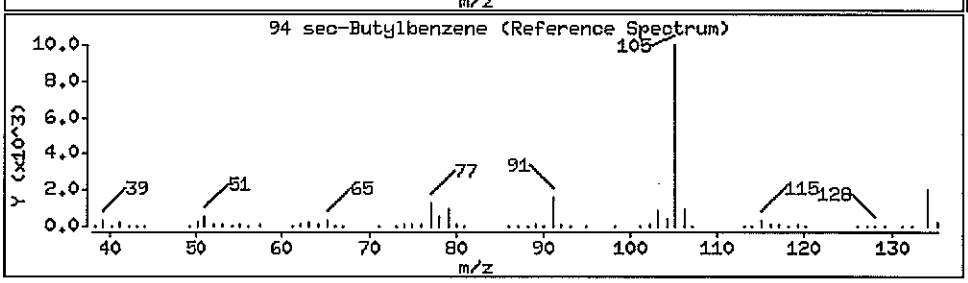
94 sec-Butylbenzene Concentration: 0.97 ug/l







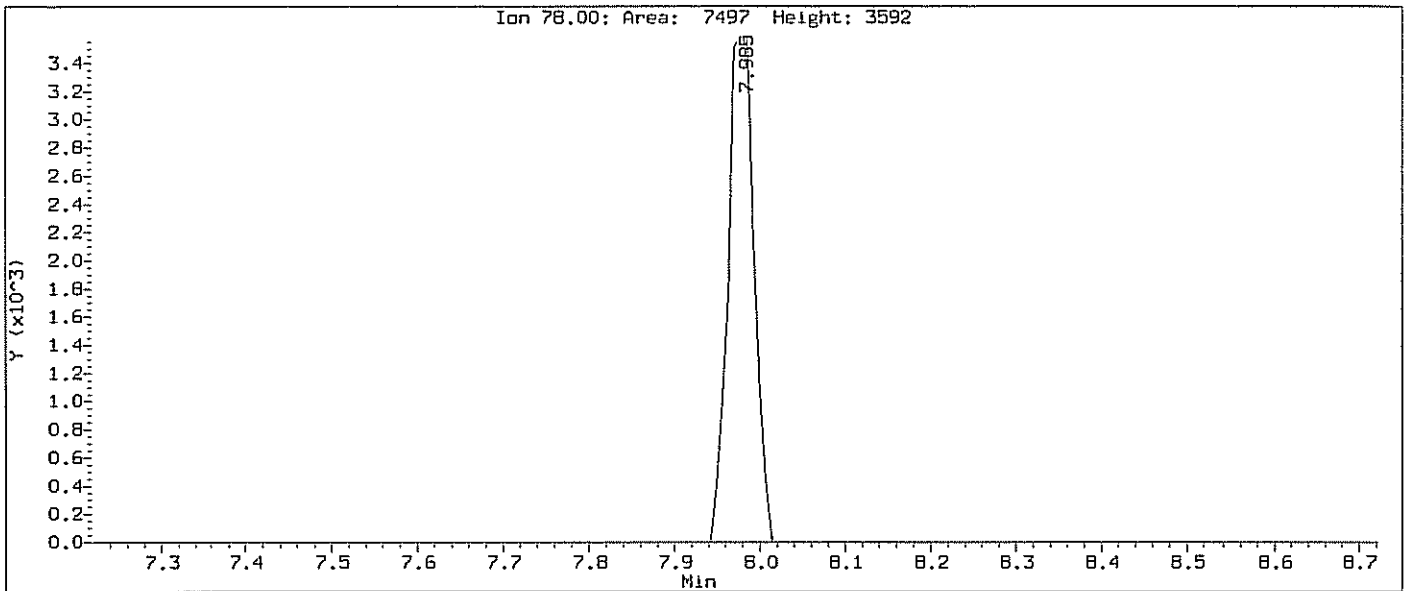


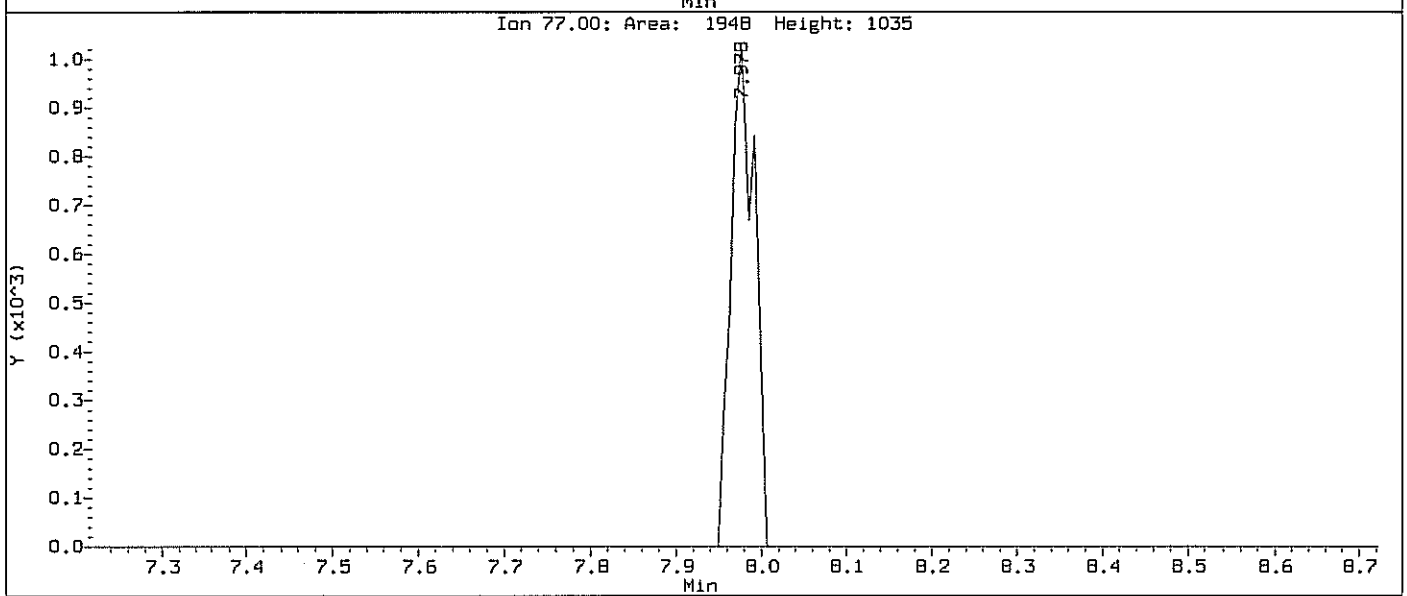


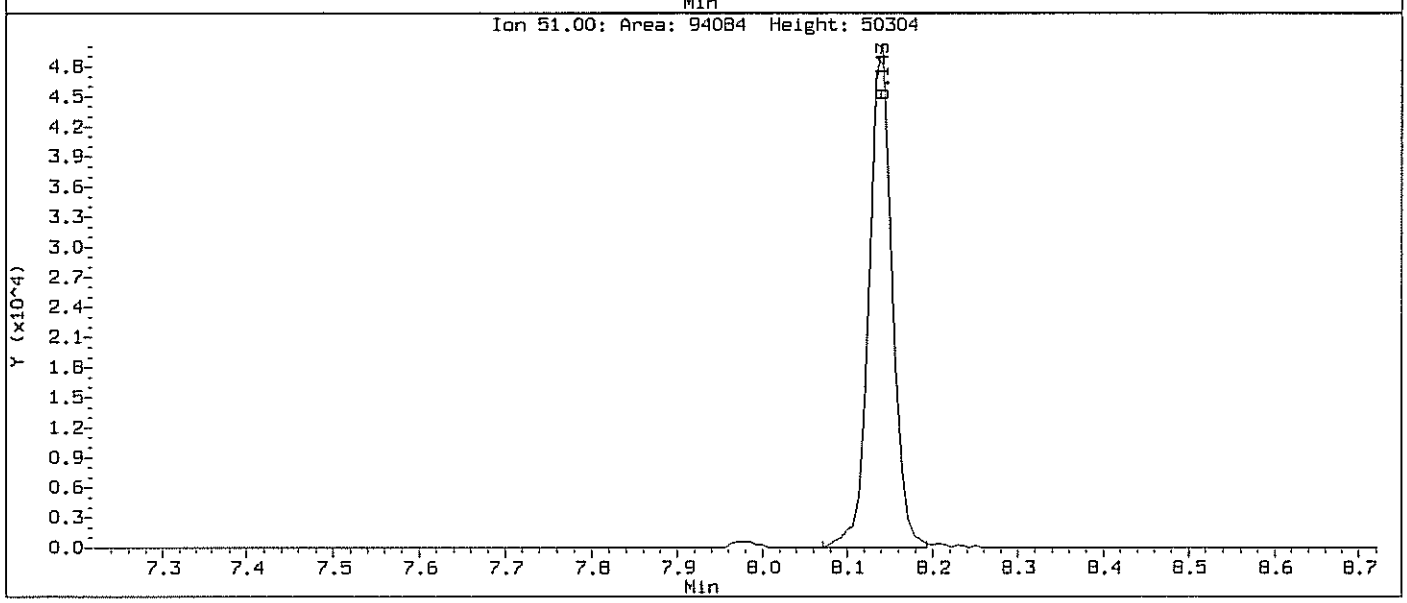
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Injection Date: 24-APR-2012 13:35
Instrument: gcms-d.i
Client Sample ID: AOC9-MW15PM04172012

Before

Compound: Benzene
CAS Number: 71-43-2



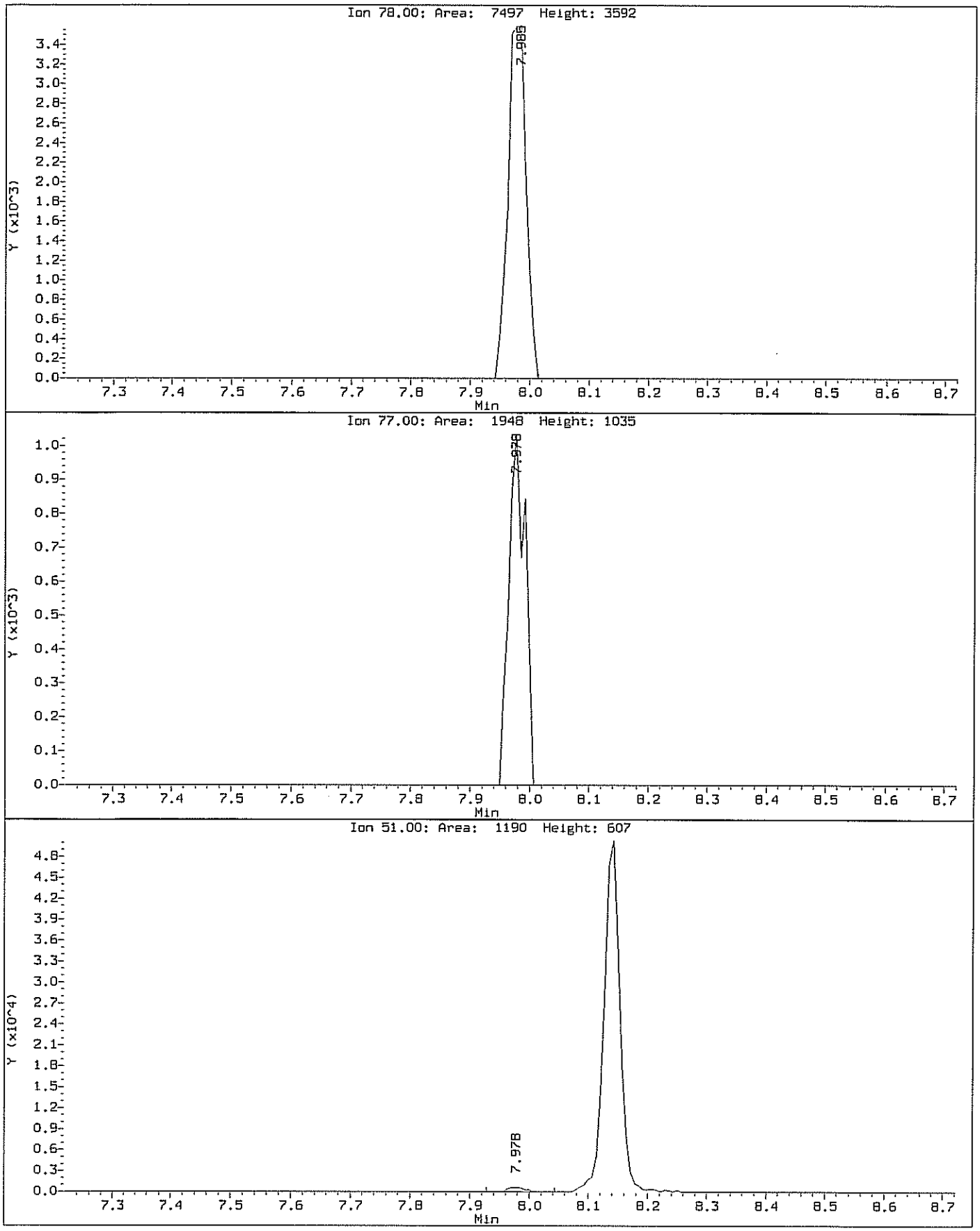




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Injection Date: 24-APR-2012 13:35
Instrument: gcms-d.i
Client Sample ID: AOC9-MW15PM04172012

Compound: Benzene
CAS Number: 71-43-2

After



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-9
Client ID: AOC9-MW14PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9726.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		1.6	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.43	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	J	0.55	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-9
Client ID: AOC9-MW14PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9726.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene		200	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	J	0.28	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	J	0.58	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.1	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		20.	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		22.	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	J	0.33	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	J	0.70	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	J	0.75	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		97.0	%					
Toluene-d8		107.	%					
P-Bromofluorobenzene		118.	%					
Dibromofluoromethane		96.2	%					

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\gcms-d.i\D042412.b\D9726.D
Report Date: 03-May-2012 09:43

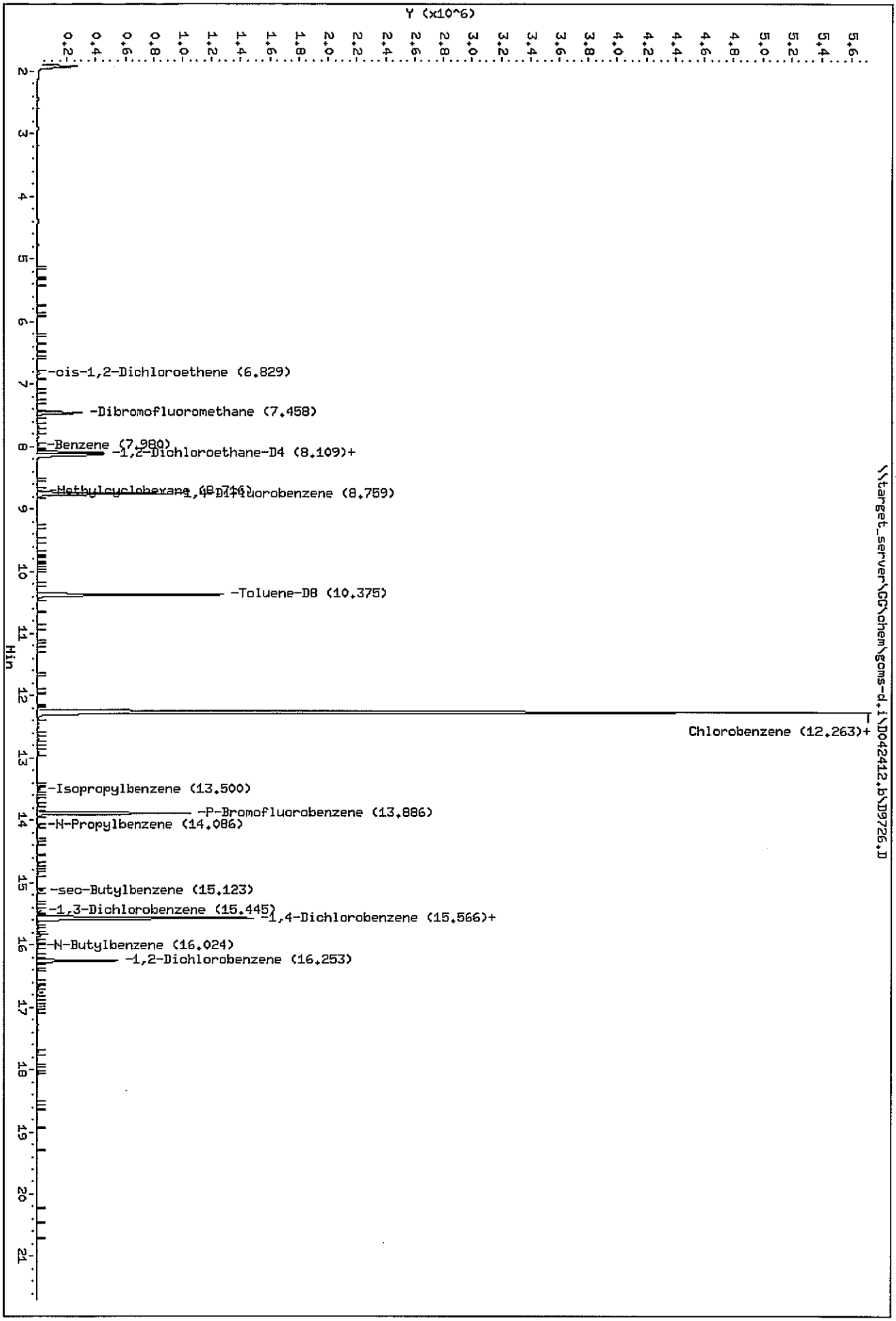
Katahdin Analytical Services

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Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ENEGFS.sub
Target Version: 4.12
Processing Host: T6-0360

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
	29 cis-1,2-Dichloroethene	96	6.836	6.828	(0.843)	7708	1.60444	1.6	
	41 Benzene	78	7.980	7.972	(0.911)	8934	0.43433	0.43(aM)	M10
	104 Methylcyclohexane	83	8.709	8.708	(1.074)	4240	0.54785	0.55(a)	MMM 5-3-12
	67 Chlorobenzene	112	12.270	12.254	(1.002)	2909323	201.630	202(A)	
	68 Ethylbenzene	106	12.305	12.297	(1.005)	2315	0.27722	0.28(a)	
	75 Isopropylbenzene	105	13.499	13.491	(0.867)	12064	0.58379	0.58(a)	
	90 1,3-Dichlorobenzene	146	15.444	15.436	(0.992)	12133	1.06484	1.1(M)	M10
	92 1,4-Dichlorobenzene	146	15.587	15.579	(1.001)	238166	19.4763	19.5	MMM 5-3-12
	95 1,2-Dichlorobenzene	146	16.259	16.251	(1.045)	235007	22.4059	22.4	
	93 N-Butylbenzene	91	16.023	16.015	(1.029)	6815	0.32920	0.33(a)	
	80 N-Propylbenzene	91	14.093	14.078	(0.905)	20687	0.70434	0.70(a)	
	94 sec-Butylbenzene	105	15.123	15.115	(0.972)	19964	0.75456	0.75(a)	
$	37 Dibromofluoromethane	113	7.458	7.457	(0.920)	179988	48.1192	48.1	
$	45 1,2-Dichloroethane-D4	65	8.144	8.135	(1.004)	213107	48.4801	48.5	
$	55 Toluene-D8	98	10.375	10.374	(1.184)	850102	53.3774	53.4	
$	76 P-Bromofluorobenzene	95	13.886	13.878	(1.585)	370717	59.1477	59.1	
*	42 Pentafluorobenzene	168	8.108	8.100	(1.000)	384529	50.0000		
*	49 1,4-Difluorobenzene	114	8.759	8.751	(1.000)	722471	50.0000		
*	66 Chlorobenzene-D5	117	12.248	12.233	(1.000)	760511	50.0000		
*	91 1,4-Dichlorobenzene-D4	152	15.566	15.558	(1.000)	391035	50.0000		



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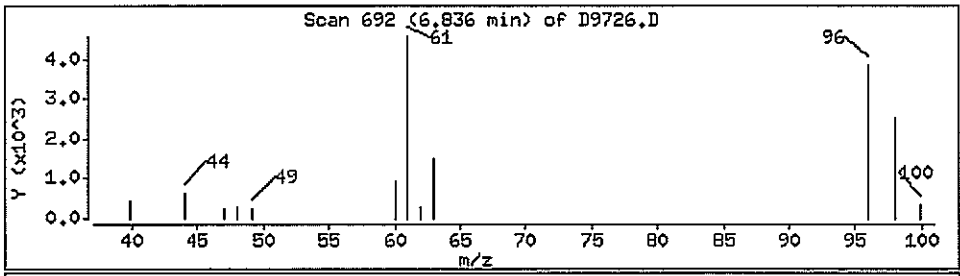
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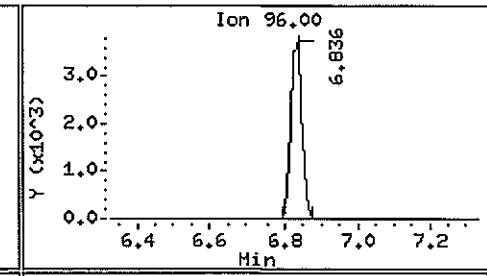
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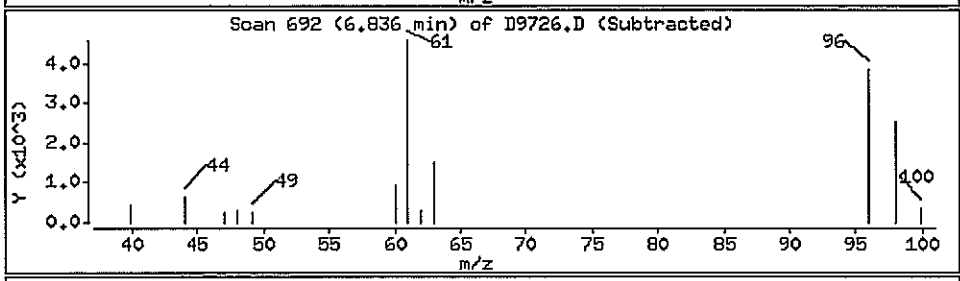
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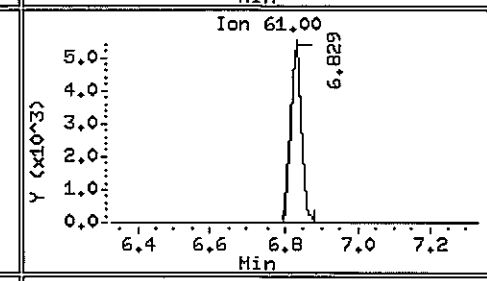
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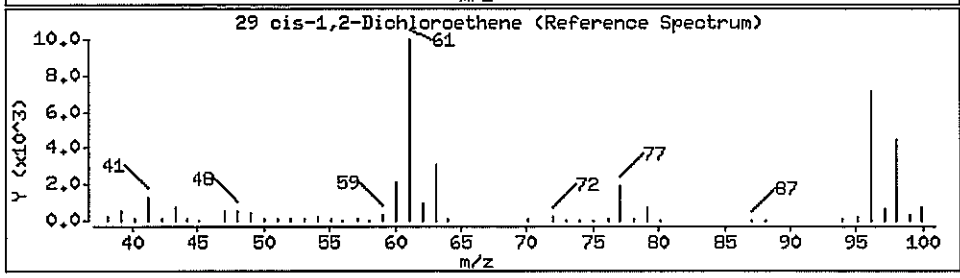
29 cis-1,2-Dichloroethene Concentration: 1.6 ug/l

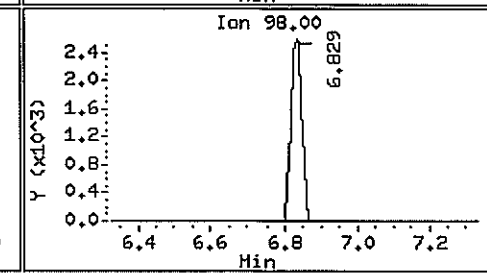




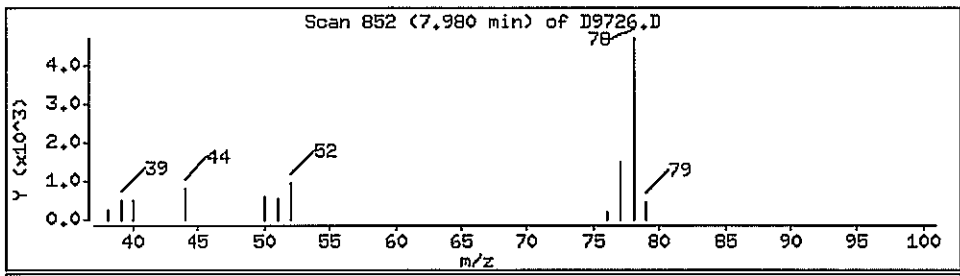


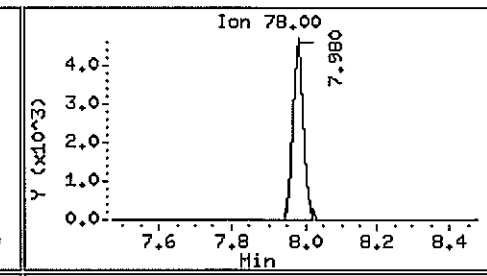


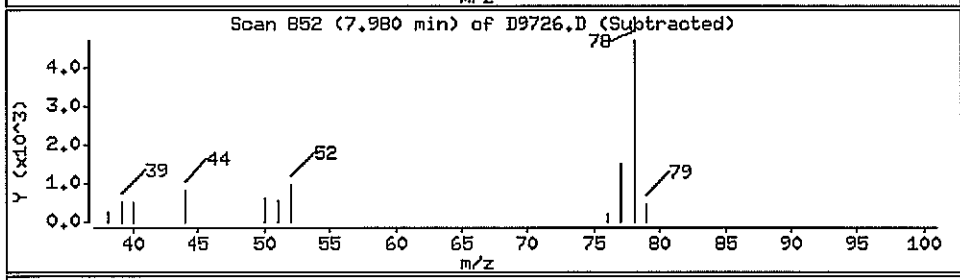


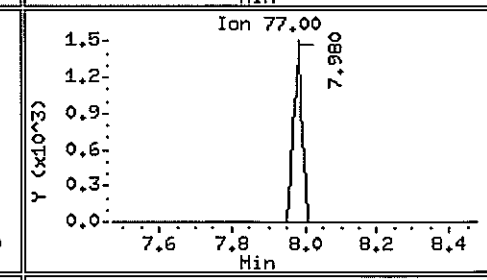


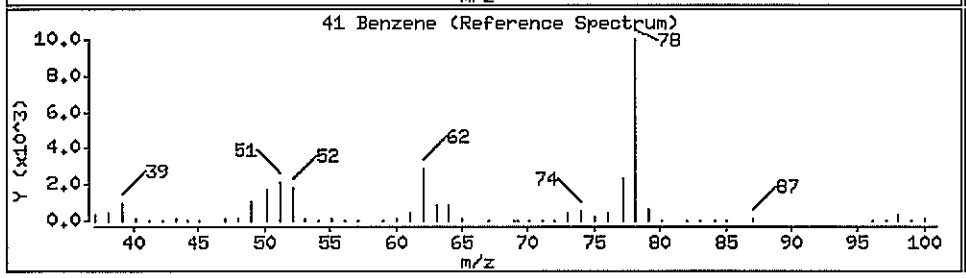
41 Benzene Concentration: 0.43 ug/l

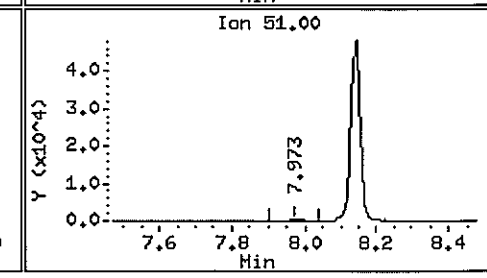












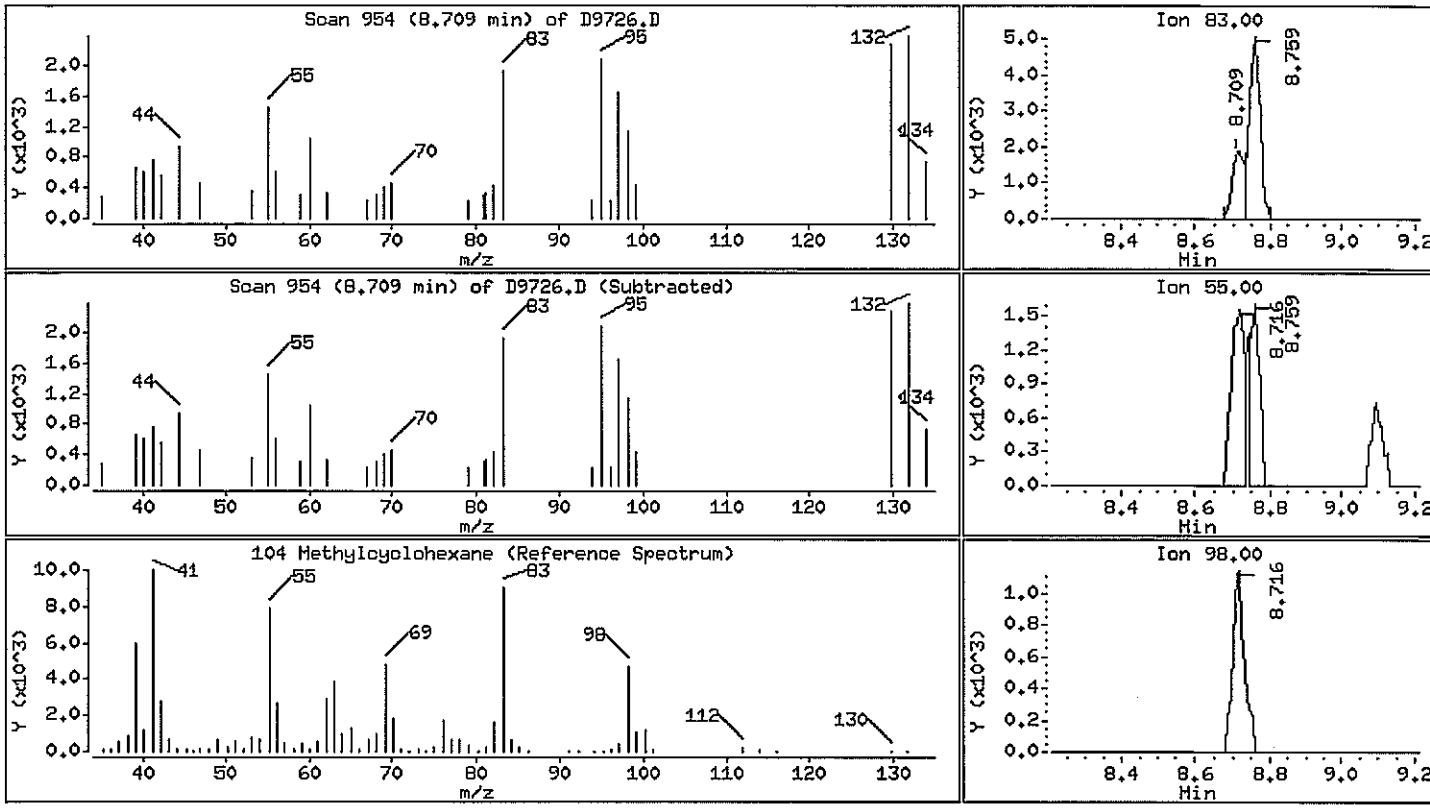
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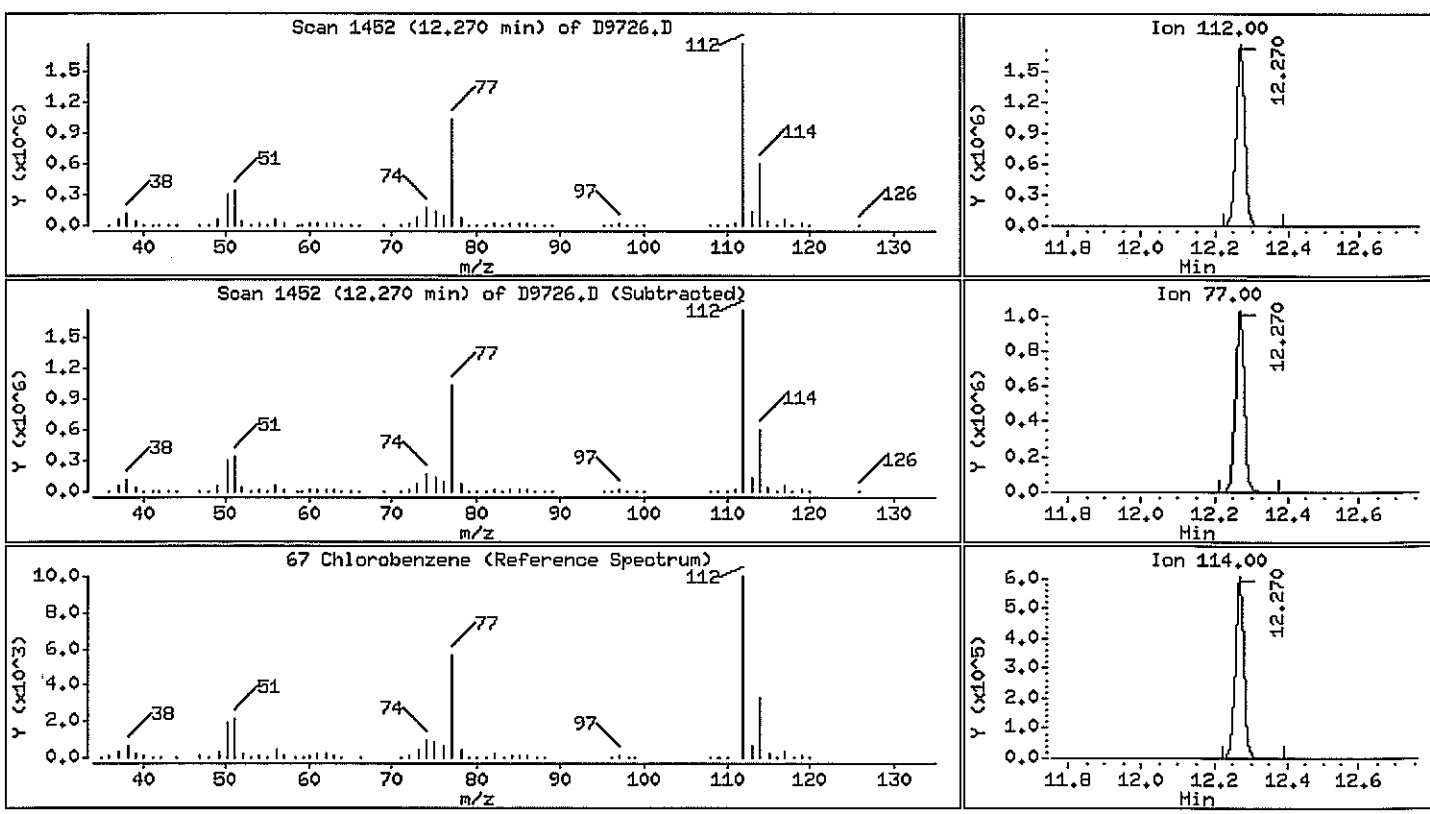
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Sample Info: SF2129-9

104 Methylcyclohexane Concentration: 0.55 ug/l



67 Chlorobenzene Concentration: 202 ug/l



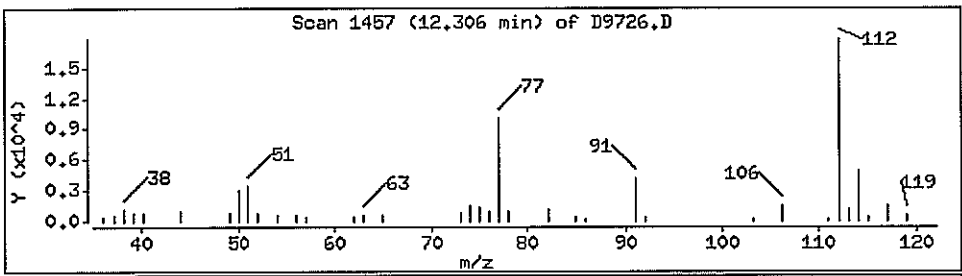
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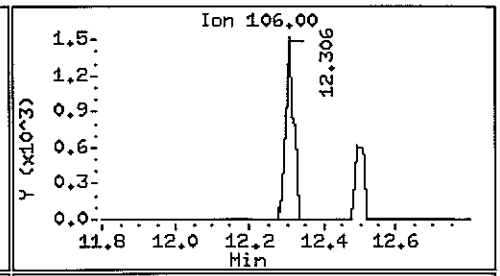
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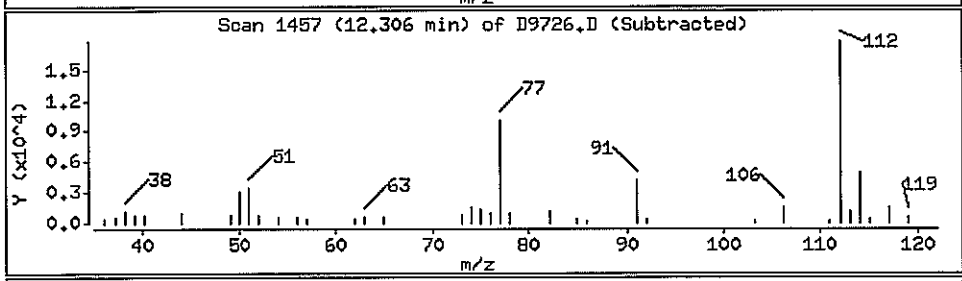
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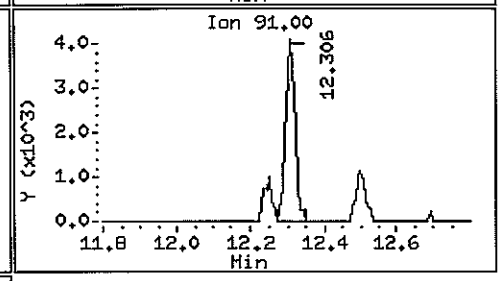
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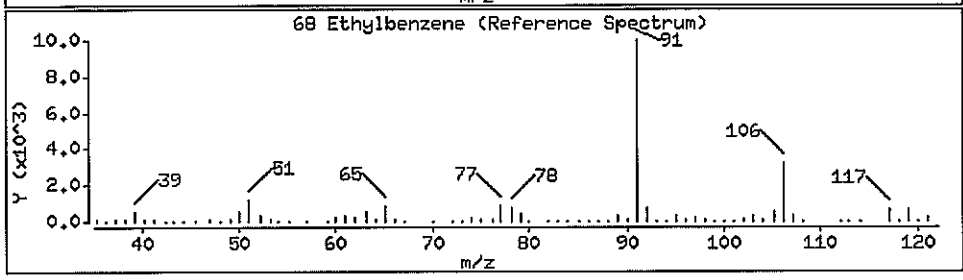
68 Ethylbenzene Concentration: 0.28 ug/l



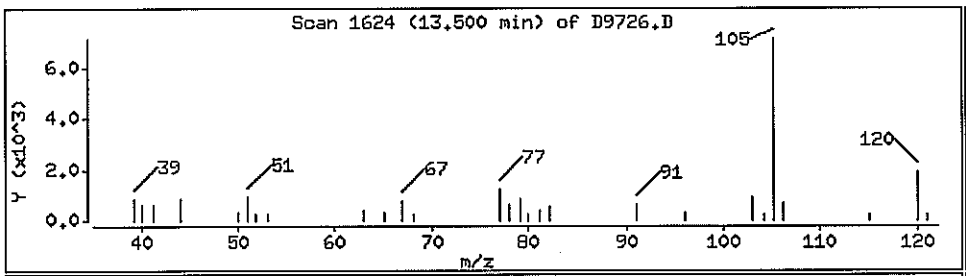


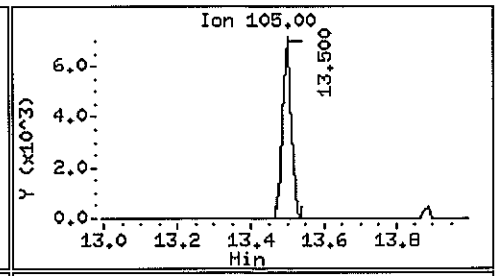


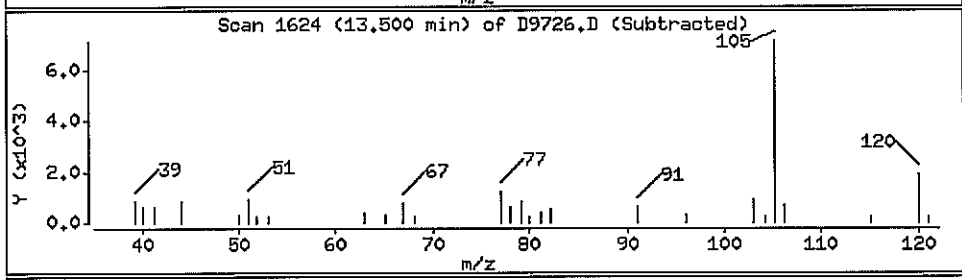


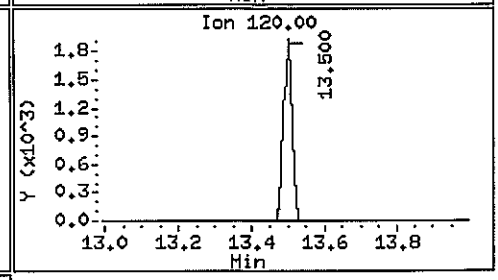


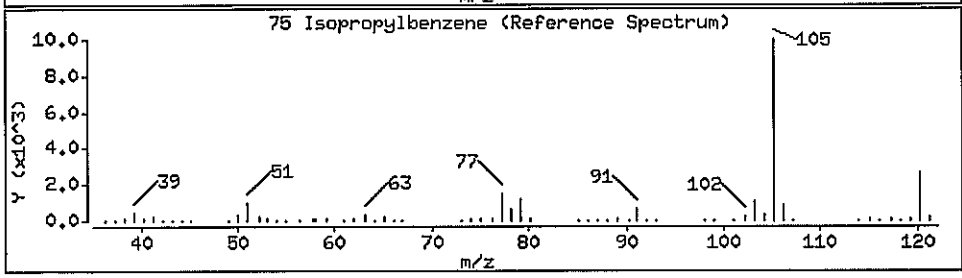
75 Isopropylbenzene Concentration: 0.58 ug/l











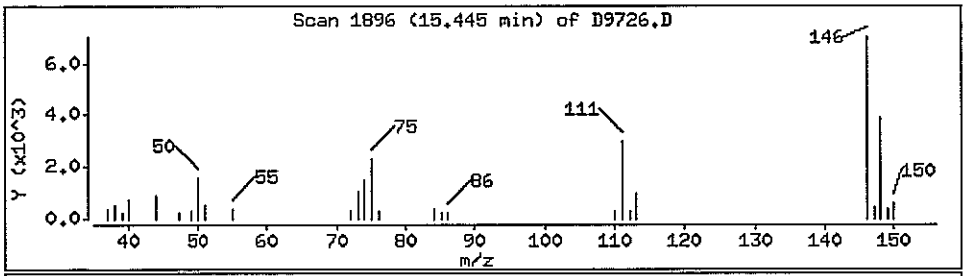
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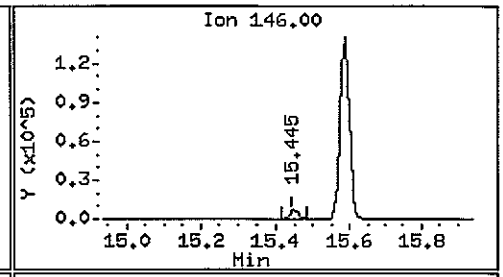
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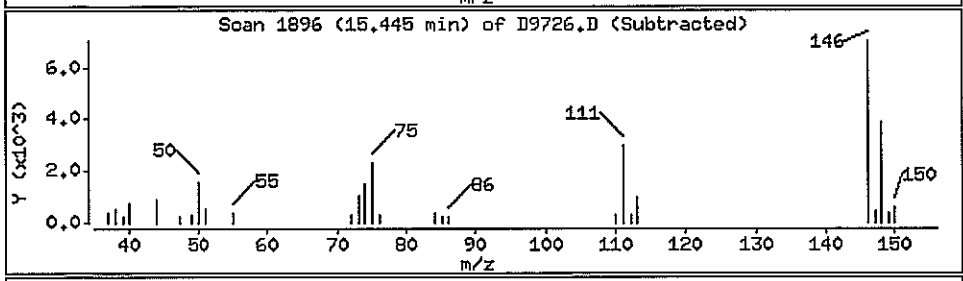
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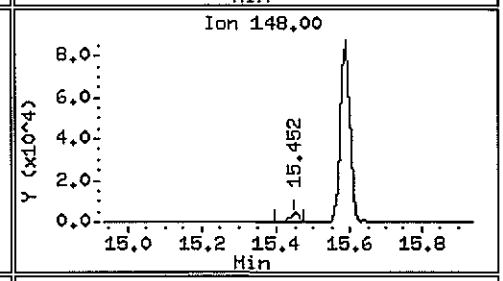
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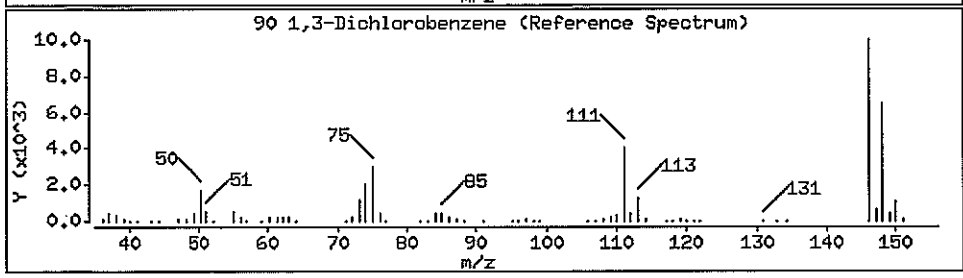
90 1,3-Dichlorobenzene Concentration: 1.1 ug/l

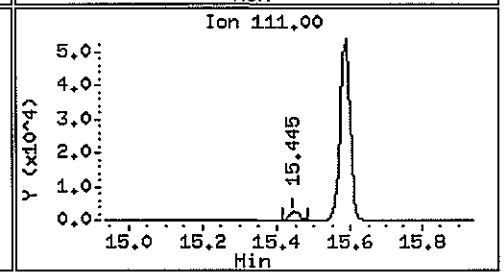




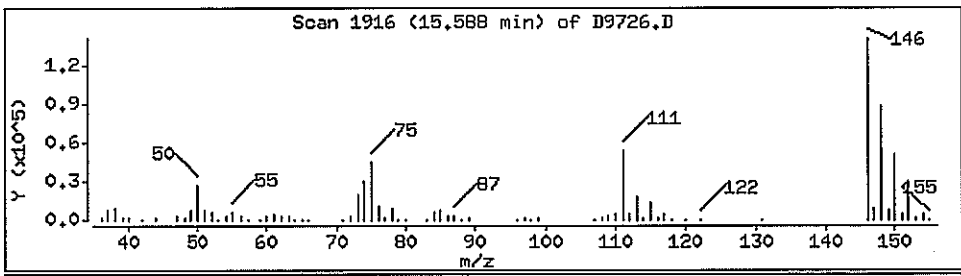


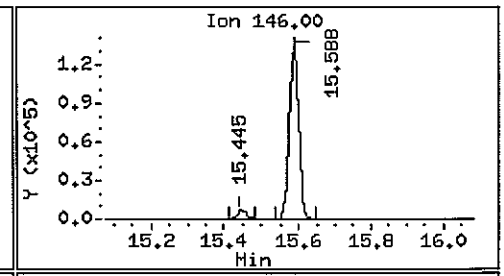


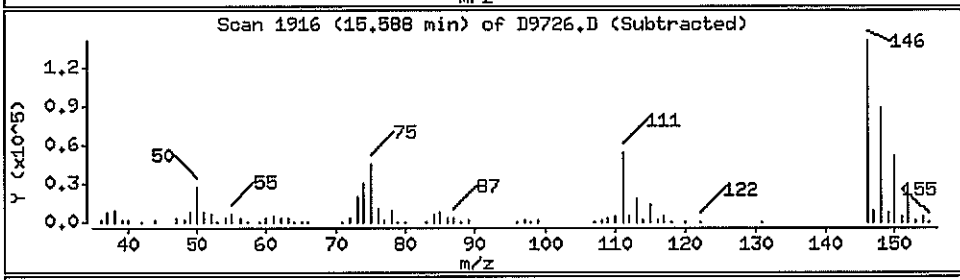


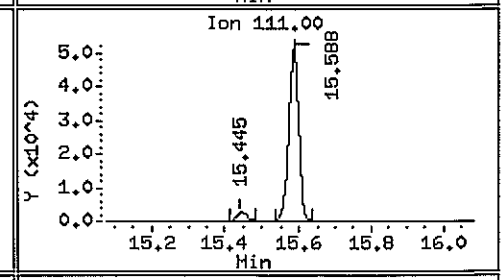


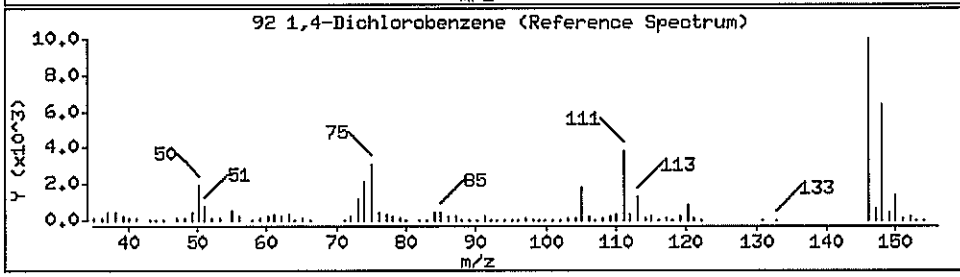
92 1,4-Dichlorobenzene Concentration: 19.5 ug/l

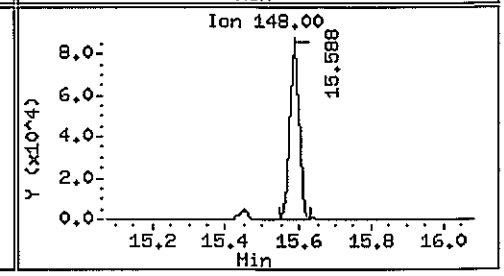












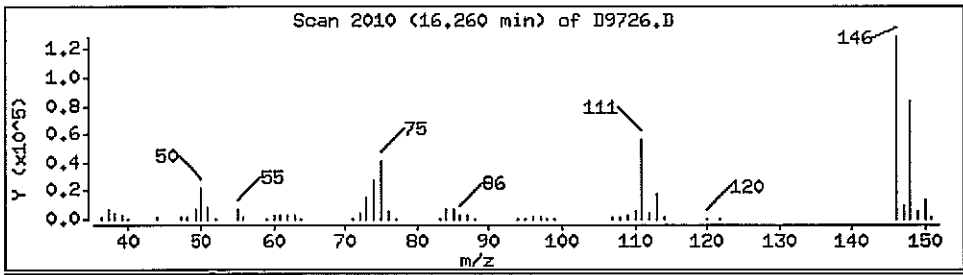
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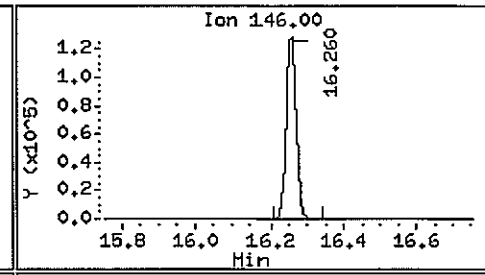
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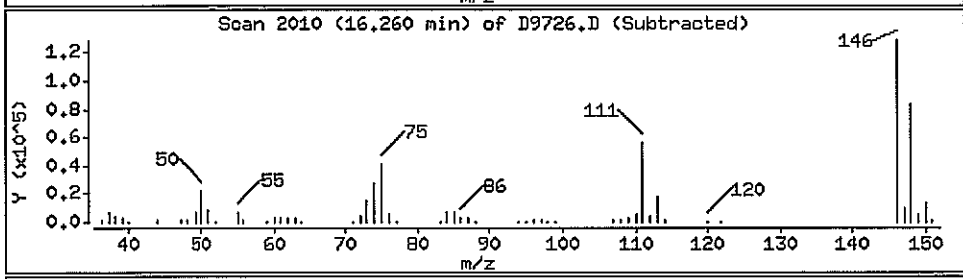
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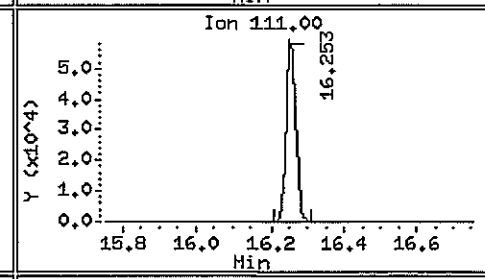
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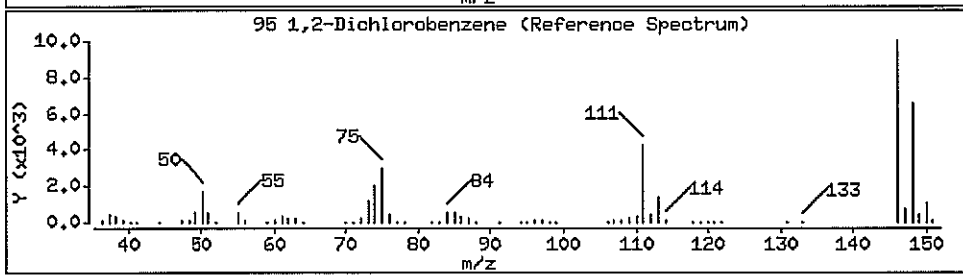
95 1,2-Dichlorobenzene Concentration: 22.4 ug/l

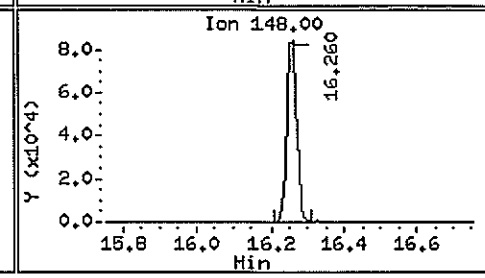




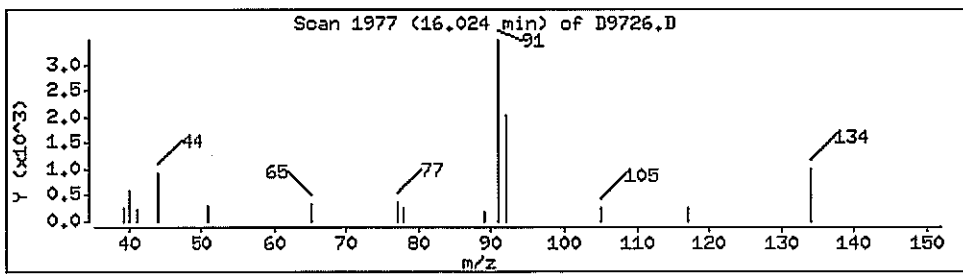


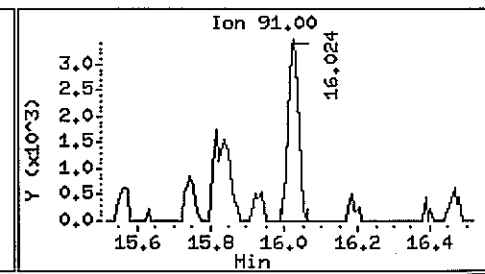


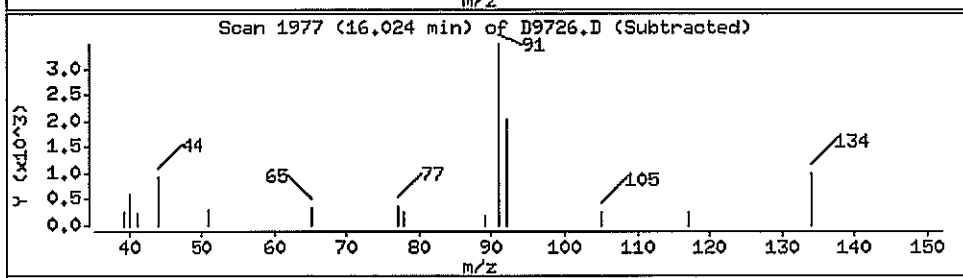


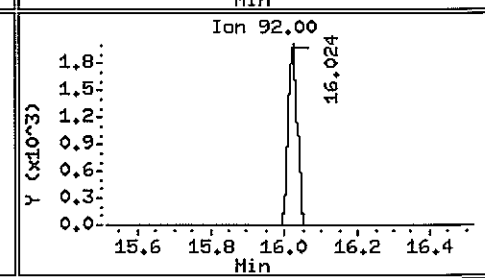


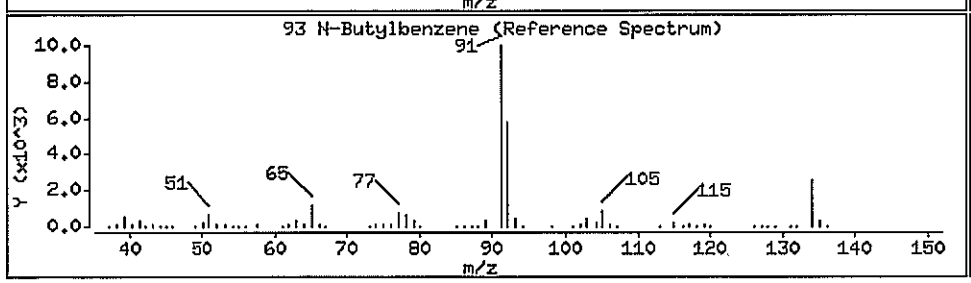
93 N-Butylbenzene Concentration: 0.33 ug/l

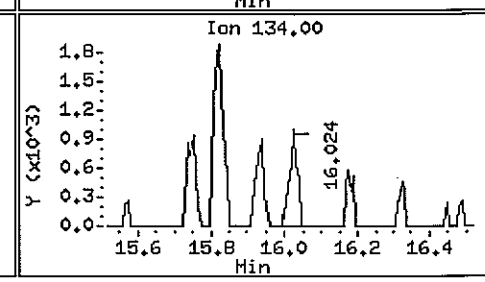












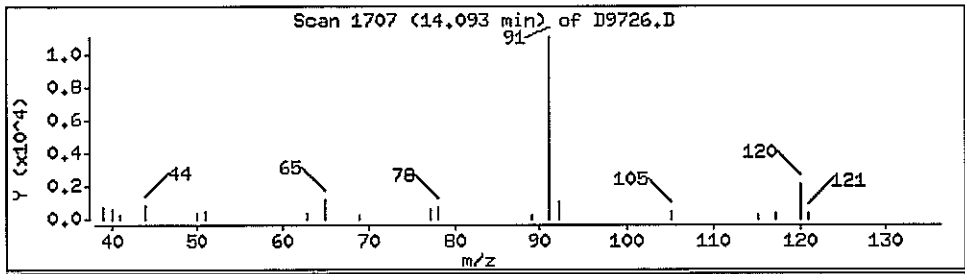
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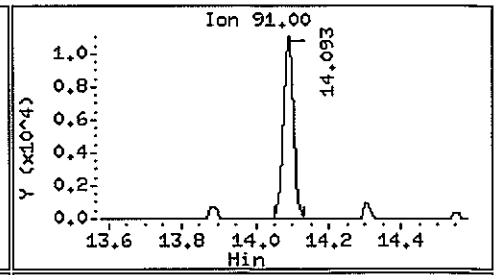
Date : 24-APR-2012 16:53

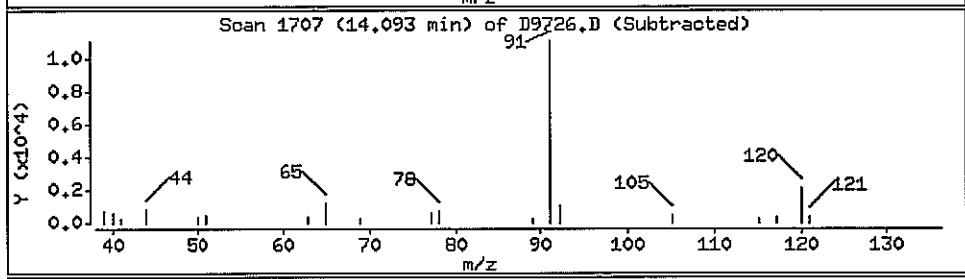
Client ID: A0C9-MW14PM04172012 Instrument: gcms-d.i

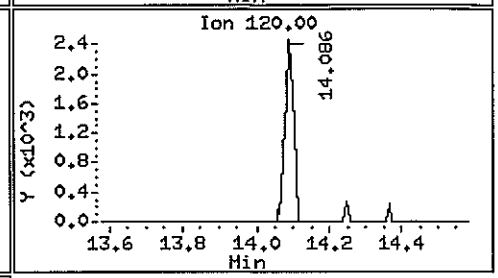
Sample Info: SF2129-9

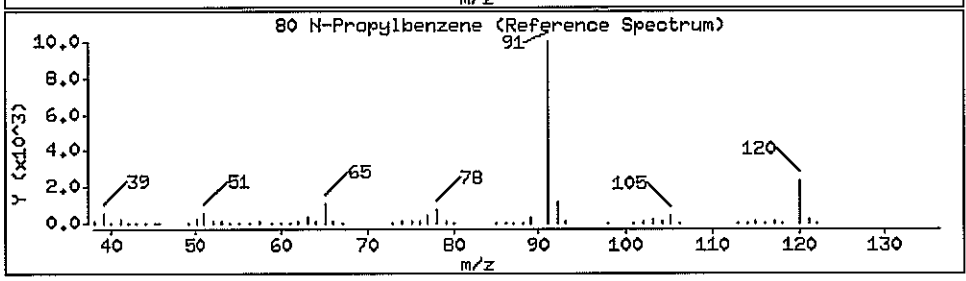
80 N-Propylbenzene Concentration: 0.70 ug/l



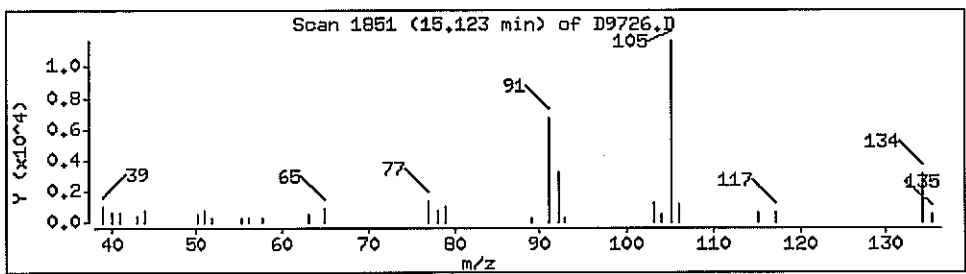


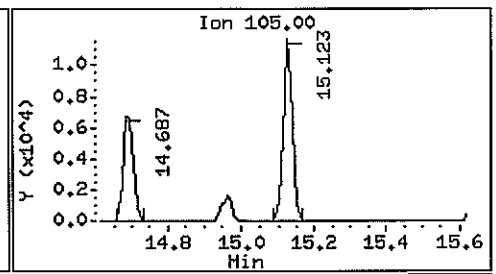


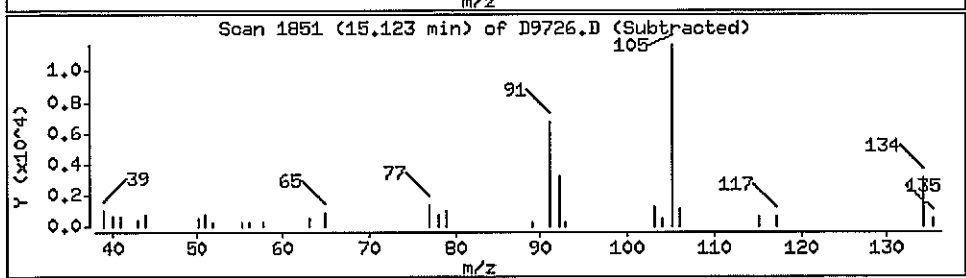


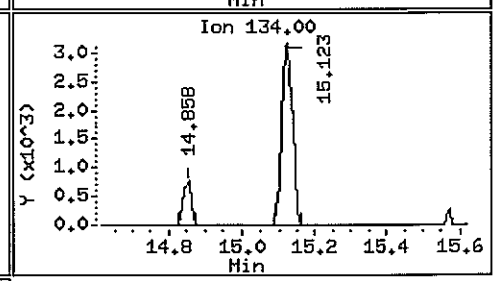


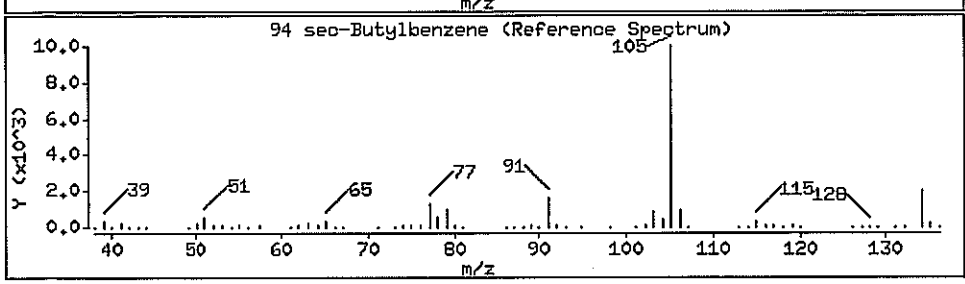
94 sec-Butylbenzene Concentration: 0.75 ug/l







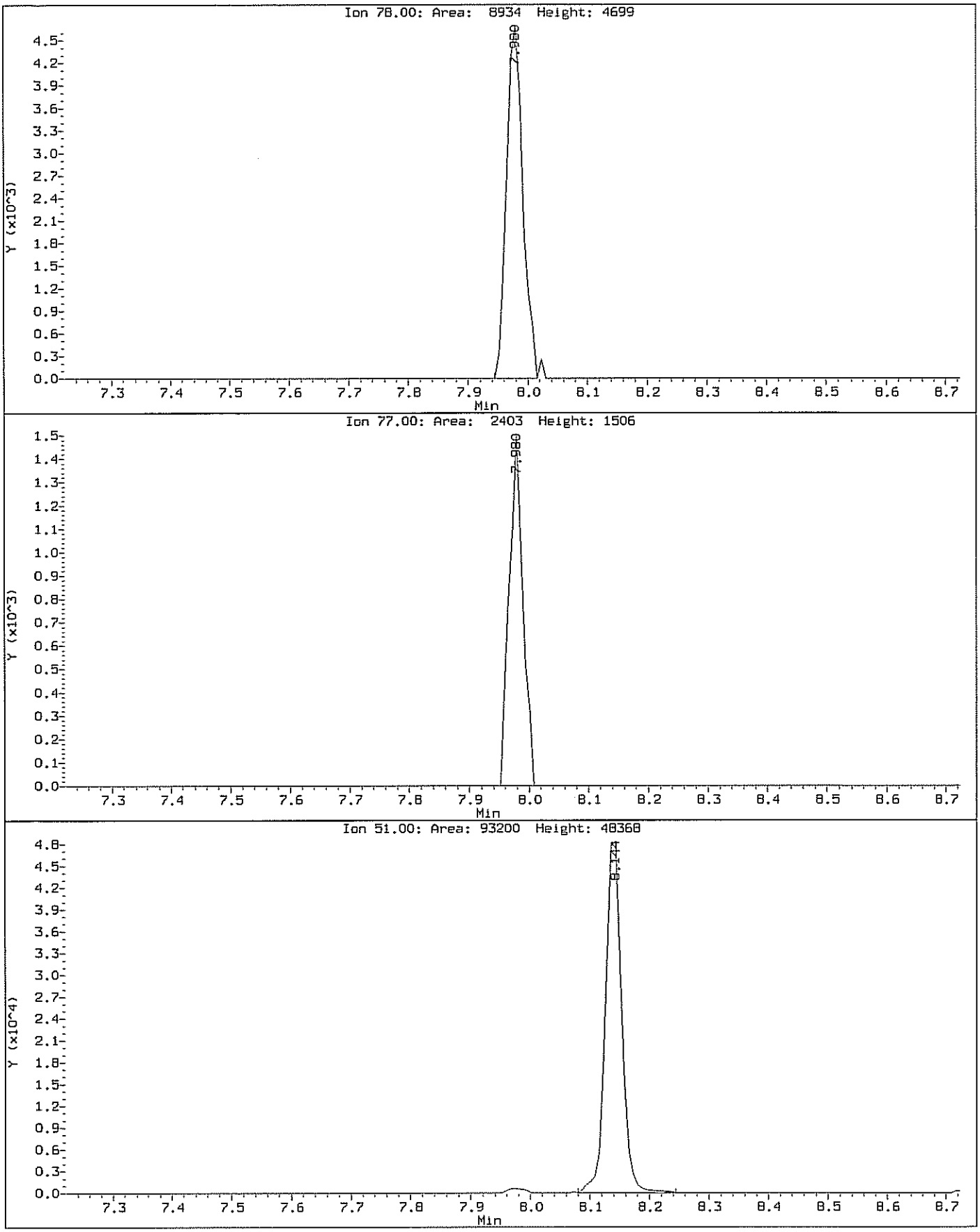




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Injection Date: 24-APR-2012 16:53
Instrument: gcms-d.i
Client Sample ID: AOC9-MW14PM04172012

Before

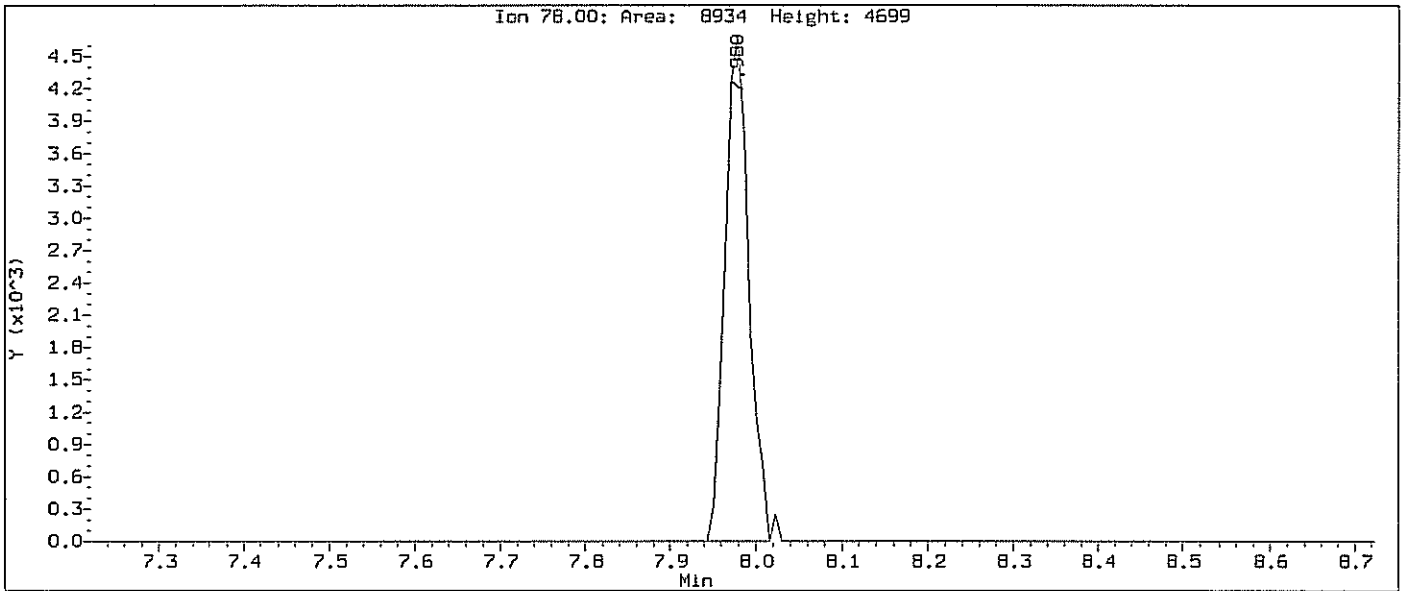
Compound: Benzene
CAS Number: 71-43-2

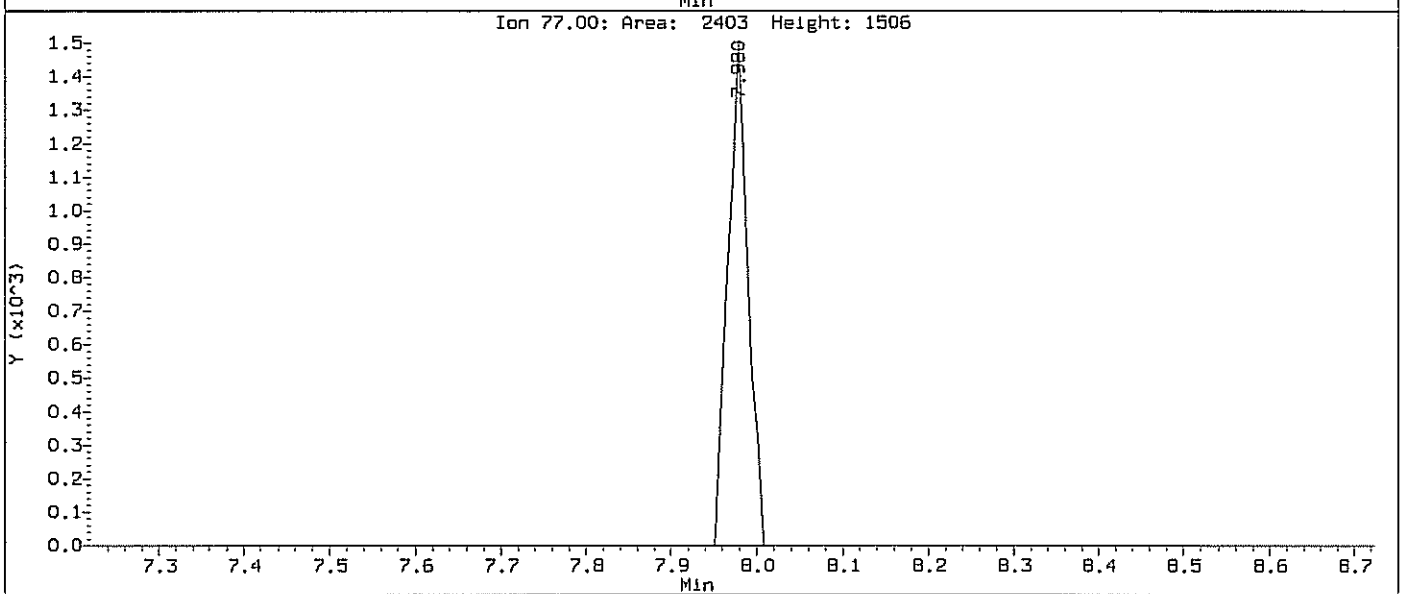


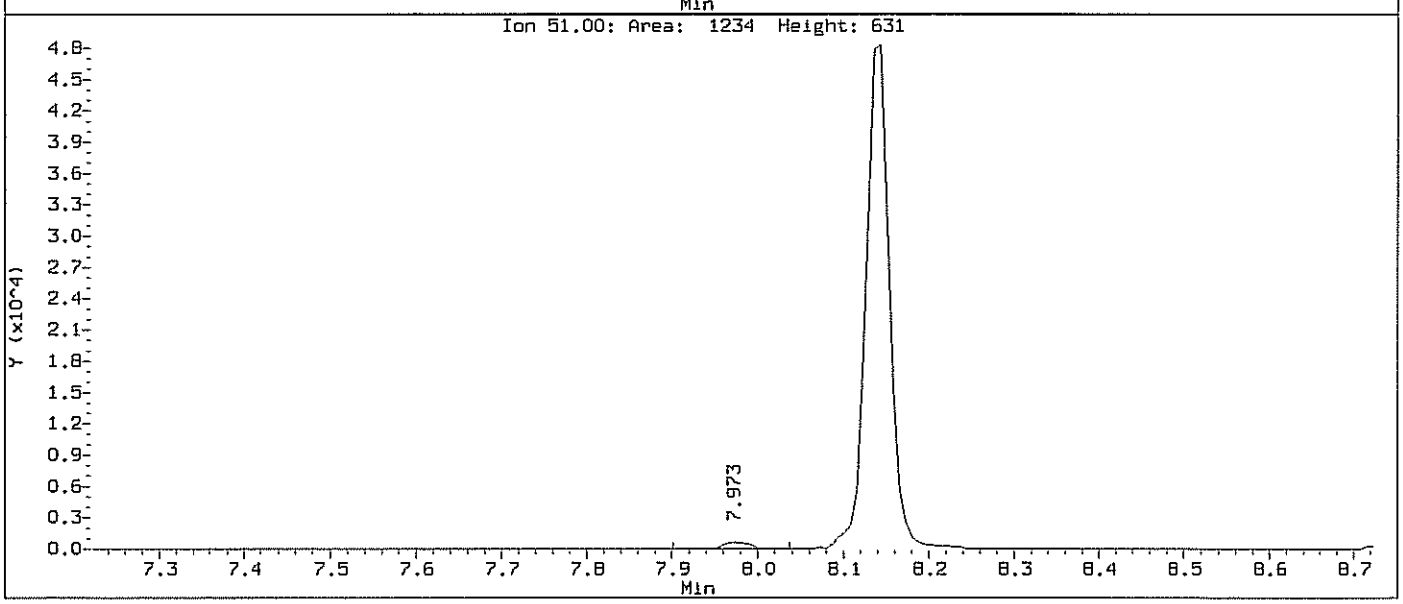
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Injection Date: 24-APR-2012 16:53
Instrument: gcms-d.i
Client Sample ID: AOC9-MW14PM04172012

After

Compound: Benzene
CAS Number: 71-43-2



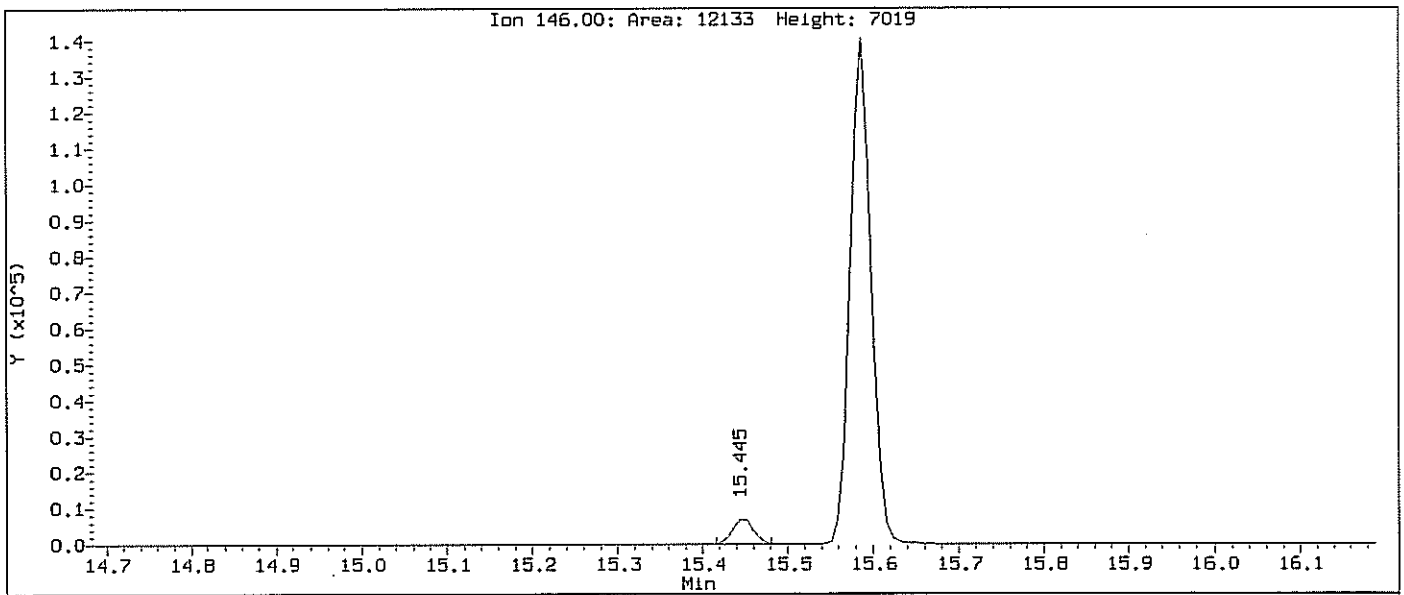


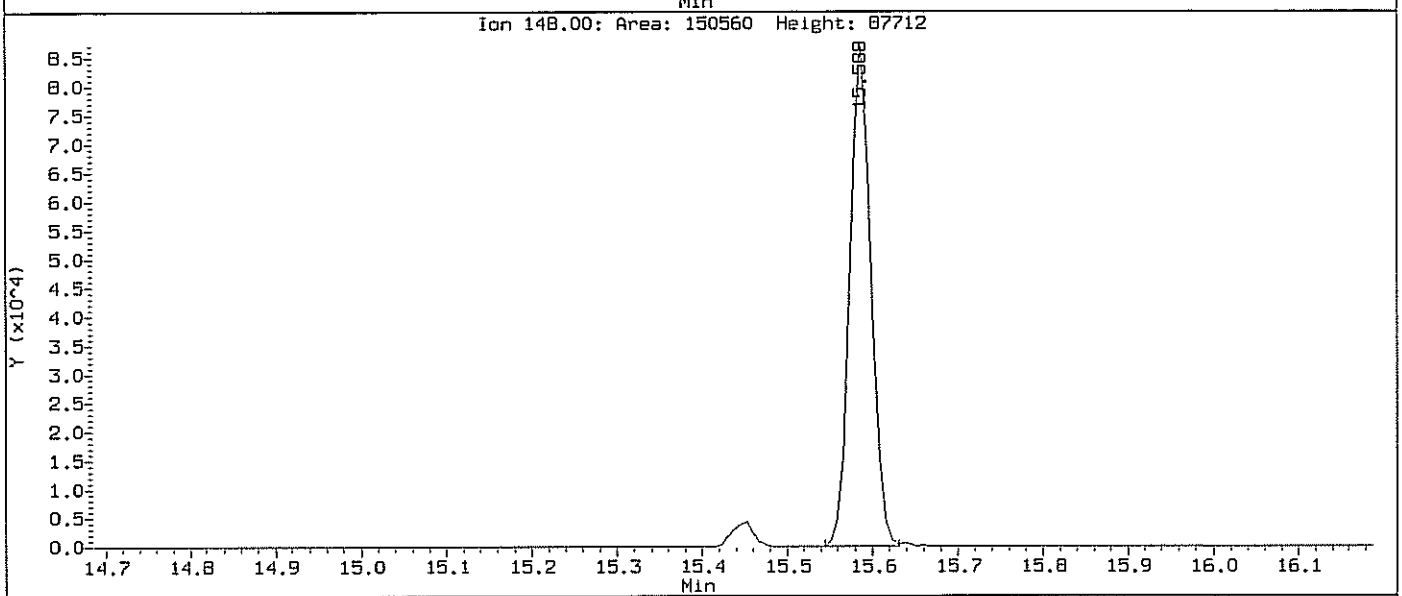


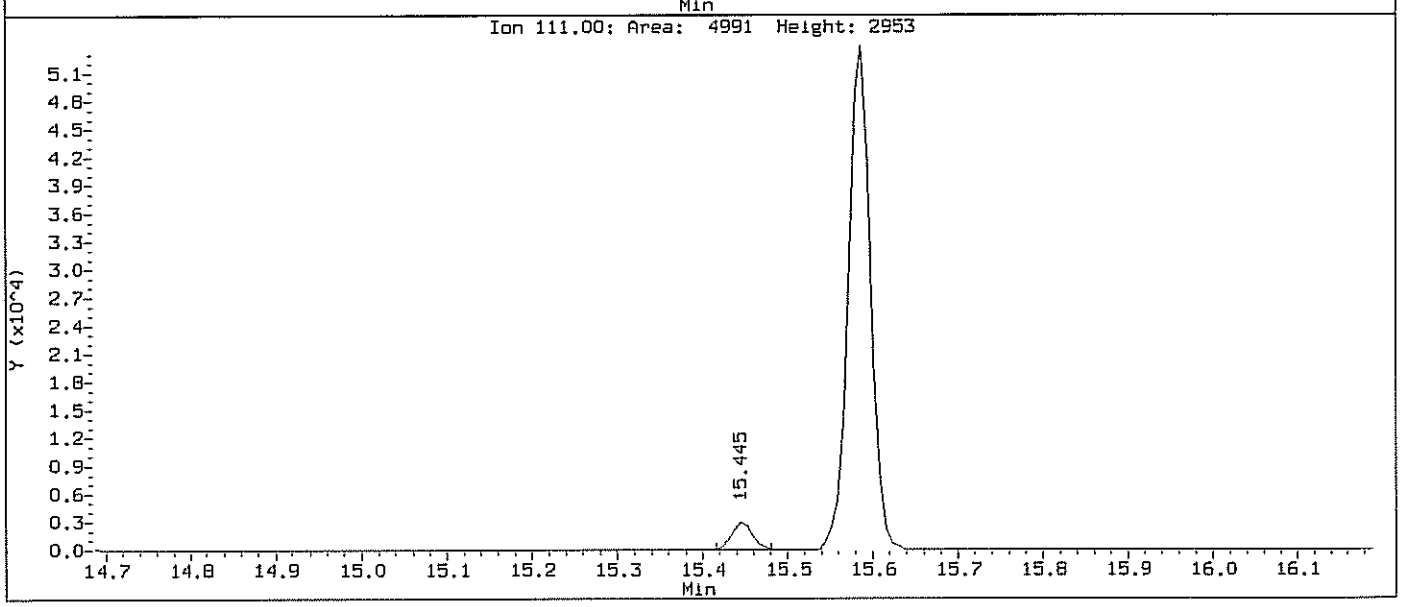
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Instrument: gcms-d.i
Client Sample ID: ADC9-MW14PM04172012

Before

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1



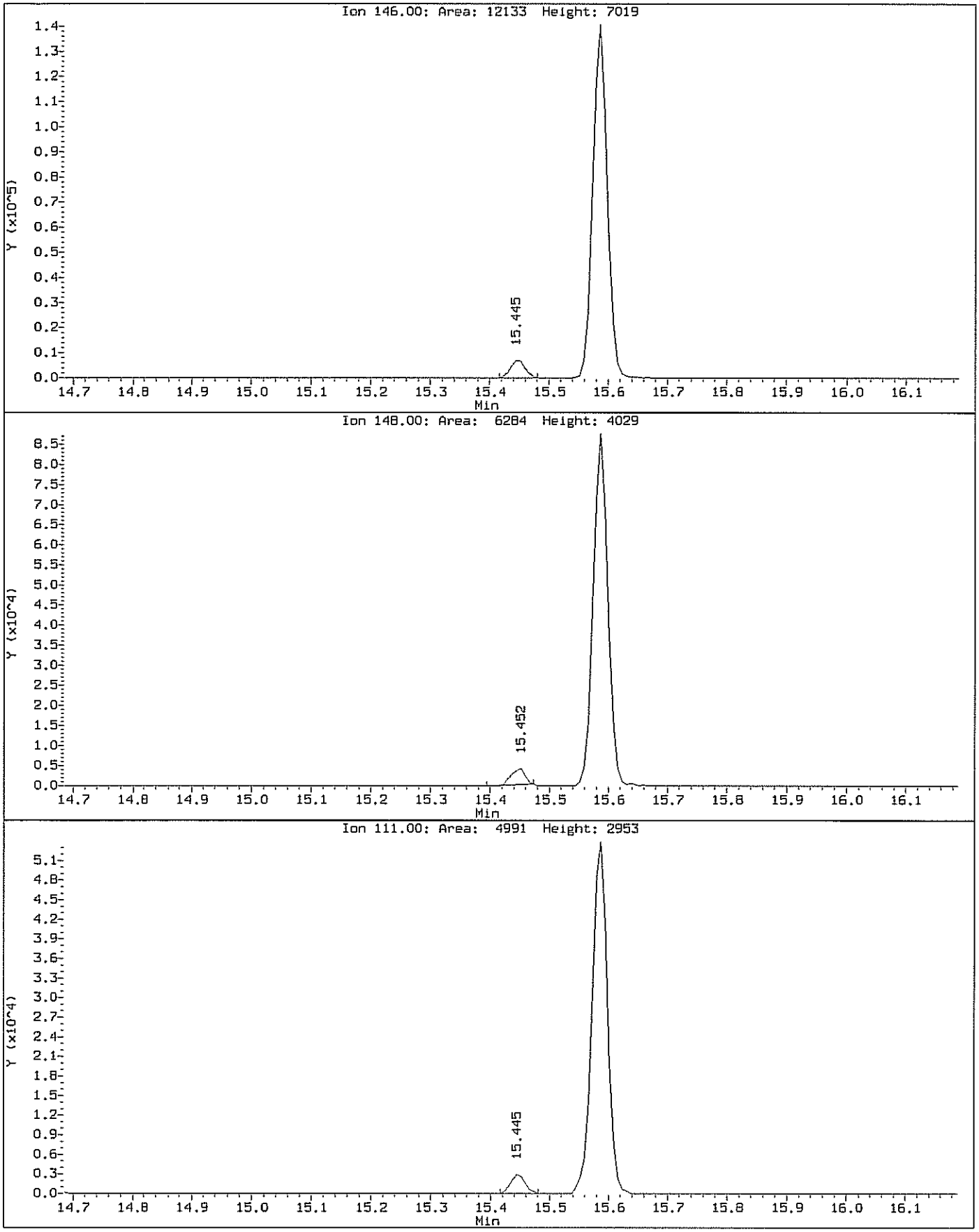




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Injection Date: 24-APR-2012 16:53
Instrument: gcms-d.i
Client Sample ID: ADC9-MW14PM04172012

After

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-10
Client ID: AOC9-MW19PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9693.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride		2.9	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		12.	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.90	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF2129-10
Client ID: AOC9-MW19PM041720
Project: Former Griffiss Air Force Bas
SDG: SF2129
Lab File ID: D9693.D

Sample Date: 17-APR-12
Received Date: 18-APR-12
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene		33.	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		4.5	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		3.8	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		108.	%					
Toluene-d8		109.	%					
P-Bromofluorobenzene		115.	%					
Dibromofluoromethane		105.	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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Data File: \\target_server\GG\chem\gcms-d.i\D042312.b\D9693.D
Report Date: 01-May-2012 16:04

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D042312.b\D9693.D
Lab Smp Id: SF2129-10 Client Smp ID: AOC9-MW19PM04172012
Inj Date : 23-APR-2012 18:04 MS Autotune Date: 05-MAR-2010 09:29
Operator : MMM Inst ID: gcms-d.i
Smp Info : SF2129-10
Misc Info : WG107276,WG107009-4
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-d.i\D042312.b\D826A91.m
Meth Date : 01-May-2012 15:50 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ENEGFS.sub
Target Version: 4.12
Processing Host: T6-0360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

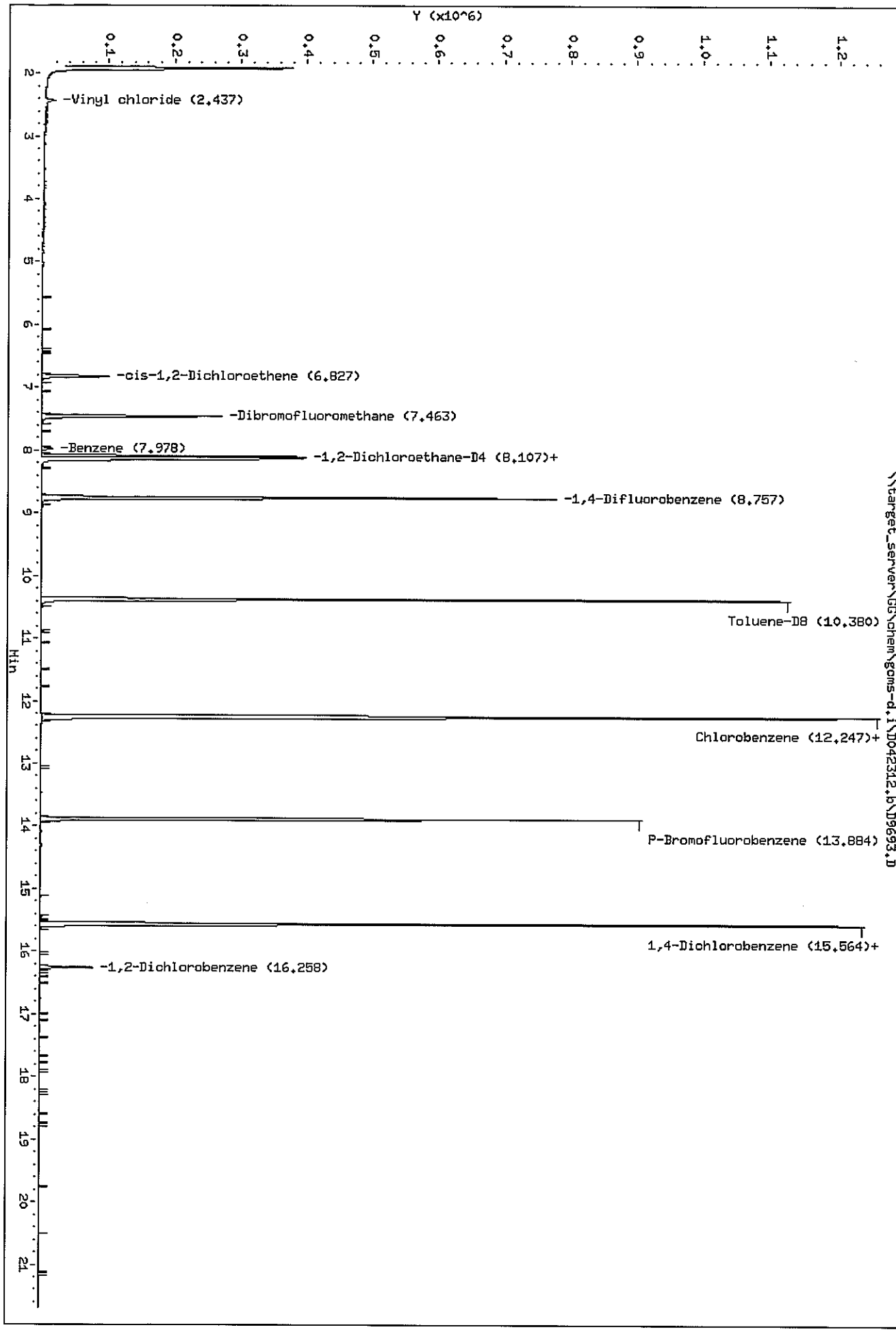
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
3	Vinyl chloride	62	2.436	2.437	(0.301)	17179	2.94291	2.9	
29	cis-1,2-Dichloroethene	96	6.833	6.828	(0.843)	46252	11.6475	11.6	
41	Benzene	78	7.978	7.972	(0.911)	15866	0.90120	0.90(aM)	M10
67	Chlorobenzene	112	12.268	12.254	(1.002)	376483	32.5603	32.6	
92	1,4-Dichlorobenzene	146	15.585	15.579	(1.001)	46336	4.53203	4.5	
95	1,2-Dichlorobenzene	146	16.257	16.251	(1.045)	33795	3.85374	3.8	
$ 37	Dibromofluoromethane	113	7.463	7.457	(0.921)	161865	52.3540	52.4	
$ 45	1,2-Dichloroethane-D4	65	8.142	8.135	(1.004)	196370	54.0459	54.0	
$ 55	Toluene-D8	98	10.380	10.374	(1.185)	740842	54.3490	54.3	
$ 76	P-Bromofluorobenzene	95	13.884	13.878	(1.585)	308552	57.5178	57.5	
* 42	Pentafluorobenzene	168	8.106	8.100	(1.000)	317839	50.0000		
* 49	1,4-Difluorobenzene	114	8.757	8.751	(1.000)	618360	50.0000		
* 66	Chlorobenzene-D5	117	12.239	12.233	(1.000)	602049	50.0000		
* 91	1,4-Dichlorobenzene-D4	152	15.564	15.558	(1.000)	326940	50.0000		

MMM 5-1-12

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
-Vinyl chloride (2.437)
-cis-1,2-Dichloroethene (6.827)
-Dibromofluoromethane (7.463)
-Benzene (7.978)
-1,2-Dichloroethane-D4 (8.107)+
-1,4-Difluorobenzene (8.757)
Toluene-D8 (10.380)
Chlorobenzene (12.247)+
P-Bromofluorobenzene (13.884)
1,4-Dichlorobenzene (15.564)+
-1,2-Dichlorobenzene (16.258)
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Date : 23-APR-2012 18:04
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Instrument: gcms-d.i

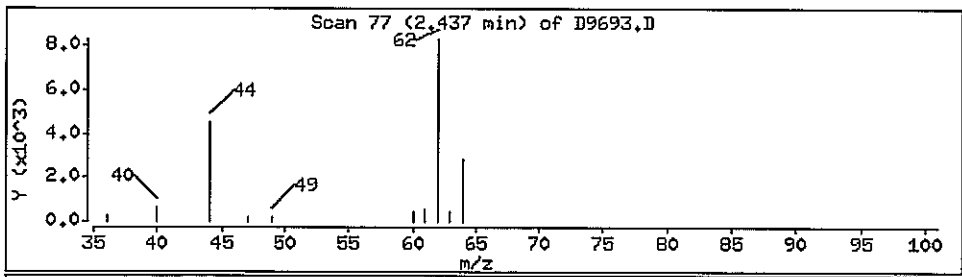
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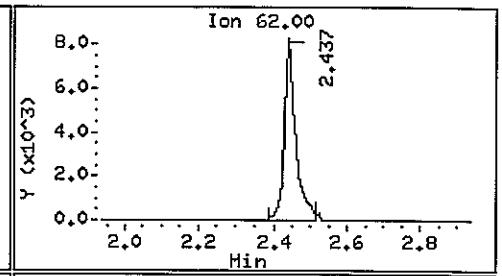
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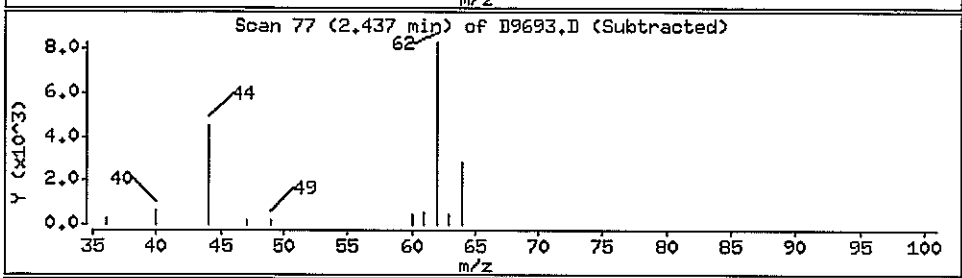
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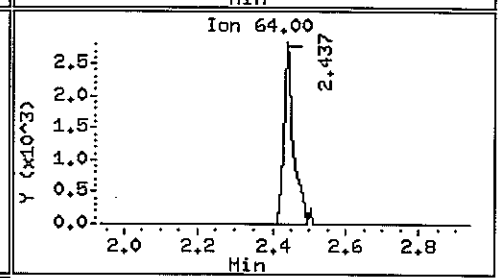
Sample Info: SF2129-10

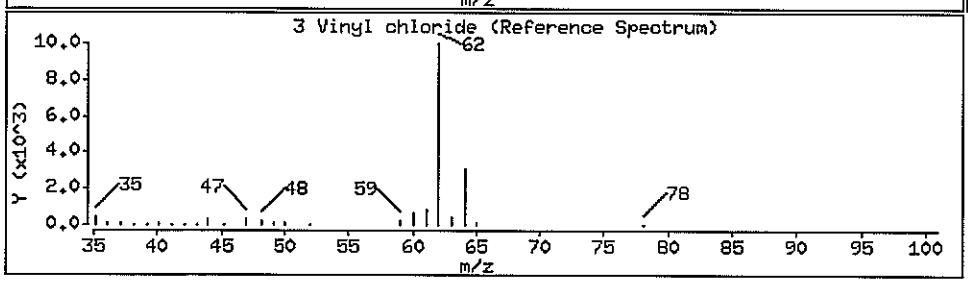
3 Vinyl chloride Concentration: 2.9 ug/l



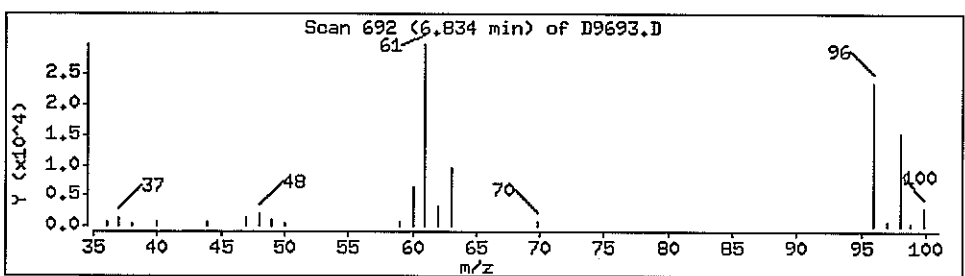


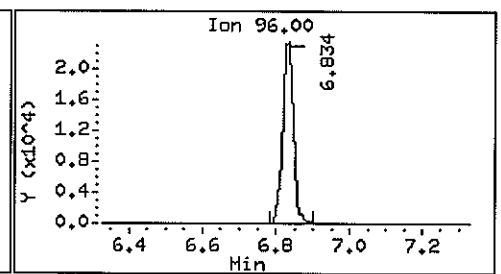


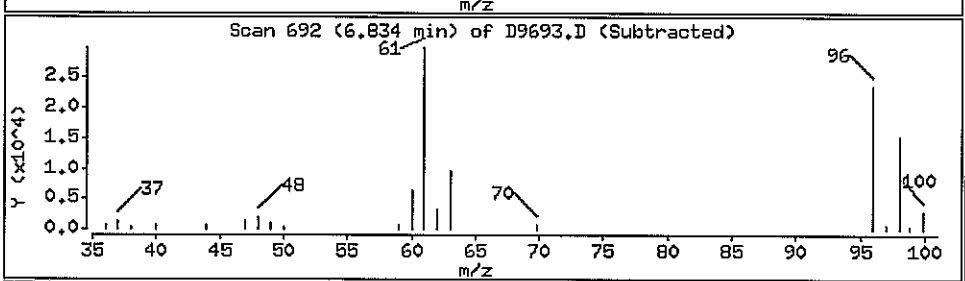


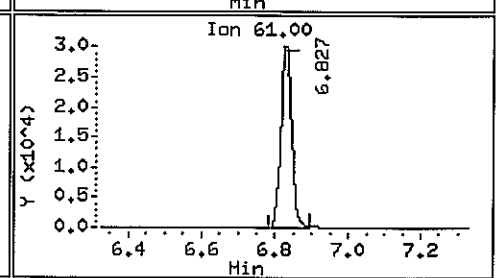


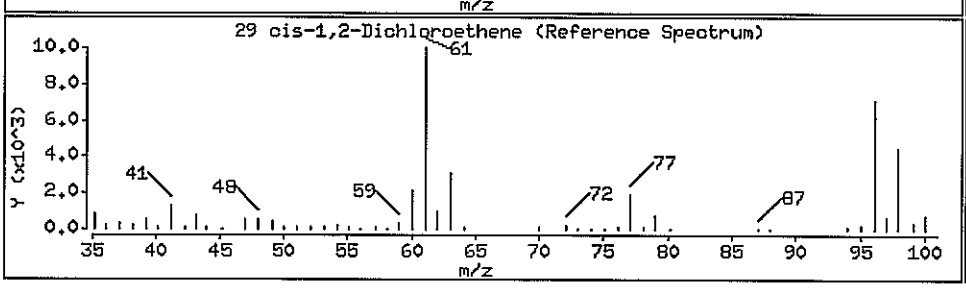
29 cis-1,2-Dichloroethene Concentration: 11.6 ug/l

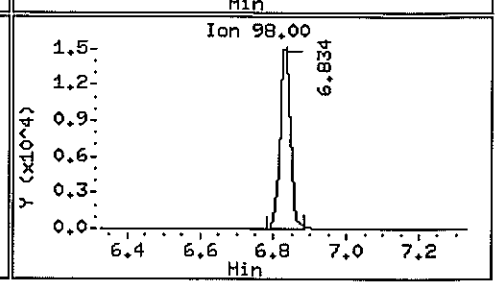






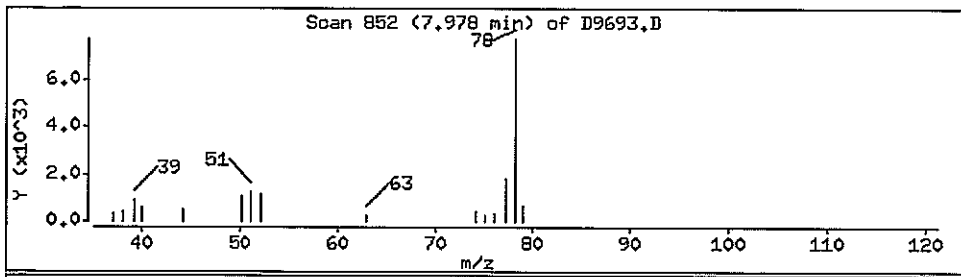


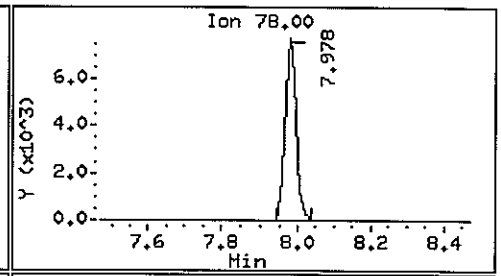


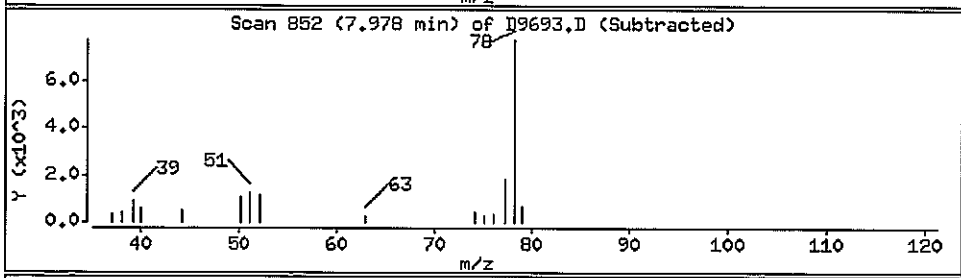


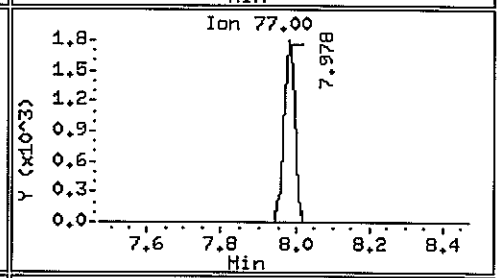
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Date : 23-APR-2012 18:04
Client ID: A0C9-MW19PM04172012 Instrument: gcms-d.i
Sample Info: SF2129-10

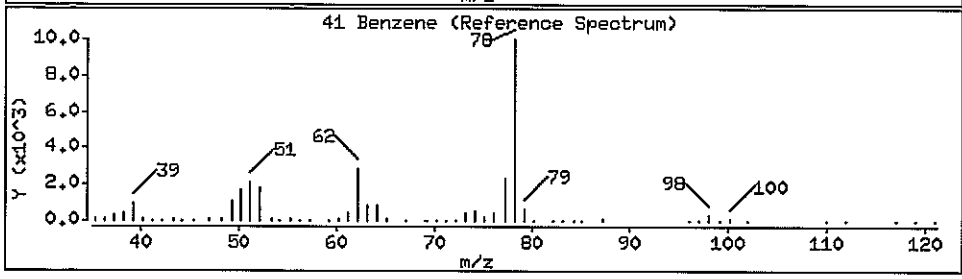
41 Benzene Concentration: 0.90 ug/l

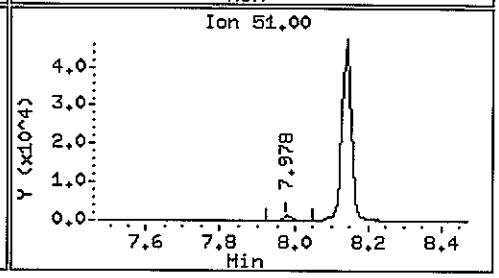




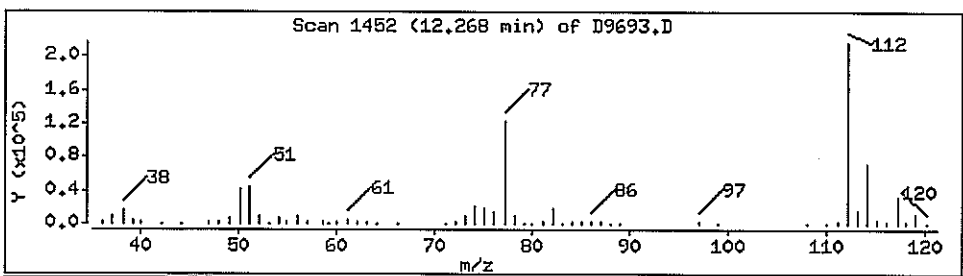


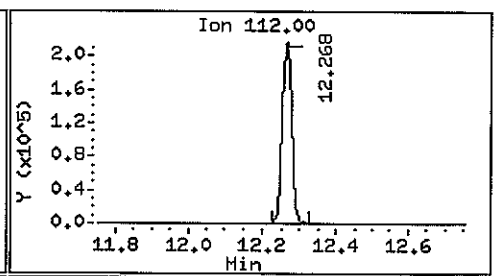


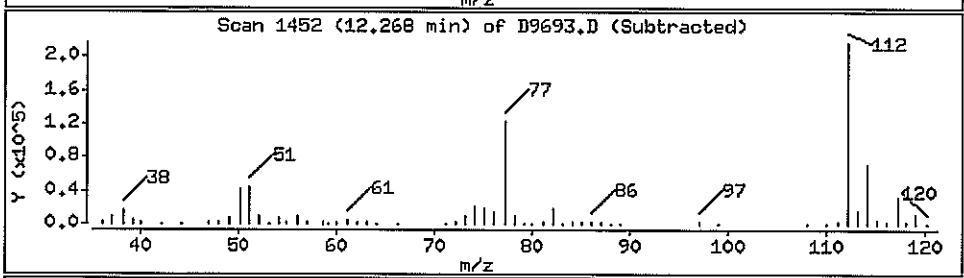


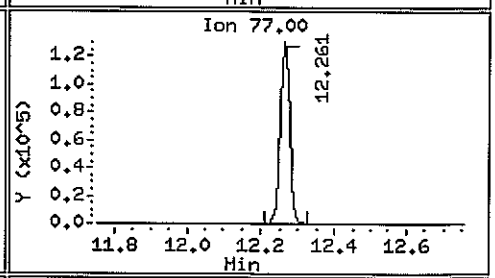


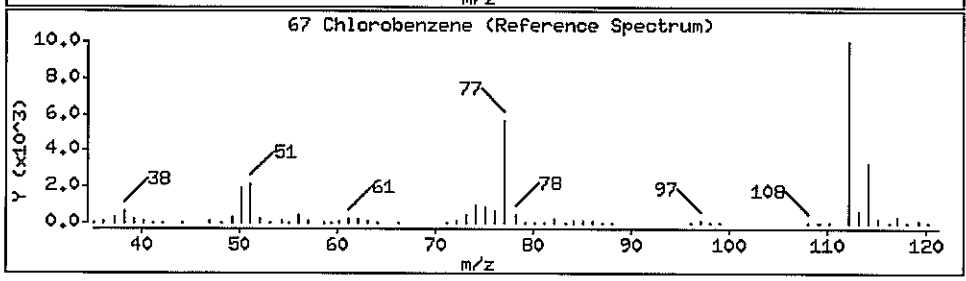
67 Chlorobenzene Concentration: 32.6 ug/l

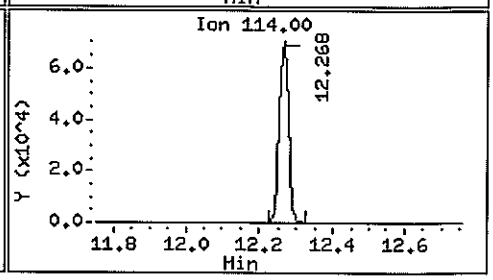












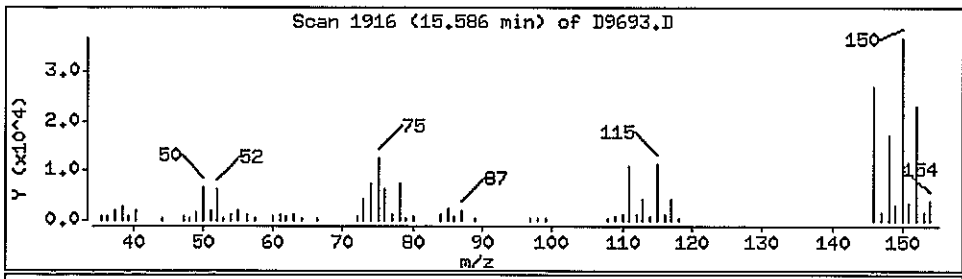
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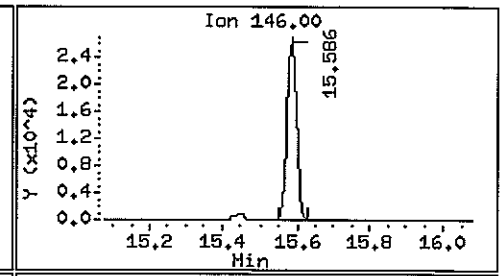
Date : 23-APR-2012 18:04

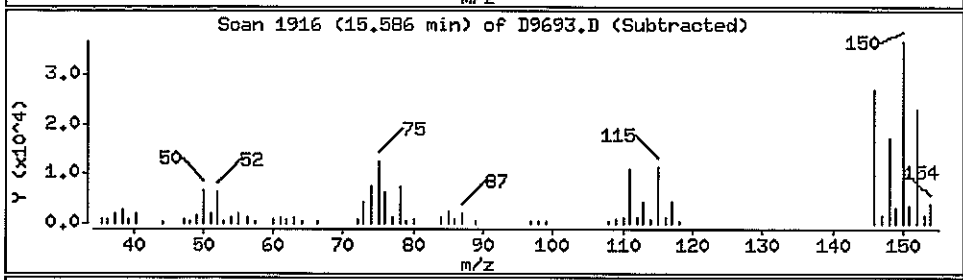
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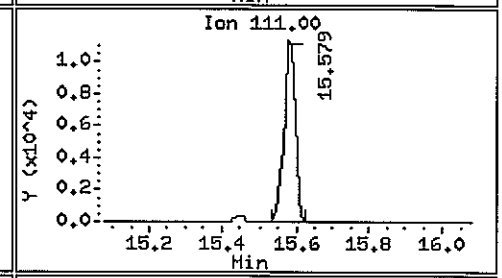
Sample Info: SF2129-10

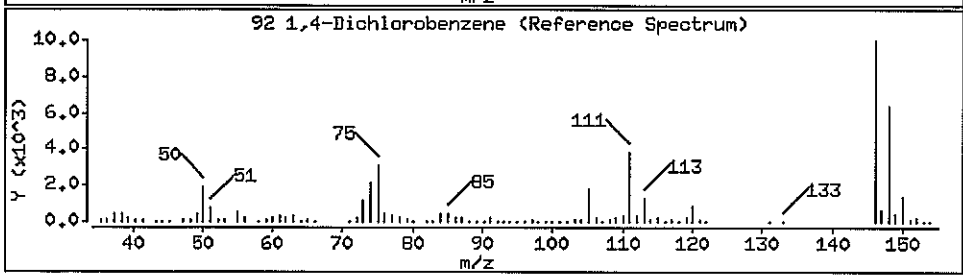
92 1,4-Dichlorobenzene Concentration: 4.5 ug/l

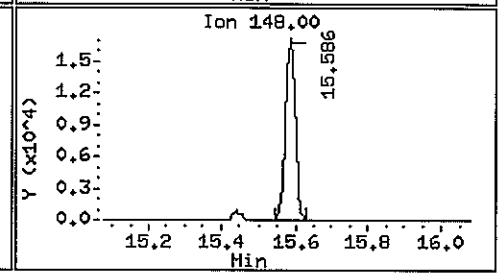




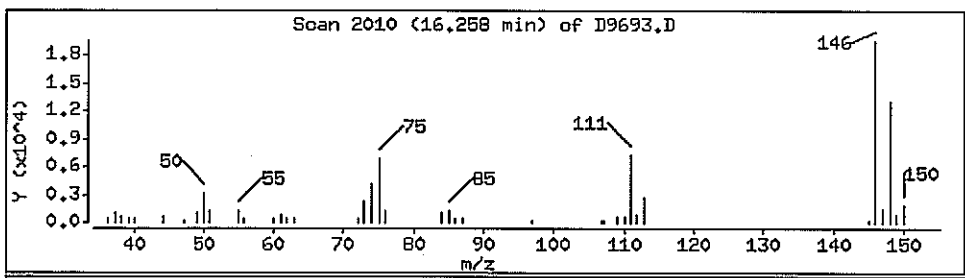


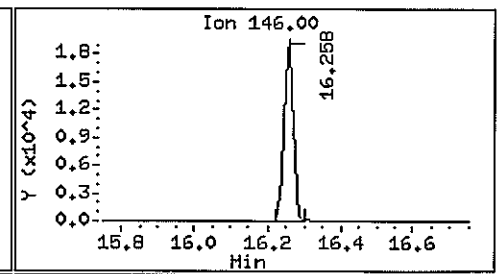


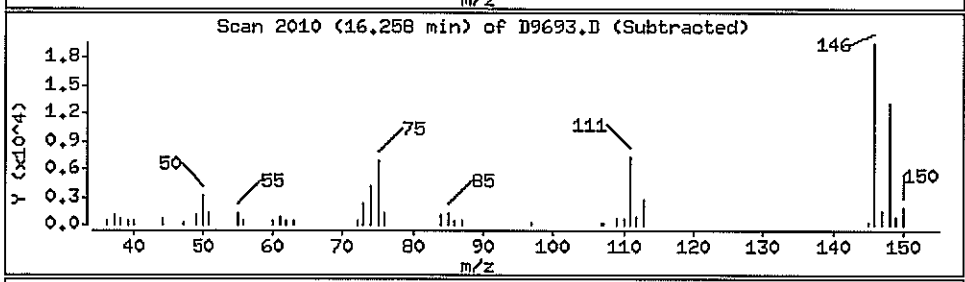


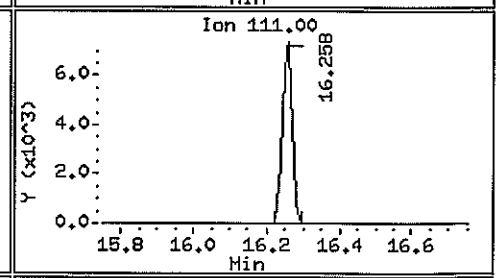


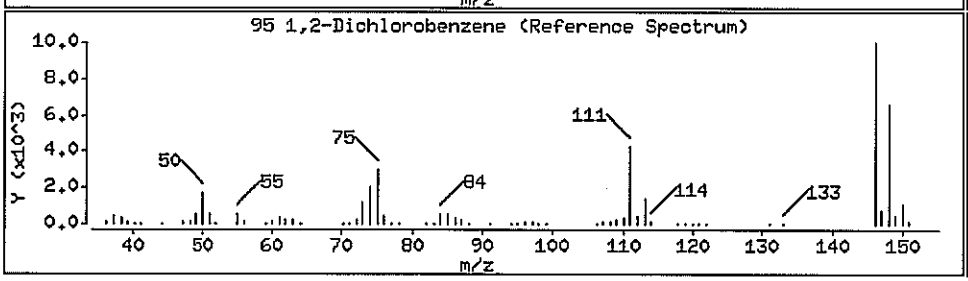
95 1,2-Dichlorobenzene Concentration: 3.8 ug/l

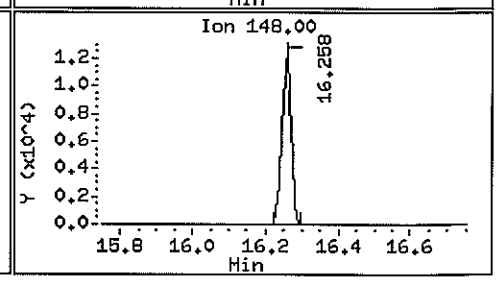








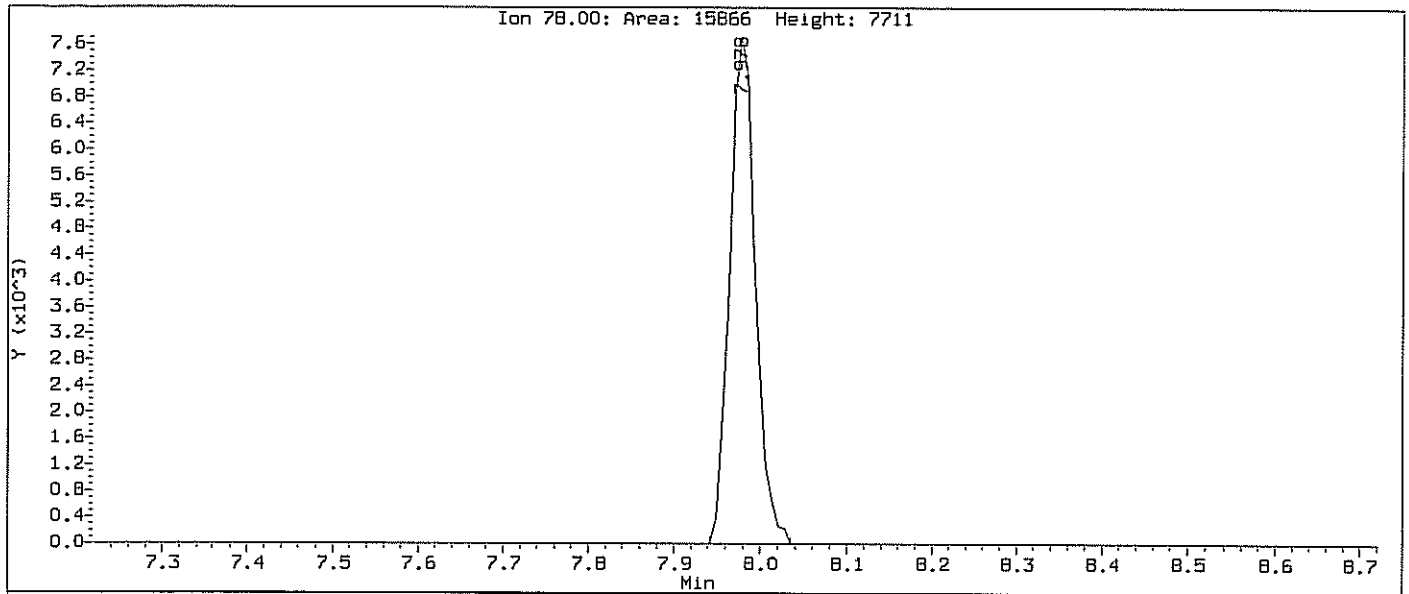


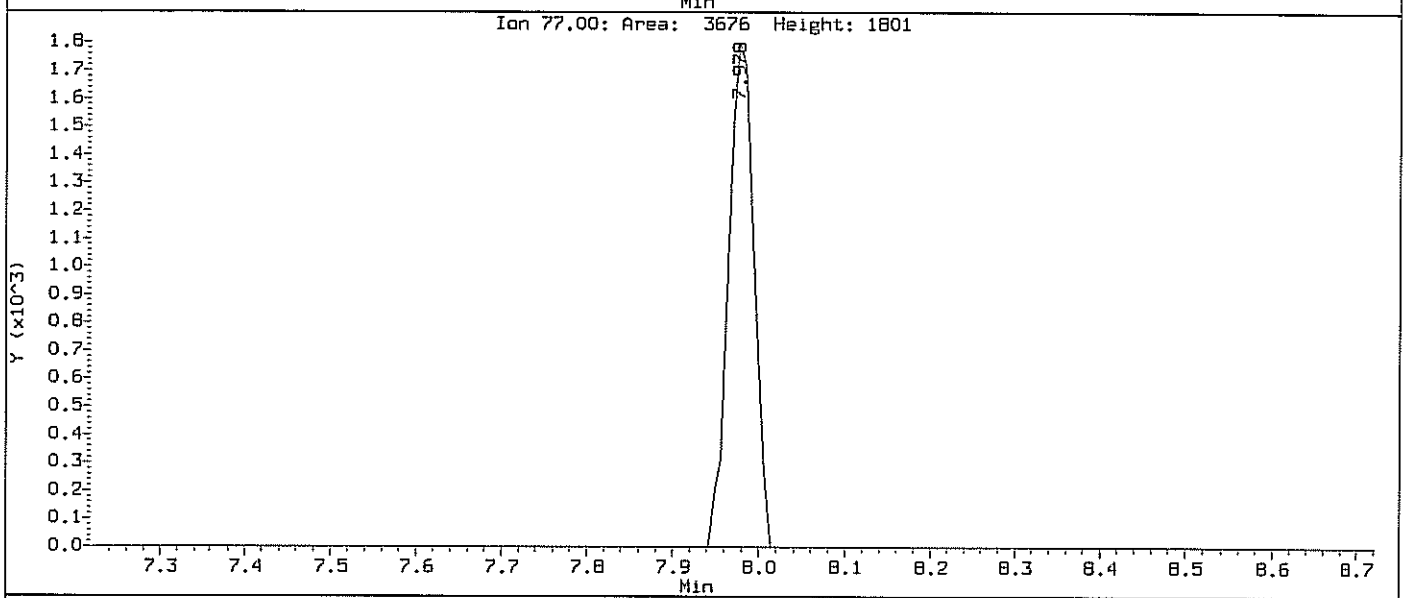


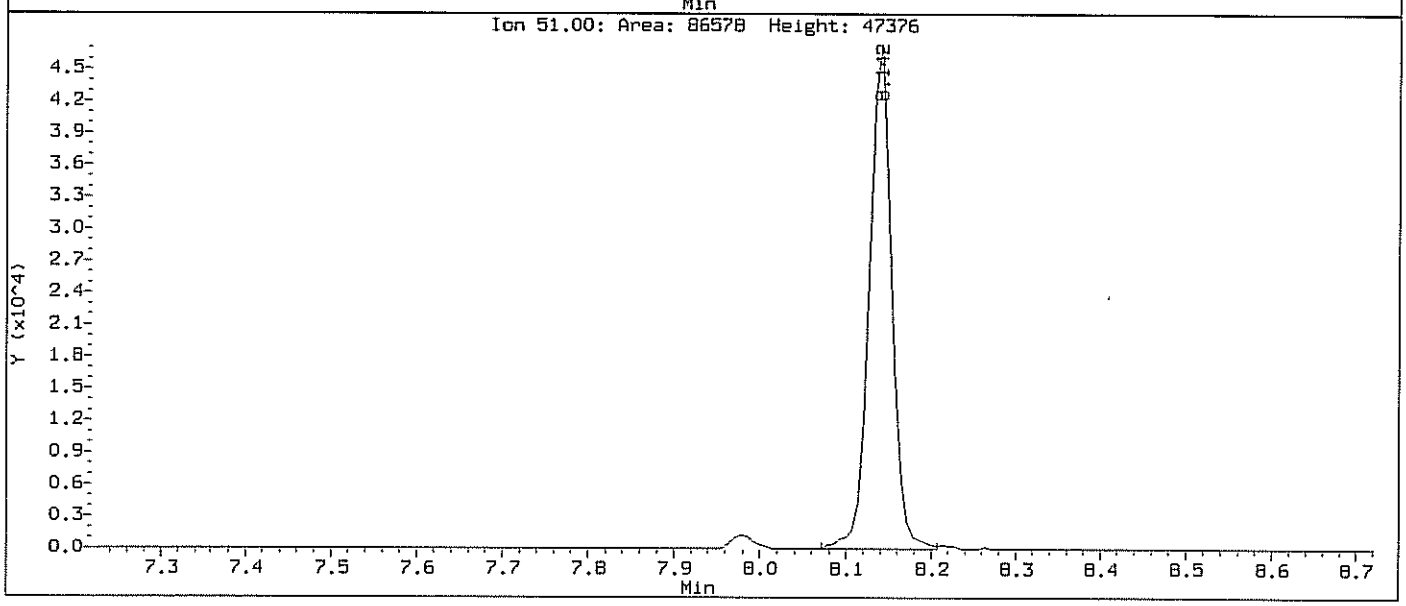
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Injection Date: 23-APR-2012 18:04
Instrument: gcms-d.i
Client Sample ID: AOC9-MW19PMO4172012

Compound: Benzene
CAS Number: 71-43-2

Before



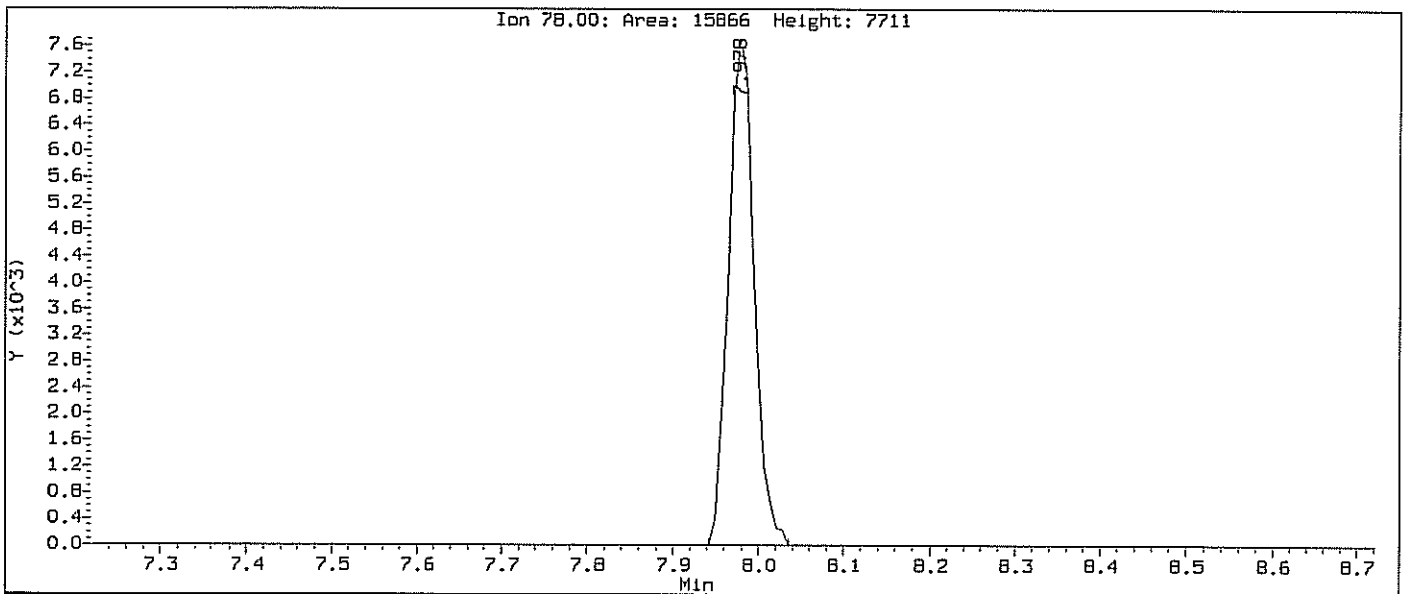


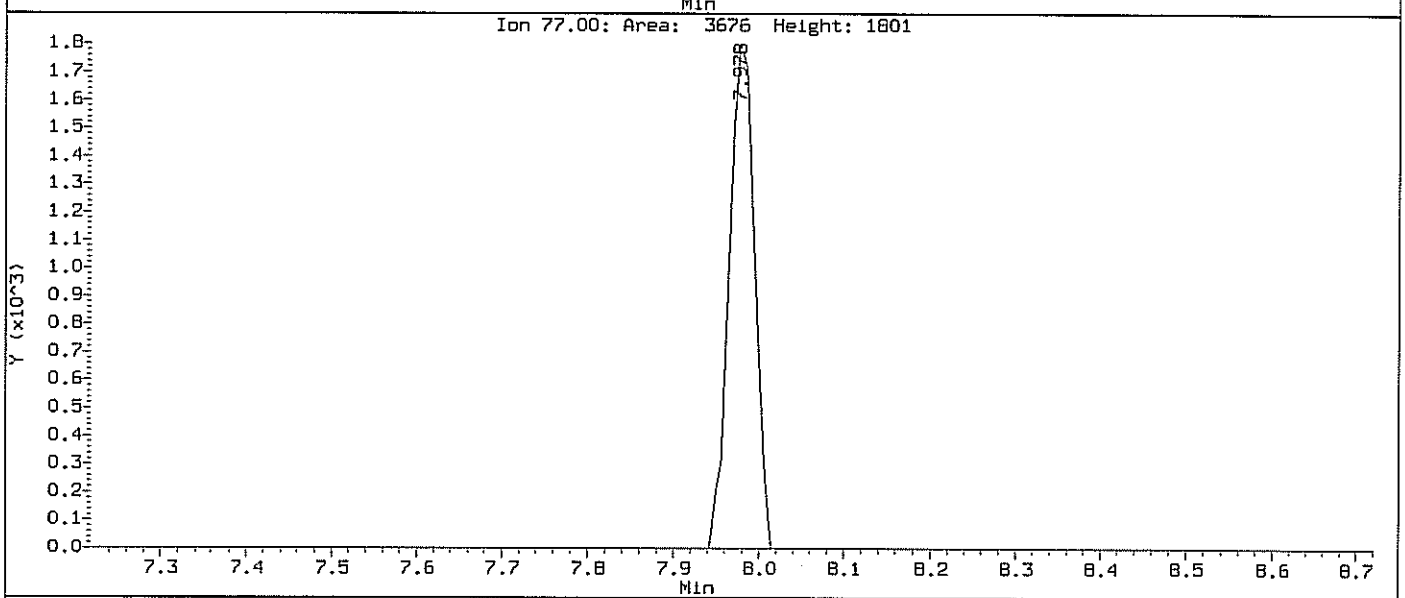


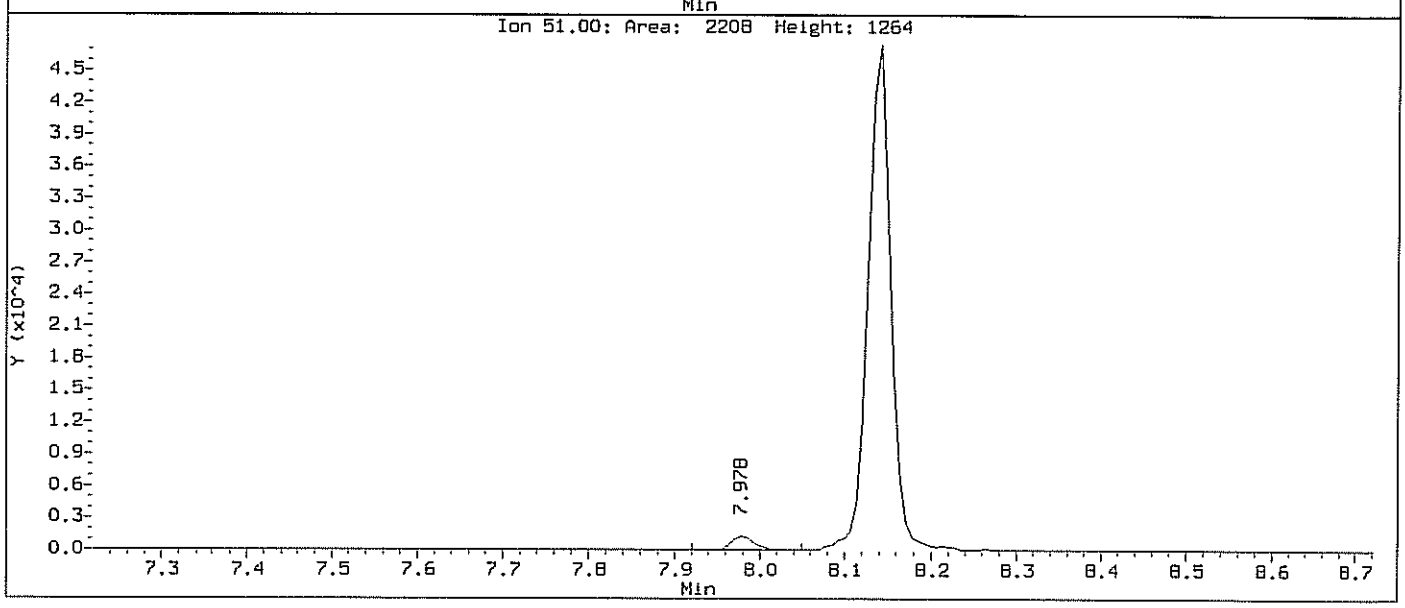
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Injection Date: 23-APR-2012 18:04
Instrument: gcms-d.i
Client Sample ID: AOC9-MW19PM04172012

Compound: Benzene
CAS Number: 71-43-2

After







Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SF2129
Project : Former Griffiss Air Force Base, AOC 9 **Instrument ID:** GCMS-D
Lab File IDs : D9536.DD9534.DD9533.D **Calibration Date(s):** 16-APR-12 10:26
D9532.DD9531.DD9530.D 16-APR-12 13:44

	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	New Crv	b	m1	m2	%RSD	Max %RSD	
Dichlorodifluoromethane	0.77966	0.65591	0.64790	0.59798	0.59171	0.60731	AVG		0.64674		10.87079	15.00000	O
Chloromethane	1.06828	0.86586	0.83386	0.78051	0.79071	0.80892	AVG		0.85802		12.53118	15.00000	O
Vinyl chloride	10267	41161	173113	376622	788813	1341741	LNR	-0.0143:	0.73862		0.99984	0.99000	O
Bromomethane	0.62629	0.45548	0.49801	0.53753	0.59629	0.56667	AVG		0.54671		11.55920	15.00000	O
Chloroethane	0.68773	0.53794	0.52481	0.49228	0.51578	0.52852	AVG		0.54784		12.82544	15.00000	O
Trichlorofluoromethane	1.29296	0.94214	0.98062	0.93861	1.04687	1.12706	AVG		1.05471		12.97932	15.00000	O
1,1-Dichloroethene	7261	27331	113612	274952	596052	1122552	LNR	0.04528	0.61539		0.99777	0.99000	O
Carbon Disulfide	27628	97329	417237	1041466	2229704	3992775	LNR	0.02588	2.19767		0.99944	0.99000	O
Freon-113	4671	18142	72436	175500	394762	749701	LNR	0.05639	0.41137		0.99693	0.99000	O
Methylene Chloride	8474	34747	120180	338770	599258	1034753	LNR	-0.0294·	0.56942		0.99846	0.99000	O
Acetone	0.19575	0.13166	0.09017	0.10736	0.12672	0.11597	AVG		0.12794		28.41146	15.00000	WO
trans-1,2-Dichloroethene	8716	33528	114793	326088	580769	1032364	LNR	-0.0158·	0.56639		0.99874	0.99000	O
Methyl tert-butyl ether	1.37822	1.35204	1.10119	1.32177	1.40826	1.30648	AVG		1.31133		8.34092	15.00000	O
1,1-Dichloroethane	1.33953	1.00608	0.98157	0.99955	1.01350	1.08526	AVG		1.07091		12.73058	15.00000	O
cis-1,2-Dichloroethene	0.72431	0.58642	0.58556	0.60255	0.60519	0.64407	AVG		0.62468		8.52046	15.00000	O
Bromochloromethane	0.28872	0.22603	0.22659	0.22155	0.21856	0.24116	AVG		0.23710		11.15894	15.00000	O
Chloroform	1.20146	0.91349	0.93284	0.93998	0.93787	0.99850	AVG		0.98736		11.00998	15.00000	O
Carbon Tetrachloride	0.46216	0.34534	0.35213	0.37087	0.39771	0.43301	AVG		0.39354		11.82942	15.00000	O
1,1,1-Trichloroethane	1.06969	0.77547	0.79136	0.81807	0.84563	0.91711	AVG		0.86955		12.65063	15.00000	O
2-Butanone	8084	40378	142707	409441	1106802	1776427	LNR	0.25077	0.20066		0.99534	0.99000	O
Benzene	1.63622	1.33364	1.31267	1.34977	1.44122	1.46786	AVG		1.42356		8.50692	15.00000	O
Cyclohexane	1.09943	0.92785	0.94513	0.97730	0.99973	1.11247	AVG		1.01032		7.74676	15.00000	O
1,2-Dichloroethane	0.44957	0.37047	0.34997	0.36389	0.39773	0.41957	AVG		0.39187		9.63442	15.00000	O
Trichloroethene	7710	30242	118635	300411	669659	1334455	LNR	0.07159	0.40122		0.99567	0.99000	O
1,2-Dichloropropane	0.36942	0.30163	0.29991	0.31671	0.33850	0.36077	AVG		0.33116		9.01089	15.00000	O
Bromodichloromethane	0.43186	0.35597	0.37777	0.40268	0.43804	0.47003	AVG		0.41272		10.18460	15.00000	O
cis-1,3-dichloropropene	0.42562	0.42724	0.46990	0.50863	0.56248	0.60012	AVG		0.49900		14.37547	15.00000	O
1,4-Dioxane	1541	6390	20816	47879	112682	+++++	LNR	0.38345	0.00297		0.99387	0.99000	O
Toluene	1.01871	0.82718	0.83383	0.85611	0.92723	0.97663	AVG		0.90662		8.83104	15.00000	O
4-methyl-2-pentanone	14388	80647	331162	962070	2542944	4054740	QUA	0.33881	3.57185	0.08348	0.99479	0.99000	O
Tetrachloroethene	7942	24209	90246	225863	527903	1122532	LNR	0.03932	0.29050		0.99813	0.99000	O
trans-1,3-Dichloropropene	6205	30986	143482	387436	894391	1684451	LNR	0.06725	0.51038		0.99765	0.99000	O
1,1,2-Trichloroethane	0.24573	0.20443	0.20004	0.21557	0.25516	0.26896	AVG		0.23165		12.42403	15.00000	O
Dibromochloromethane	0.28187	0.25453	0.26089	0.28613	0.31255	0.29955	AVG		0.28259		7.84370	15.00000	O
1,2-Dibromoethane	0.26721	0.22878	0.22430	0.24680	0.29031	0.29617	AVG		0.25893		11.83501	15.00000	O
2-Hexanone	8129	50263	209443	616990	1745830	2833330	QUA	0.39625	4.68074	0.63616	0.99169	0.99000	O
Chlorobenzene	21576	83187	346868	858198	1868703	3633156	LNR	-0.0095:	0.94640		0.99986	0.99000	O

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SF2129
Project : Former Griffiss Air Force Base, AOC 9 **Instrument ID:** GCMS-D
Lab File IDs : D9536.DD9534.DD9533.D **Calibration Date(s):** 16-APR-12 10:26
D9532.DD9531.DD9530.D 16-APR-12 13:44

Ethylbenzene	0.67682	0.52782	0.51480	0.51499	0.53197	0.52771	AVG		0.54902		11.47823	15.00000	O
m+p-Xylenes	0.76522	0.63573	0.65166	0.67358	0.69746	0.70066	AVG		0.68738		6.65753	15.00000	O
o-Xylene	0.57961	0.56877	0.59833	0.61520	0.63483	0.62838	AVG		0.60419		4.40293	15.00000	O
Styrene	0.93327	0.92810	1.01439	1.07119	1.10966	1.07593	AVG		1.02209		7.54848	15.00000	O
Bromoform	2149	10947	50607	141267	367585	710213	LNR	0.04614	0.18736		0.99796	0.99000	O
Isopropylbenzene	2.89348	2.37738	2.61116	2.66973	2.70231	2.59994	AVG		2.64233		6.34160	15.00000	O
N-Propylbenzene	4.18443	3.64923	3.73626	3.80468	3.73637	3.42223	AVG		3.75553		6.62484	15.00000	O
1,1,2,2-Tetrachloroethane	0.76215	0.64828	0.59614	0.65610	0.76936	0.69116	AVG		0.68720		9.90328	15.00000	O
1,3,5-Trimethylbenzene	2.66600	2.35490	2.58134	2.64272	2.74350	2.72762	AVG		2.61935		5.43232	15.00000	O
4-Chlorotoluene	2.47567	2.17814	2.25838	2.28533	2.30323	2.27566	AVG		2.29607		4.27474	15.00000	O
tert-Butylbenzene	2.50244	2.27529	2.40971	2.51497	2.65863	2.78323	AVG		2.52404		7.10474	15.00000	O
1,2,4-Trimethylbenzene	2.71355	2.36216	2.54651	2.61538	2.68526	2.66831	AVG		2.59853		5.00227	15.00000	O
P-Isopropyltoluene	2.58972	2.29797	2.50008	2.61430	2.68238	2.70289	AVG		2.56456		5.81912	15.00000	O
1,3-Dichlorobenzene	1.70790	1.34795	1.34397	1.37710	1.44382	1.52080	AVG		1.45692		9.62134	15.00000	O
1,4-Dichlorobenzene	1.96827	1.43407	1.41417	1.44936	1.51508	1.60071	AVG		1.56361		13.40444	15.00000	O
N-Butylbenzene	2.85559	2.39877	2.57940	2.66543	2.71308	2.67006	AVG		2.64705		5.72762	15.00000	O
sec-Butylbenzene	3.81772	3.13144	3.32123	3.35218	3.39500	3.28071	AVG		3.38305		6.83881	15.00000	O
1,2-Dichlorobenzene	1.46477	1.21653	1.24940	1.29158	1.38593	1.43860	AVG		1.34113		7.69045	15.00000	O
1,2-Dibromo-3-Chloropropane	637	3241	12476	39091	112359	193524	QUA	0.07607	8.25656	3.28701	0.99355	0.99000	O
1,2,4-Trichlorobenzene	5791	28755	117752	323690	813985	1784893	QUA	0.02641	1.33367	-0.07280	0.99924	0.99000	O
Naphthalene	6666	40176	184409	529495	1565010	2777362	QUA	0.07438	0.61659	0.00903	0.99394	0.99000	O
1,2,3-Trichlorobenzene	0.55838	0.52600	0.50374	0.55892	0.67775	0.68442	AVG		0.58487		13.23534	15.00000	O
Methyl Acetate	4448	17033	54961	166692	383776	597784	LNR	0.00501	0.33696		0.99649	0.99000	O
Methylcyclohexane	1.04831	0.86527	0.96013	0.97399	1.01061	1.17971	AVG		1.00634		10.41453	15.00000	O
Dibromofluoromethane	0.46782	0.46796	0.47520	0.47726	0.49135	0.53862	AVG		0.48637		5.55176	15.00000	
1,2-Dichloroethane-D4	0.51156	0.56910	0.53178	0.55742	0.59405	0.66555	AVG		0.57158		9.49555	15.00000	
Toluene-D8	0.92491	1.06296	1.07842	1.11752	1.19467	1.23476	AVG		1.10221		9.92969	15.00000	
P-Bromofluorobenzene	0.37896	0.38449	0.40376	0.42716	0.46895	0.53927	AVG		0.43376		14.11584	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\GG\chem\gcms-d.i\D041612.b\D9537a.D
Report Date: 20-Apr-2012 10:45

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: WG107009-9
Level: LOW
Data Type: MS DATA
SpikeList File: IND_CHECK4.1.spk
Sublist File: all.sub
Client SDG: WG107009
Fraction: VOA
Client Smp ID: Independent Source
Operator: DCA
SampleType: LCS
Quant Type: ISTD
Method File: \\target_server\GG\chem\gcms-d.i\D041612.b\D826A91.m
Misc Info: WG107009,WG107009-4,SF1987-1

	SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	1 Dichlorodifluorome	50.0	41.8	83.57	80-120
	2 Chloromethane	50.0	45.7	91.45	80-120
	3 Vinyl chloride	50.0	49.5	98.97	80-120
	4 Bromomethane	50.0	46.3	92.62	80-120
	5 Chloroethane	50.0	47.0	94.12	80-120
	6 Trichlorofluoromet	50.0	43.2	86.51	80-120
	7 Diethyl Ether	50.0	50.2	100.51	80-120
	8 Tertiary-butyl alc	250	259	103.65	80-120
	9 1,1-Dichloroethene	50.0	49.1	98.17	80-120
	10 Carbon Disulfide	50.0	47.8	95.51	80-120
	11 Freon-113	50.0	49.4	98.83	80-120
	12 Iodomethane	50.0	38.6	77.15*	80-120
	13 Acrolein	250	274	109.58	80-120
	14 Methylene Chloride	50.0	60.3	120.66*	80-120
	15 Acetone	50.0	56.0	111.95	80-120
	16 Isobutyl Alcohol	1000	462	46.22*	80-120
	17 trans-1,2-Dichloro	50.0	47.5	95.05	80-120
	18 Allyl Chloride	50.0	52.9	105.79	80-120
	19 Methyl tert-butyl	100	95.0	95.02	80-120
	20 Acetonitrile	500	410	82.02	80-120
	21 Di-isopropyl ether	50.0	50.0	99.98	80-120
	22 Chloroprene	50.0	51.0	102.11	80-120
	23 Propionitrile	500	432	86.41	80-120
	24 Methacrylonitrile	500	508	101.72	80-120
	25 1,1-Dichloroethane	50.0	50.3	100.65	80-120
	26 Acrylonitrile	250	234	93.67	80-120
	27 Ethyl tertiary-but	50.0	49.8	99.68	80-120
	28 Vinyl Acetate	50.0	40.2	80.31	80-120
	29 cis-1,2-Dichloroet	50.0	48.4	96.76	80-120
M	30 1,2-Dichloroethyle	100	95.9	95.91	80-120
	31 Methyl Methacrylat	50.0	46.4	92.87	80-120
	32 2,2-Dichloropropan	50.0	46.7	93.46	80-120
	33 Bromochloromethane	50.0	50.1	100.16	80-120
	34 Chloroform	50.0	49.5	99.04	80-120
	35 Carbon Tetrachlori	50.0	47.8	95.56	80-120
	36 Tetrahydrofuran	50.0	48.3	96.58	80-120
	38 1,1,1-Trichloroeth	50.0	47.5	94.92	80-120
	39 1,1-Dichloropropen	50.0	48.9	97.88	80-120
	40 2-Butanone	50.0	49.8	99.66	80-120
	41 Benzene	50.0	48.6	97.24	80-120

Data File: \\target_server\GG\chem\gcms-d.i\D041612.b\D9537a.D
Report Date: 20-Apr-2012 10:45

	SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	43	Cyclohexane	50.0	52.0	104.11	80-120
	44	Ethyl Methacrylate	50.0	45.4	90.82	80-120
	46	Tertiary-amyl meth	50.0	51.0	101.97	80-120
	47	1,2-Dichloroethane	50.0	50.1	100.17	80-120
	48	Trichloroethene	50.0	45.3	90.54	80-120
	50	Dibromomethane	50.0	49.7	99.42	80-120
	51	1,2-Dichloropropan	50.0	49.8	99.51	80-120
	52	Bromodichlorometha	50.0	49.7	99.38	80-120
	53	cis-1,3-dichloropr	50.0	51.6	103.32	80-120
	54	1,4-Dioxane	1000	341	34.12*	80-120
	56	2-Chloroethylvinyl	50.0	42.6	85.29	80-120
	57	Toluene	50.0	48.5	97.00	80-120
	58	4-methyl-2-pentano	50.0	53.9	107.84	80-120
	59	Tetrachloroethene	50.0	45.2	90.33	80-120
	60	trans-1,3-Dichloro	50.0	51.3	102.57	80-120
	61	1,1,2-Trichloroeth	50.0	47.3	94.68	80-120
	62	Dibromochlorometha	50.0	51.9	103.87	80-120
	63	1,3-Dichloropropan	50.0	51.8	103.50	80-120
	64	1,2-Dibromoethane	50.0	50.2	100.51	80-120
	65	2-Hexanone	50.0	51.5	103.07	80-120
	67	Chlorobenzene	50.0	52.0	104.01	80-120
	152	1-Chlorohexane	50.0	52.2	104.50	80-120
	68	Ethylbenzene	50.0	49.8	99.60	80-120
	69	1,1,1,2-Tetrachlor	50.0	51.5	103.06	80-120
M	70	Xylenes (total)	150	151	100.48	80-120
	71	m+p-Xylenes	100	99.5	99.54	80-120
	72	o-Xylene	50.0	51.2	102.36	80-120
	73	Styrene	50.0	51.7	103.37	80-120
	74	Bromoform	50.0	46.8	93.64	80-120
	75	Isopropylbenzene	50.0	59.5	119.02	80-120
	77	cis-1,4-Dichloro-2	50.0	49.5	99.05	80-120
	78	trans-1,4-Dichloro	50.0	48.9	97.76	80-120
	79	Bromobenzene	50.0	47.9	95.87	80-120
	80	N-Propylbenzene	50.0	54.6	109.31	80-120
	81	1,1,2,2-Tetrachlor	50.0	48.1	96.21	80-120
	82	1,3,5-Trimethylben	50.0	48.1	96.24	80-120
	83	2-Chlorotoluene	50.0	50.6	101.29	80-120
	84	1,2,3-Trichloropro	50.0	47.4	94.75	80-120
	85	4-Chlorotoluene	50.0	52.3	104.68	80-120
	86	tert-Butylbenzene	50.0	49.0	97.96	80-120
	87	Pentachloroethane	50.0	48.4	96.72	80-120
	88	1,2,4-Trimethylben	50.0	49.6	99.11	80-120
	89	P-Isopropyltoluene	50.0	52.7	105.47	80-120
	90	1,3-Dichlorobenzen	50.0	49.2	98.46	80-120
	92	1,4-Dichlorobenzen	50.0	48.6	97.26	80-120
	93	N-Butylbenzene	50.0	51.1	102.17	80-120
	94	sec-Butylbenzene	50.0	51.6	103.28	80-120
	95	1,2-Dichlorobenzen	50.0	48.7	97.48	80-120
	96	1,2-Dibromo-3-Chlo	50.0	41.6	83.17	80-120
	97	1,3,5-Trichloroben	50.0	46.6	93.14	80-120
	98	Hexachlorobutadien	50.0	48.4	96.85	80-120
	99	1,2,4-Trichloroben	50.0	48.7	97.32	80-120
	100	1,2,3-Trimethylben	50.0	52.2	104.32	80-120
	101	Naphthalene	50.0	40.2	80.47	80-120

Data File: \\target_server\GG\chem\gcms-d.i\D041612.b\D9537a.D
Report Date: 20-Apr-2012 10:45

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
102 1,2,3-Trichloroben	50.0	43.0	86.10	80-120
103 Methyl Acetate	50.0	49.8	99.58	80-120
104 Methylcyclohexane	50.0	49.5	98.98	80-120
M 153 Total Alkylbenzene	350	357	101.93	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	49.4	98.86	68-128
$ 45 1,2-Dichloroethane	50.0	48.6	97.23	67-135
$ 55 Toluene-D8	50.0	52.1	104.20	65-128
$ 76 P-Bromofluorobenze	50.0	49.0	97.93	56-133

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9530.D
Report Date: 17-Apr-2012 09:26

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D041612.b\D9530.D
Lab Smp Id: VSTD200D16A
Inj Date : 16-APR-2012 10:26
Operator : DCA Inst ID: gcms-d.i
Smp Info : WG107009-6,VSTD200D16A
Misc Info : SW846 8260B
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D041612.b\D826A91.m
Meth Date : 17-Apr-2012 09:24 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 10:26 Cal File: D9530.D
Als bottle: 1 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	2.101	2.101	(0.259)	1101705	200.000	188	
2	Chloromethane	50	2.337	2.337	(0.288)	1467450	200.000	188	
3	Vinyl chloride	62	2.437	2.437	(0.301)	1341741	200.000	200	
4	Bromomethane	94	2.837	2.838	(0.350)	1027992	200.000	207(A)	
5	Chloroethane	64	3.002	3.002	(0.370)	958779	200.000	193	
6	Trichlorofluoromethane	101	3.195	3.181	(0.394)	2044582	200.000	214(A)	
7	Diethyl Ether	59	3.610	3.603	(0.445)	868214	200.000	209(A)	
8	Tertiary-butyl alcohol	59	5.898	5.884	(0.727)	386716	1000.00	1100(A)	
9	1,1-Dichloroethene	96	3.881	3.867	(0.479)	1122552	200.000	203(A)	
10	Carbon Disulfide	76	3.917	3.903	(0.483)	3992775	200.000	202(A)	
11	Freon-113	151	3.946	3.939	(0.487)	749701	200.000	204(A)	
12	Iodomethane	142	4.074	4.067	(0.503)	812007	200.000	170	
13	Acrolein	56	4.368	4.361	(0.539)	538192	1000.00	966	
14	Methylene Chloride	84	4.761	4.754	(0.587)	1034753	200.000	199	
15	Acetone	43	4.839	4.833	(0.597)	1051855	1000.00	906	
16	Isobutyl Alcohol	43	8.293	8.279	(1.023)	480186	4000.00	4210(A)	
17	trans-1,2-Dichloroethene	96	5.040	5.033	(0.622)	1032364	200.000	200(A)	
18	Allyl Chloride	41	4.596	4.582	(0.567)	1116795	200.000	199	
19	Methyl tert-butyl ether	73	5.247	5.240	(0.647)	4740136	400.000	398	
20	Acetonitrile	39	5.597	5.591	(0.690)	189674	2000.00	1850	
21	Di-isopropyl ether	45	5.898	5.891	(0.727)	3454363	200.000	213(A)	
22	Chloroprene	53	6.019	6.005	(0.742)	1769019	200.000	217(A)	
23	Propionitrile	54	8.007	7.993	(0.988)	1193799	2000.00	2300(A)	
24	Methacrylonitrile	41	8.043	8.022	(0.992)	5066831	2000.00	2130(A)	

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9530.D
Report Date: 17-Apr-2012 09:26

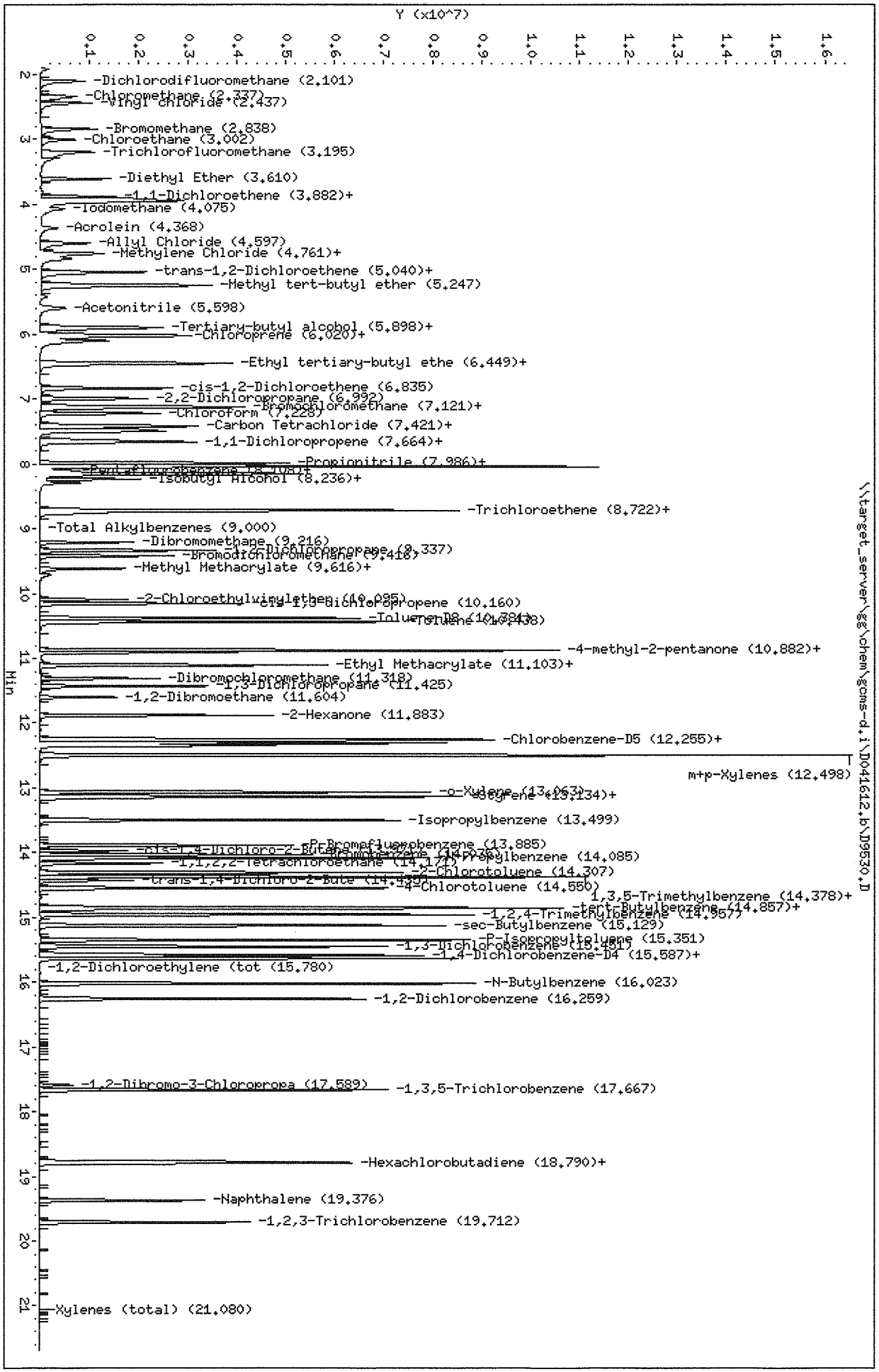
			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	6.041	6.027	(0.745)	1968740	200.000	203(A)	
	26	Acrylonitrile	52	6.105	6.098	(0.753)	1327200	1000.00	1080(A)	
	27	Ethyl tertiary-butyl ether	59	6.448	6.441	(0.795)	3161330	200.000	226(A)	
	28	Vinyl Acetate	43	6.448	6.441	(0.736)	2252838	200.000	198	
	29	cis-1,2-Dichloroethene	96	6.834	6.828	(0.843)	1168390	200.000	206(A)	
M	30	1,2-Dichloroethylene (total)	96				2200754	200.000	(a)	
	31	Methyl Methacrylate	41	9.616	9.609	(1.097)	776766	200.000	199	
	32	2,2-Dichloropropane	77	6.992	6.978	(0.862)	1526358	200.000	216(A)	
	33	Bromochloromethane	128	7.106	7.092	(0.877)	437477	200.000	203(A)	
	34	Chloroform	83	7.228	7.214	(0.892)	1811367	200.000	202(A)	
	35	Carbon Tetrachloride	117	7.406	7.400	(0.845)	1434529	200.000	220(A)	
	36	Tetrahydrofuran	42	7.428	7.421	(0.916)	1236696	1000.00	992	
$	37	Dibromofluoromethane	113	7.464	7.457	(0.921)	977099	200.000	221(A)	
	38	1,1,1-Trichloroethane	97	7.499	7.485	(0.925)	1663706	200.000	211(A)	
	39	1,1-Dichloropropene	75	7.664	7.657	(0.874)	1582161	200.000	208(A)	
	40	2-Butanone	43	7.635	7.628	(0.942)	1776427	1000.00	988	
	41	Benzene	78	7.985	7.972	(0.911)	4862952	200.000	206(A)	
*	42	Pentafluorobenzene	168	8.107	8.100	(1.000)	453520	50.0000		
	43	Cyclohexane	56	7.127	7.114	(0.879)	2018116	200.000	220(A)	
	44	Ethyl Methacrylate	69	11.110	11.103	(1.268)	1326543	200.000	201(A)	
$	45	1,2-Dichloroethane-D4	65	8.150	8.135	(1.005)	1207366	200.000	233(A)	
	46	Tertiary-amyl methyl ether	73	8.157	8.150	(1.006)	2900379	200.000	236(A)	
	47	1,2-Dichloroethane	62	8.236	8.222	(0.940)	1390003	200.000	214(A)	
	48	Trichloroethene	95	8.722	8.708	(0.995)	1334455	200.000	204(A)	
*	49	1,4-Difluorobenzene	114	8.765	8.751	(1.000)	828236	50.0000		
	50	Dibromomethane	93	9.215	9.209	(1.051)	645549	200.000	226(A)	
	51	1,2-Dichloropropane	63	9.337	9.330	(1.065)	1195218	200.000	218(A)	
	52	Bromodichloromethane	83	9.416	9.409	(1.074)	1557168	200.000	228(A)	
	53	cis-1,3-dichloropropene	75	10.159	10.152	(1.159)	1988158	200.000	240(A)	
	54	1,4-Dioxane	88	9.659	9.652	(1.102)	95765	4000.00	1960	
$	55	Toluene-D8	98	10.381	10.374	(1.184)	4090682	200.000	224(A)	
	56	2-Chloroethylvinylether	63	10.095	10.088	(1.152)	643302	200.000	199	
	57	Toluene	92	10.438	10.431	(1.191)	3235517	200.000	215(A)	
	58	4-methyl-2-pentanone	43	10.874	10.867	(1.241)	4054740	1000.00	991	
	59	Tetrachloroethene	164	10.888	10.882	(0.889)	1122532	200.000	203(A)	
	60	trans-1,3-Dichloropropene	75	10.917	10.903	(1.246)	1684451	200.000	203(A)	
	61	1,1,2-Trichloroethane	83	11.103	11.089	(1.267)	891037	200.000	232(A)	
	62	Dibromochloromethane	129	11.317	11.304	(0.924)	1152536	200.000	212(A)	
	63	1,3-Dichloropropane	76	11.425	11.418	(0.933)	1842854	200.000	190	
	64	1,2-Dibromoethane	107	11.603	11.590	(1.324)	981193	200.000	229(A)	
	65	2-Hexanone	43	11.882	11.876	(0.970)	2833330	1000.00	985	
*	66	Chlorobenzene-D5	117	12.247	12.233	(1.000)	961885	50.0000		
	67	Chlorobenzene	112	12.268	12.254	(1.002)	3633156	200.000	199	
	152	1-Chlorohexane	91	12.247	12.233	(1.000)	2074175	200.000	200(A)	
	68	Ethylbenzene	106	12.311	12.297	(1.005)	2030377	200.000	192	
	69	1,1,1,2-Tetrachloroethane	131	12.347	12.340	(1.008)	1207743	200.000	206(A)	
M	70	Xylenes (total)	106				7809374	600.000	(a)	
	71	m+p-Xylenes	106	12.497	12.490	(1.020)	5391648	400.000	408(A)	
	72	o-Xylene	106	13.062	13.055	(1.067)	2417726	200.000	208(A)	
	73	Styrene	104	13.134	13.127	(1.072)	4139694	200.000	210(A)	
	74	Bromoform	173	13.162	13.148	(1.075)	710213	200.000	199	
	75	Isopropylbenzene	105	13.498	13.491	(0.867)	4969034	200.000	197	
$	76	P-Bromofluorobenzene	95	13.884	13.878	(1.584)	1786582	200.000	249(A)	
	77	cis-1,4-Dichloro-2-Butene	53	13.970	13.963	(0.898)	395788	200.000	225(A)	

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9530.D
Report Date: 17-Apr-2012 09:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.435	14.428	(0.927)	370913	200.000	197	
79	Bromobenzene	156	14.034	14.028	(0.902)	1469098	200.000	215(A)	
80	N-Propylbenzene	91	14.085	14.078	(0.905)	6540600	200.000	182	
81	1,1,2,2-Tetrachloroethane	83	14.170	14.164	(0.910)	1320958	200.000	201(A)	
82	1,3,5-Trimethylbenzene	105	14.378	14.371	(0.924)	5213068	200.000	208(A)	
83	2-Chlorotoluene	91	14.306	14.299	(0.919)	4227936	200.000	197	
84	1,2,3-Trichloropropane	75	14.371	14.357	(0.923)	1143164	200.000	212(A)	
85	4-Chlorotoluene	91	14.549	14.543	(0.935)	4349266	200.000	198	
86	tert-Butylbenzene	119	14.850	14.843	(0.954)	5319341	200.000	220(A)	
87	Pentachloroethane	117	14.864	14.864	(0.955)	1187700	200.000	239(A)	
88	1,2,4-Trimethylbenzene	105	14.957	14.950	(0.961)	5099708	200.000	205(A)	
89	P-Isopropyltoluene	119	15.350	15.343	(0.986)	5165801	200.000	211(A)	
90	1,3-Dichlorobenzene	146	15.450	15.436	(0.993)	2906576	200.000	209(A)	
* 91	1,4-Dichlorobenzene-D4	152	15.565	15.558	(1.000)	477803	50.0000		
92	1,4-Dichlorobenzene	146	15.586	15.579	(1.001)	3059291	200.000	205(A)	
93	N-Butylbenzene	91	16.022	16.015	(1.029)	5103053	200.000	202(A)	
94	sec-Butylbenzene	105	15.128	15.115	(0.972)	6270124	200.000	194	
95	1,2-Dichlorobenzene	146	16.258	16.251	(1.045)	2749462	200.000	214(A)	
96	1,2-Dibromo-3-Chloropropane	75	17.588	17.588	(1.130)	193524	200.000	198	
97	1,3,5-Trichlorobenzene	180	17.667	17.660	(1.135)	2243470	200.000	236(A)	
98	Hexachlorobutadiene	225	18.775	18.768	(1.206)	844582	200.000	200	
99	1,2,4-Trichlorobenzene	180	18.796	18.790	(1.208)	1784893	200.000	200	
100	1,2,3-Trimethylbenzene	105	15.636	15.629	(1.005)	4870016	200.000	207(A)	
101	Naphthalene	128	19.376	19.369	(1.245)	2777362	200.000	198	
102	1,2,3-Trichlorobenzene	180	19.712	19.705	(1.266)	1308081	200.000	234(A)	
103	Methyl Acetate	43	5.075	5.069	(0.626)	597784	200.000	196	
104	Methylcyclohexane	83	8.715	8.708	(1.075)	2140094	200.000	234(A)	
M 153	Total Alkylbenzenes	100				38711695	200.000	(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-d.i\D041612.b\D9530.D
Date : 16-APR-2012 10:26
Client ID:
Sample Info: WG107009-6,VSTD200D16A
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-d.i
Operator: DCA
Column diameter: 0.18

\\target_server\gg\chem\gcms-d.i\D041612.b\D9530.D

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9531.D
Report Date: 17-Apr-2012 09:26

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D041612.b\D9531.D
Lab Smp Id: VSTD100D16A
Inj Date : 16-APR-2012 10:54
Operator : DCA Inst ID: gcms-d.i
Smp Info : WG107009-5,VSTD100D16A
Misc Info : SW846 8260B
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D041612.b\D826A91.m
Meth Date : 17-Apr-2012 09:24 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 10:54 Cal File: D9531.D
Als bottle: 2 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	2.103	2.101	(0.260)	621050	100.000	91.5	
2 Chloromethane	50	2.339	2.337	(0.289)	829913	100.000	92.2	
3 Vinyl chloride	62	2.439	2.437	(0.301)	788813	100.000	101	
4 Bromomethane	94	2.839	2.838	(0.350)	625859	100.000	109	
5 Chloroethane	64	2.997	3.002	(0.370)	541355	100.000	94.1	
6 Trichlorofluoromethane	101	3.190	3.181	(0.394)	1098772	100.000	99.2	
7 Diethyl Ether	59	3.604	3.603	(0.445)	512554	100.000	107	
8 Tertiary-butyl alcohol	59	5.900	5.884	(0.728)	223799	500.000	548	
9 1,1-Dichloroethene	96	3.869	3.867	(0.478)	596052	100.000	94.5	
10 Carbon Disulfide	76	3.912	3.903	(0.483)	2229704	100.000	98.0	
11 Freon-113	151	3.948	3.939	(0.487)	394762	100.000	94.2	
12 Iodomethane	142	4.076	4.067	(0.503)	618122	100.000	112	
13 Acrolein	56	4.362	4.361	(0.538)	324033	500.000	502	
14 Methylene Chloride	84	4.756	4.754	(0.587)	599258	100.000	98.8	
15 Acetone	43	4.834	4.833	(0.597)	665039	500.000	495	
16 Isobutyl Alcohol	43	8.288	8.279	(1.023)	375095	2000.00	2840	
17 trans-1,2-Dichloroethene	96	5.034	5.033	(0.621)	580769	100.000	96.9	
18 Allyl Chloride	41	4.591	4.582	(0.567)	764037	100.000	103	
19 Methyl tert-butyl ether	73	5.242	5.240	(0.647)	2956166	200.000	215	
20 Acetonitrile	39	5.599	5.591	(0.691)	125156	1000.00	1060	
21 Di-isopropyl ether	45	5.892	5.891	(0.727)	1972774	100.000	105	
22 Chloroprene	53	6.007	6.005	(0.741)	936553	100.000	99.4	
23 Propionitrile	54	8.002	7.993	(0.988)	719763	1000.00	1200	
24 Methacrylonitrile	41	8.030	8.022	(0.991)	3112210	1000.00	1130	

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9531.D
Report Date: 17-Apr-2012 09:26

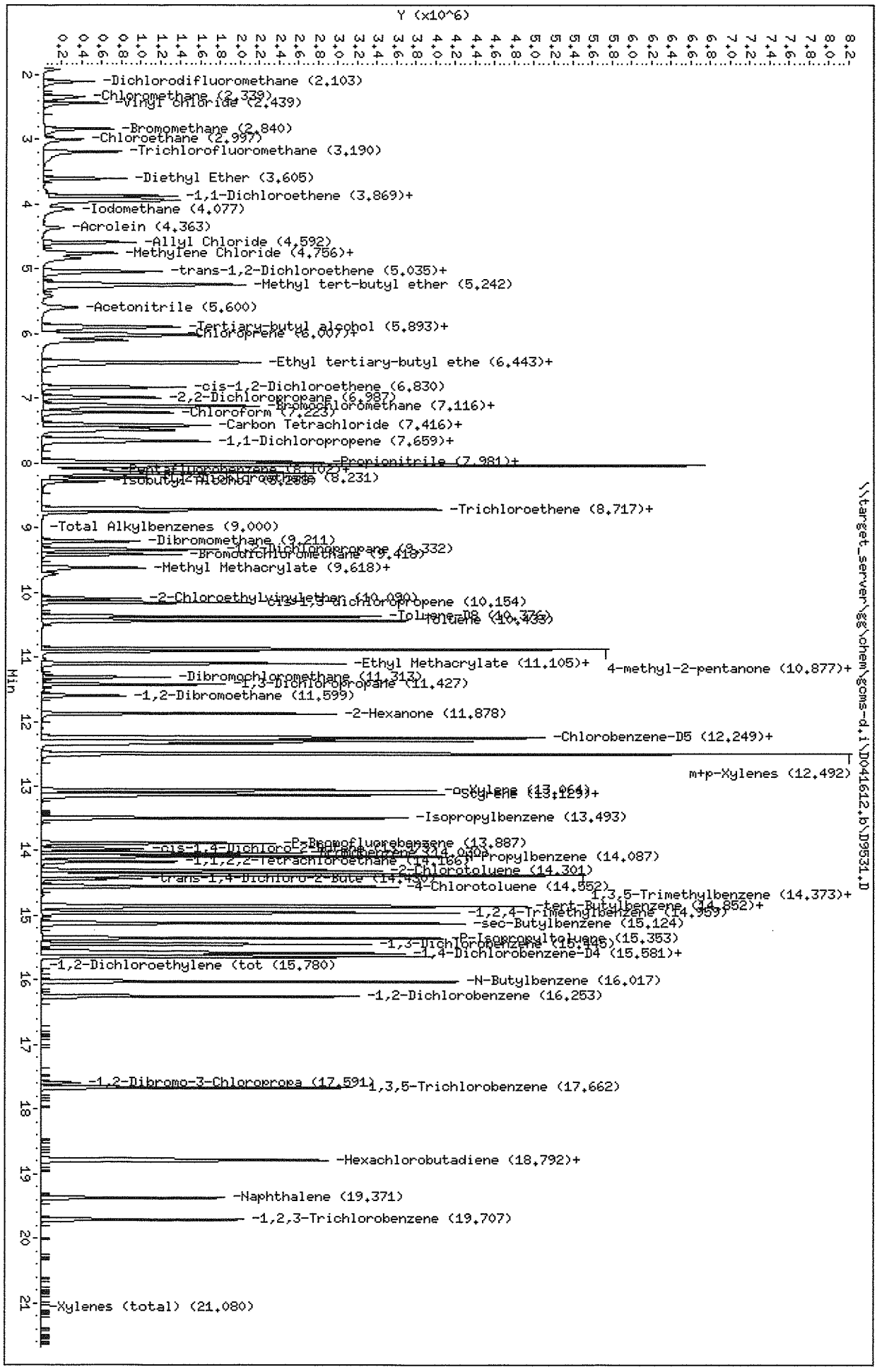
							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.035	6.027	(0.745)	1063747	100.000	94.6	
	26 Acrylonitrile	52	6.100	6.098	(0.753)	813000	500.000	570	
	27 Ethyl tertiary-butyl ether	59	6.450	6.441	(0.796)	1803933	100.000	112	
	28 Vinyl Acetate	43	6.443	6.441	(0.736)	1335729	100.000	106	
	29 cis-1,2-Dichloroethene	96	6.829	6.828	(0.843)	635200	100.000	96.9	
M	30 1,2-Dichloroethylene (total)	96				1215969	100.000	(a)	
	31 Methyl Methacrylate	41	9.618	9.609	(1.098)	455893	100.000	105	
	32 2,2-Dichloropropane	77	6.986	6.978	(0.862)	844573	100.000	104	
	33 Bromochloromethane	128	7.101	7.092	(0.876)	229393	100.000	92.2	
	34 Chloroform	83	7.222	7.214	(0.891)	984369	100.000	95.0	
	35 Carbon Tetrachloride	117	7.401	7.400	(0.845)	742091	100.000	101	
	36 Tetrahydrofuran	42	7.423	7.421	(0.916)	757631	500.000	531	
$	37 Dibromofluoromethane	113	7.465	7.457	(0.921)	515715	100.000	101	
	38 1,1,1-Trichloroethane	97	7.494	7.485	(0.925)	887557	100.000	97.2	
	39 1,1-Dichloropropene	75	7.658	7.657	(0.874)	847472	100.000	99.0	
	40 2-Butanone	43	7.630	7.628	(0.942)	1106802	500.000	538	
	41 Benzene	78	7.980	7.972	(0.911)	2689199	100.000	101	
*	42 Pentafluorobenzene	168	8.102	8.100	(1.000)	524791	50.0000		
	43 Cyclohexane	56	7.122	7.114	(0.879)	1049296	100.000	99.0	
	44 Ethyl Methacrylate	69	11.112	11.103	(1.269)	743175	100.000	102	
$	45 1,2-Dichloroethane-D4	65	8.145	8.135	(1.005)	623505	100.000	104	
	46 Tertiary-amyl methyl ether	73	8.152	8.150	(1.006)	1619237	100.000	114	
	47 1,2-Dichloroethane	62	8.230	8.222	(0.940)	742125	100.000	101	
	48 Trichloroethene	95	8.717	8.708	(0.995)	669659	100.000	93.0	
*	49 1,4-Difluorobenzene	114	8.760	8.751	(1.000)	932961	50.0000		
	50 Dibromomethane	93	9.210	9.209	(1.051)	338455	100.000	105	
	51 1,2-Dichloropropane	63	9.332	9.330	(1.065)	631617	100.000	102	
	52 Bromodichloromethane	83	9.417	9.409	(1.075)	817350	100.000	106	
	53 cis-1,3-dichloropropene	75	10.154	10.152	(1.159)	1049537	100.000	113	
	54 1,4-Dioxane	88	9.653	9.652	(1.102)	112682	2000.00	2050	
$	55 Toluene-D8	98	10.376	10.374	(1.184)	2229156	100.000	108	
	56 2-Chloroethylvinylether	63	10.090	10.088	(1.152)	381486	100.000	106	
	57 Toluene	92	10.440	10.431	(1.192)	1730146	100.000	102	
	58 4-methyl-2-pentanone	43	10.869	10.867	(1.241)	2542944	500.000	535	
	59 Tetrachloroethene	164	10.883	10.882	(0.889)	527903	100.000	96.1	
	60 trans-1,3-Dichloropropene	75	10.912	10.903	(1.246)	894391	100.000	97.3	
	61 1,1,2-Trichloroethane	83	11.098	11.089	(1.267)	476114	100.000	110	
	62 Dibromochloromethane	129	11.312	11.304	(0.924)	603055	100.000	111	
	63 1,3-Dichloropropane	76	11.427	11.418	(0.933)	1004358	100.000	103	
	64 1,2-Dibromoethane	107	11.598	11.590	(1.324)	541694	100.000	112	
	65 2-Hexanone	43	11.877	11.876	(0.970)	1745830	500.000	548	
*	66 Chlorobenzene-D5	117	12.242	12.233	(1.000)	964739	50.0000		
	67 Chlorobenzene	112	12.263	12.254	(1.002)	1868703	100.000	102	
	152 1-Chlorohexane	91	12.242	12.233	(1.000)	1032142	100.000	99.5	
	68 Ethylbenzene	106	12.306	12.297	(1.005)	1026417	100.000	96.9	
	69 1,1,1,2-Tetrachloroethane	131	12.342	12.340	(1.008)	603349	100.000	102	
M	70 Xylenes (total)	106				3916352	300.000	(a)	
	71 m+p-Xylenes	106	12.492	12.490	(1.020)	2691462	200.000	203	
	72 o-Xylene	106	13.064	13.055	(1.067)	1224890	100.000	105	
	73 Styrene	104	13.128	13.127	(1.072)	2141072	100.000	108	
	74 Bromoform	173	13.157	13.148	(1.075)	367585	100.000	104	
	75 Isopropylbenzene	105	13.493	13.491	(0.867)	2635153	100.000	102	
$	76 P-Bromofluorobenzene	95	13.886	13.878	(1.585)	875019	100.000	108	
	77 cis-1,4-Dichloro-2-Butene	53	13.972	13.963	(0.898)	214669	100.000	120	

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9531.D
Report Date: 17-Apr-2012 09:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.430	14.428	(0.927)	205899	100.000	108	
79	Bromobenzene	156	14.036	14.028	(0.902)	724571	100.000	104	
80	N-Propylbenzene	91	14.086	14.078	(0.905)	3643514	100.000	99.5	
81	1,1,2,2-Tetrachloroethane	83	14.165	14.164	(0.910)	750236	100.000	112	
82	1,3,5-Trimethylbenzene	105	14.372	14.371	(0.924)	2675316	100.000	105	
83	2-Chlorotoluene	91	14.301	14.299	(0.919)	2183240	100.000	99.6	
84	1,2,3-Trichloropropane	75	14.365	14.357	(0.923)	619437	100.000	112	
85	4-Chlorotoluene	91	14.551	14.543	(0.935)	2245995	100.000	100	
86	tert-Butylbenzene	119	14.852	14.843	(0.955)	2592553	100.000	105	
87	Pentachloroethane	117	14.866	14.864	(0.955)	547417	100.000	108	
88	1,2,4-Trimethylbenzene	105	14.959	14.950	(0.961)	2618523	100.000	103	
89	P-Isopropyltoluene	119	15.352	15.343	(0.987)	2615718	100.000	104	
90	1,3-Dichlorobenzene	146	15.445	15.436	(0.993)	1407937	100.000	99.1	
* 91	1,4-Dichlorobenzene-D4	152	15.559	15.558	(1.000)	487574	50.0000		
92	1,4-Dichlorobenzene	146	15.588	15.579	(1.002)	1477430	100.000	96.9	
93	N-Butylbenzene	91	16.017	16.015	(1.029)	2645650	100.000	102	
94	sec-Butylbenzene	105	15.123	15.115	(0.972)	3310632	100.000	100	
95	1,2-Dichlorobenzene	146	16.253	16.251	(1.045)	1351487	100.000	103	
96	1,2-Dibromo-3-Chloropropane	75	17.590	17.588	(1.131)	112359	100.000	108	
97	1,3,5-Trichlorobenzene	180	17.662	17.660	(1.135)	1018454	100.000	105	
98	Hexachlorobutadiene	225	18.770	18.768	(1.206)	367984	100.000	101	
99	1,2,4-Trichlorobenzene	180	18.791	18.790	(1.208)	813985	100.000	102	
100	1,2,3-Trimethylbenzene	105	15.631	15.629	(1.005)	2460453	100.000	102	
101	Naphthalene	128	19.370	19.369	(1.245)	1565010	100.000	107	
102	1,2,3-Trichlorobenzene	180	19.714	19.705	(1.267)	660902	100.000	116	
103	Methyl Acetate	43	5.070	5.069	(0.626)	383776	100.000	109	
104	Methylcyclohexane	83	8.710	8.708	(1.075)	1060722	100.000	100	
M 153	Total Alkylbenzenes	100				20101906	100.000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Y (x10^6)
Min
-Dichlorodifluoromethane (2,103)
-Chloromethane (2,339)
-Vinyl chloride (2,439)
-Bromomethane (2,840)
-Chloroethane (2,997)
-Trichlorofluoromethane (3,190)
-Diethyl Ether (3,605)
-1,1-Dichloroethene (3,869)+
-Iodomethane (4,077)
-Acrolein (4,363)
-Allyl Chloride (4,592)
-Methylene Chloride (4,756)+
-trans-1,2-Dichloroethene (5,035)+
-Methyl tert-butyl ether (5,242)
-Acetonitrile (5,600)
-Tertiary-butyl alcohol (5,893)+
-Chloroprene (6,007)+
-Ethyl tertiary-butyl ethe (6,443)+
-cis-1,2-Dichloroethene (6,830)
-2,2-Dichloropropane (6,987)
-Bromochloromethane (7,116)+
-Chloroform (7,223)
-Carbon Tetrachloride (7,416)+
-1,1-Dichloropropene (7,659)+
-Propionitrile (7,981)+
-Isobutyl Alcohol (8,231)
-Trichloroethene (8,717)+
-Total Alkylbenzenes (9,000)
-Dibromomethane (9,211)
-Bromodichloromethane (9,418)
-Methyl Methacrylate (9,618)+
-2-Chloroethylvinylether (10,090)
-cis-1,3-Dichloropropene (10,154)
-Toluene-D8 (10,376)
-Toluene (10,433)
-Ethyl Methacrylate (11,105)+
4-methyl-2-pentanone (10,877)+
-Dibromochloromethane (11,313)
-1,3-Dichloropropane (11,427)
-1,2-Dibromoethane (11,599)
-2-Hexanone (11,878)
-Chlorobenzene-D5 (12,249)+
m+p-Xylenes (12,492)
-o-Xylene (13,064)+
-Styrene (13,129)+
-Isopropylbenzene (13,493)
-P-Bromofluorobenzene (13,887)
-cis-1,4-Dichloro-2-Butene (14,040)+
-n-Propylbenzene (14,087)
-1,1,2,2-Tetrachloroethane (14,166)+
-2-Chlorotoluene (14,301)
-trans-1,4-Dichloro-2-Bute (14,430)+
-4-Chlorotoluene (14,552)
-1,3,5-Trimethylbenzene (14,373)+
-tert-Butylbenzene (14,852)+
-1,2,4-Trimethylbenzene (14,959)
-sec-Butylbenzene (15,124)
-P-Isopropyltoluene (15,353)
-1,3-Dichlorobenzene (15,445)
-1,4-Dichlorobenzene-D4 (15,581)+
-1,2-Dichloroethylene (tot (15,780)
-N-Butylbenzene (16,017)
-1,2-Dichlorobenzene (16,253)
-1,2-Dibromo-3-Chloroprop (17,591)
-1,3,5-Trichlorobenzene (17,662)
-Hexachlorobutadiene (18,792)+
-Naphthalene (19,371)
-1,2,3-Trichlorobenzene (19,707)
-Xylenes (total) (21,080)
\\target_server\gg\chem\gcms-d.i\D041612.b\D9531.D
Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9531.D
Date : 16-APR-2012 10:54
Client ID:
Sample Info: WG107009-5,VSTD100D16A
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: DCA
Column diameter: 0.18

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9532.D
Report Date: 17-Apr-2012 09:26

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D041612.b\D9532.D
Lab Smp Id: VSTD050D16A
Inj Date : 16-APR-2012 11:22
Operator : DCA Inst ID: gcms-d.i
Smp Info : WG107009-4,VSTD050D16A
Misc Info : SW846 8260B
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D041612.b\D826A91.m
Meth Date : 17-Apr-2012 09:24 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 11:22 Cal File: D9532.D
Als bottle: 3 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	2.103	2.101	(0.259)	306656	50.0000	46.2	
2	Chloromethane	50	2.339	2.337	(0.288)	400263	50.0000	45.5	
3	Vinyl chloride	62	2.446	2.437	(0.302)	376622	50.0000	49.0	
4	Bromomethane	94	2.847	2.838	(0.351)	275656	50.0000	49.2	
5	Chloroethane	64	3.004	3.002	(0.370)	252452	50.0000	44.9	
6	Trichlorofluoromethane	101	3.197	3.181	(0.394)	481343	50.0000	44.5	
7	Diethyl Ether	59	3.605	3.603	(0.445)	224233	50.0000	47.8	
8	Tertiary-butyl alcohol	59	5.893	5.884	(0.727)	102920	250.000	258	
9	1,1-Dichloroethene	96	3.876	3.867	(0.478)	274952	50.0000	45.8	
10	Carbon Disulfide	76	3.919	3.903	(0.483)	1041466	50.0000	47.5	
11	Freon-113	151	3.948	3.939	(0.487)	175500	50.0000	44.4	
12	Iodomethane	142	4.084	4.067	(0.504)	244674	50.0000	45.2	
13	Acrolein	56	4.362	4.361	(0.538)	169707	250.000	269	
14	Methylene Chloride	84	4.763	4.754	(0.587)	338770	50.0000	56.5	
15	Acetone	43	4.834	4.833	(0.596)	275276	250.000	210	
16	Isobutyl Alcohol	43	8.288	8.279	(1.022)	124925	1000.00	970	
17	trans-1,2-Dichloroethene	96	5.042	5.033	(0.622)	326088	50.0000	55.3	
18	Allyl Chloride	41	4.591	4.582	(0.566)	382027	50.0000	47.8	
19	Methyl tert-butyl ether	73	5.242	5.240	(0.646)	1355669	100.000	101	
20	Acetonitrile	39	5.599	5.591	(0.691)	51342	500.000	443	
21	Di-isopropyl ether	45	5.893	5.891	(0.727)	914877	50.0000	49.9	
22	Chloroprene	53	6.007	6.005	(0.741)	440995	50.0000	47.9	
23	Propionitrile	54	7.995	7.993	(0.986)	273644	500.000	465	
24	Methacrylonitrile	41	8.030	8.022	(0.990)	1290134	500.000	479	

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Report Date: 17-Apr-2012 09:26

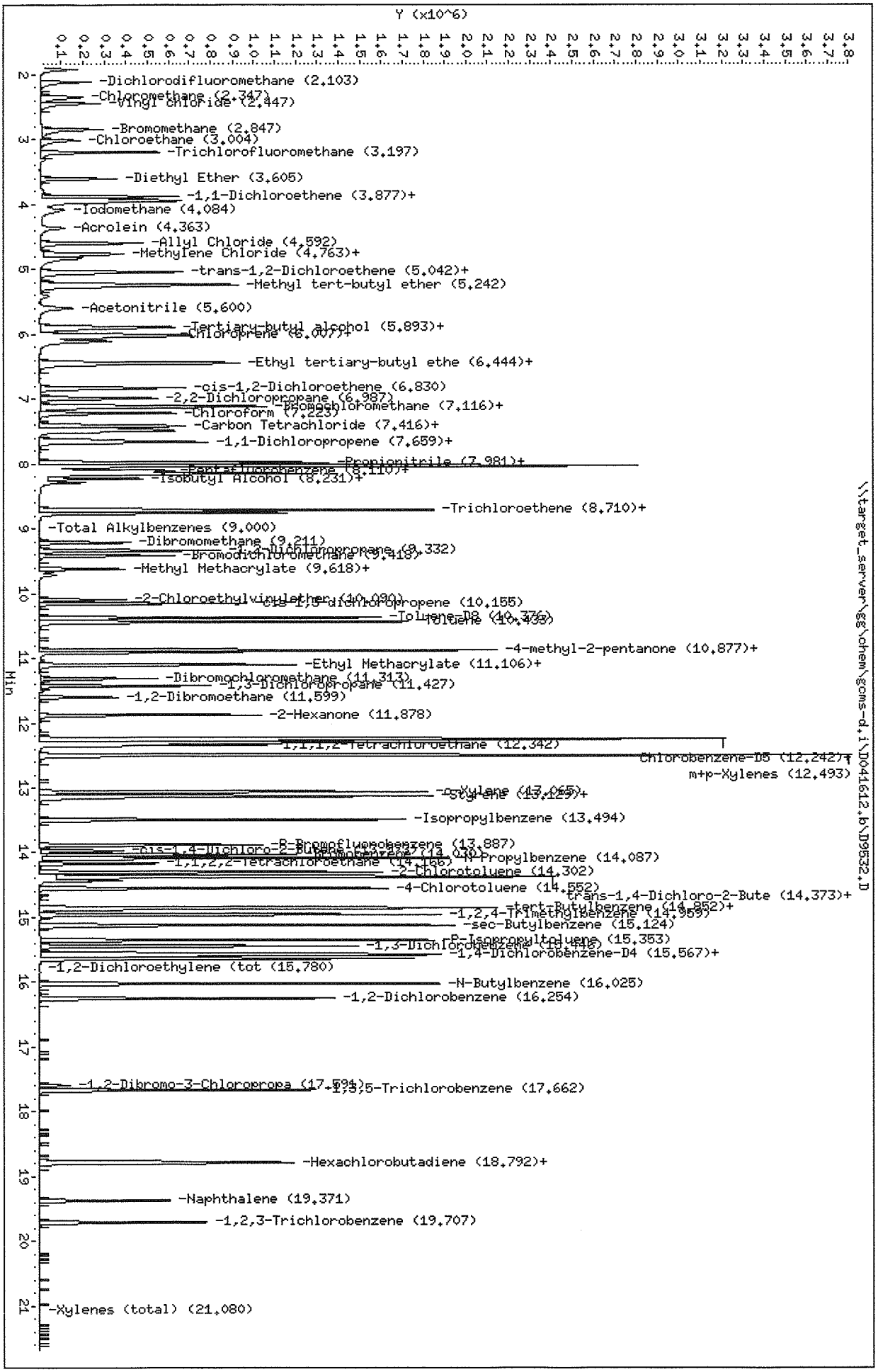
							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.036	6.027	(0.744)	512592	50.0000	46.7	
	26 Acrylonitrile	52	6.100	6.098	(0.752)	324643	250.000	233	
	27 Ethyl tertiary-butyl ether	59	6.443	6.441	(0.795)	786621	50.0000	49.8	
	28 Vinyl Acetate	43	6.443	6.441	(0.736)	542170	50.0000	44.2	
	29 cis-1,2-Dichloroethene	96	6.836	6.828	(0.843)	309001	50.0000	48.2	
M	30 1,2-Dichloroethylene (total)	96				635089	50.0000	(a)	
	31 Methyl Methacrylate	41	9.618	9.609	(1.098)	176535	50.0000	42.7	
	32 2,2-Dichloropropane	77	6.987	6.978	(0.862)	388539	50.0000	48.7	
	33 Bromochloromethane	128	7.101	7.092	(0.876)	113615	50.0000	46.7	
	34 Chloroform	83	7.222	7.214	(0.891)	482046	50.0000	47.6	
	35 Carbon Tetrachloride	117	7.401	7.400	(0.845)	345803	50.0000	47.1	
	36 Tetrahydrofuran	42	7.423	7.421	(0.915)	286423	250.000	213	
$	37 Dibromofluoromethane	113	7.466	7.457	(0.921)	244752	50.0000	49.1	
	38 1,1,1-Trichloroethane	97	7.494	7.485	(0.924)	419527	50.0000	47.0	
	39 1,1-Dichloropropene	75	7.659	7.657	(0.874)	401012	50.0000	46.9	
	40 2-Butanone	43	7.630	7.628	(0.941)	409441	250.000	211	
	41 Benzene	78	7.980	7.972	(0.911)	1258527	50.0000	47.4	
*	42 Pentafluorobenzene	168	8.109	8.100	(1.000)	512824	50.0000		
	43 Cyclohexane	56	7.122	7.114	(0.878)	501181	50.0000	48.4	
	44 Ethyl Methacrylate	69	11.105	11.103	(1.268)	284225	50.0000	41.5	
$	45 1,2-Dichloroethane-D4	65	8.145	8.135	(1.004)	285856	50.0000	48.8	
	46 Tertiary-amyl methyl ether	73	8.152	8.150	(1.005)	672083	50.0000	48.3	
	47 1,2-Dichloroethane	62	8.231	8.222	(0.940)	339291	50.0000	46.4	
	48 Trichloroethene	95	8.717	8.708	(0.995)	300411	50.0000	43.7	
*	49 1,4-Difluorobenzene	114	8.760	8.751	(1.000)	932400	50.0000		
	50 Dibromomethane	93	9.210	9.209	(1.051)	148889	50.0000	46.3	
	51 1,2-Dichloropropane	63	9.332	9.330	(1.065)	295297	50.0000	47.8	
	52 Bromodichloromethane	83	9.418	9.409	(1.075)	375455	50.0000	48.8	
	53 cis-1,3-dichloropropene	75	10.154	10.152	(1.159)	474244	50.0000	51.0	
	54 1,4-Dioxane	88	9.654	9.652	(1.102)	47879	1000.00	883	
$	55 Toluene-D8	98	10.376	10.374	(1.184)	1041974	50.0000	50.7	
	56 2-Chloroethylvinylether	63	10.090	10.088	(1.152)	148939	50.0000	43.0	
	57 Toluene	92	10.433	10.431	(1.191)	798240	50.0000	47.2	
	58 4-methyl-2-pentanone	43	10.869	10.867	(1.241)	962070	250.000	206	
	59 Tetrachloroethene	164	10.883	10.882	(0.889)	225863	50.0000	45.2	
	60 trans-1,3-Dichloropropene	75	10.912	10.903	(1.246)	387436	50.0000	44.1	
	61 1,1,2-Trichloroethane	83	11.098	11.089	(1.267)	201002	50.0000	46.5	
	62 Dibromochloromethane	129	11.312	11.304	(0.924)	257065	50.0000	50.6	
	63 1,3-Dichloropropane	76	11.427	11.418	(0.933)	447456	50.0000	49.4	
	64 1,2-Dibromoethane	107	11.598	11.590	(1.324)	230113	50.0000	47.6	
	65 2-Hexanone	43	11.877	11.876	(0.970)	616990	250.000	196	
*	66 Chlorobenzene-D5	117	12.242	12.233	(1.000)	898413	50.0000		
	67 Chlorobenzene	112	12.263	12.254	(1.002)	858198	50.0000	50.0	
	152 1-Chlorohexane	91	12.242	12.233	(1.000)	473992	50.0000	49.2	
	68 Ethylbenzene	106	12.306	12.297	(1.005)	462676	50.0000	46.9	
	69 1,1,1,2-Tetrachloroethane	131	12.342	12.340	(1.008)	273466	50.0000	49.9	
M	70 Xylenes (total)	106				1763015	150.000	(a)	
	71 m+p-Xylenes	106	12.492	12.490	(1.020)	1210309	100.000	98.0	
	72 o-Xylene	106	13.064	13.055	(1.067)	552706	50.0000	50.9	
	73 Styrene	104	13.129	13.127	(1.072)	962375	50.0000	52.4	
	74 Bromoform	173	13.157	13.148	(1.075)	141267	50.0000	44.3	
	75 Isopropylbenzene	105	13.493	13.491	(0.867)	1220891	50.0000	50.5	
$	76 P-Bromofluorobenzene	95	13.879	13.878	(1.584)	398282	50.0000	49.2	
	77 cis-1,4-Dichloro-2-Butene	53	13.972	13.963	(0.898)	82805	50.0000	49.2	

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9532.D
Report Date: 17-Apr-2012 09:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.430	14.428	(0.927)	79497	50.0000	45.2	
79	Bromobenzene	156	14.029	14.028	(0.902)	321330	50.0000	49.2	
80	N-Propylbenzene	91	14.087	14.078	(0.905)	1739915	50.0000	50.6	
81	1,1,2,2-Tetrachloroethane	83	14.165	14.164	(0.910)	300040	50.0000	47.7	
82	1,3,5-Trimethylbenzene	105	14.373	14.371	(0.924)	1208539	50.0000	50.4	
83	2-Chlorotoluene	91	14.301	14.299	(0.919)	1017845	50.0000	49.5	
84	1,2,3-Trichloropropane	75	14.365	14.357	(0.923)	241665	50.0000	46.8	
85	4-Chlorotoluene	91	14.551	14.543	(0.935)	1045102	50.0000	49.8	
86	tert-Butylbenzene	119	14.852	14.843	(0.955)	1150118	50.0000	49.8	
87	Pentachloroethane	117	14.866	14.864	(0.955)	237106	50.0000	49.8	
88	1,2,4-Trimethylbenzene	105	14.959	14.950	(0.961)	1196039	50.0000	50.3	
89	P-Isopropyltoluene	119	15.352	15.343	(0.987)	1195545	50.0000	51.0	
90	1,3-Dichlorobenzene	146	15.445	15.436	(0.993)	629759	50.0000	47.3	
* 91	1,4-Dichlorobenzene-D4	152	15.560	15.558	(1.000)	457309	50.0000		
92	1,4-Dichlorobenzene	146	15.588	15.579	(1.002)	662804	50.0000	46.3	
93	N-Butylbenzene	91	16.017	16.015	(1.029)	1218923	50.0000	50.3	
94	sec-Butylbenzene	105	15.123	15.115	(0.972)	1532980	50.0000	49.5	
95	1,2-Dichlorobenzene	146	16.253	16.251	(1.045)	590653	50.0000	48.2	
96	1,2-Dibromo-3-Chloropropane	75	17.590	17.588	(1.131)	39091	50.0000	40.3	
97	1,3,5-Trichlorobenzene	180	17.669	17.660	(1.136)	433471	50.0000	47.7	
98	Hexachlorobutadiene	225	18.770	18.768	(1.206)	152939	50.0000	48.0	
99	1,2,4-Trichlorobenzene	180	18.791	18.790	(1.208)	323690	50.0000	46.7	
100	1,2,3-Trimethylbenzene	105	15.631	15.629	(1.005)	1125164	50.0000	50.0	
101	Naphthalene	128	19.378	19.369	(1.245)	529495	50.0000	40.0	
102	1,2,3-Trichlorobenzene	180	19.714	19.705	(1.267)	255598	50.0000	47.8	
103	Methyl Acetate	43	5.070	5.069	(0.625)	166692	50.0000	48.5	
104	Methylcyclohexane	83	8.710	8.708	(1.074)	499483	50.0000	48.4	
M 153	Total Alkylbenzenes	100				9242059	50.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9532.D
Date : 16-APR-2012 11:22
Client ID:
Sample Info: WG107009-4,VSTD050D16A
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: DCA
Column diameter: 0.18
Y (x10^6)
Min
\\target_server\gg\chem\gcms-d.i\D041612.b\D9532.D
-Dichlorodifluoromethane (2.103)
-Chloromethane (2.347)
-Vinyl chloride (2.447)
-Bromomethane (2.847)
-Chloroethane (3.004)
-Trichlorofluoromethane (3.197)
-Diethyl Ether (3.605)
-1,1-Dichloroethene (3.877)+
-Iodomethane (4.084)
-Acrolein (4.363)
-Allyl Chloride (4.592)
-Methylene Chloride (4.763)+
-trans-1,2-Dichloroethene (5.042)+
-Methyl tert-butyl ether (5.242)
-Acetonitrile (5.600)
-Tertiary-butyl alcohol (5.893)+
-Chloroprene (6.007)+
-Ethyl tertiary-butyl ethe (6.444)+
-cis-1,2-Dichloroethene (6.830)
-2,2-Dichloropropane (6.987)
-Bromochloromethane (7.116)+
-Chloroform (7.223)
-Carbon Tetrachloride (7.416)+
-1,1-Dichloropropene (7.659)+
-Propionitrile (7.981)+
-Pentafluorobenzene (8.110)+
-Isobutyl Alcohol (8.231)+
-Trichloroethene (8.710)+
-Total Alkylbenzenes (9.000)
-Dibromomethane (9.211)
-2,4-Dichloropropane (9.332)
-Bromodichloromethane (9.418)+
-Methyl Methacrylate (9.618)+
-2-Chloroethylvinylether (10.090)
-cis-1,3-Dichloropropene (10.155)
-Toluene-D8 (10.376)
-Toluene (10.433)
-4-methyl-2-pentanone (10.877)+
-Ethyl Methacrylate (11.106)+
-Dibromochloromethane (11.313)
-1,3-Dichloropropane (11.427)
-1,2-Dibromoethane (11.599)
-2-Hexanone (11.878)
-1,1,1,2-Tetrachloroethane (12.342)
Chlorobenzene-D5 (12.242)+
m+p-Xylenes (12.493)
-o-Xylene (13.065)
-Styrene (13.129)+
-Isopropylbenzene (13.494)
-Bromofluorobenzene (13.887)
-cis-1,4-Dichloro-2-Butene (13.940)
-Bromoform (14.040)+
-N-Propylbenzene (14.087)
-1,1,2,2-Tetrachloroethane (14.166)
-2-Chlorotoluene (14.302)
-4-Chlorotoluene (14.552)
trans-1,4-Dichloro-2-Bute (14.373)+
-tert-Butylbenzene (14.852)+
-1,2,4-Trimethylbenzene (14.959)
-sec-Butylbenzene (15.124)
-P-Isopropyltoluene (15.353)
-1,3-Dichlorobenzene (15.446)
-1,4-Dichlorobenzene-D4 (15.567)+
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (16.025)
-1,2-Dichlorobenzene (16.254)
-1,2-Dibromo-3-Chloropropa (17.594)
-1,3,5-Trichlorobenzene (17.662)
-Hexachlorobutadiene (18.792)+
-Naphthalene (19.371)
-1,2,3-Trichlorobenzene (19.707)
-Xylenes (total) (21.080)

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9533.D
Report Date: 17-Apr-2012 09:26

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D041612.b\D9533.D
Lab Smp Id: VSTD020D16A
Inj Date : 16-APR-2012 11:50
Operator : DCA Inst ID: gcms-d.i
Smp Info : WG107009-3,VSTD020D16A
Misc Info : SW846 8260B
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D041612.b\D826A91.m
Meth Date : 17-Apr-2012 09:24 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 11:50 Cal File: D9533.D
Als bottle: 4 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	2.103	2.101	(0.259)	136306	20.0000	20.0	
2	Chloromethane	50	2.346	2.337	(0.289)	175428	20.0000	19.4	
3	Vinyl chloride	62	2.446	2.437	(0.302)	173113	20.0000	21.6	
4	Bromomethane	94	2.847	2.838	(0.351)	104772	20.0000	18.2	
5	Chloroethane	64	3.011	3.002	(0.371)	110410	20.0000	19.2	
6	Trichlorofluoromethane	101	3.197	3.181	(0.394)	206303	20.0000	18.6	
7	Diethyl Ether	59	3.605	3.603	(0.445)	85664	20.0000	17.8	
8	Tertiary-butyl alcohol	59	5.893	5.884	(0.727)	39700	100.000	97.0	
9	1,1-Dichloroethene	96	3.876	3.867	(0.478)	113612	20.0000	19.8	
10	Carbon Disulfide	76	3.919	3.903	(0.483)	417237	20.0000	19.3	
11	Freon-113	151	3.948	3.939	(0.487)	72436	20.0000	19.6	
12	Iodomethane	142	4.077	4.067	(0.503)	109111	20.0000	19.7	
13	Acrolein	56	4.363	4.361	(0.538)	59748	100.000	92.5	
14	Methylene Chloride	84	4.763	4.754	(0.587)	120180	20.0000	18.6	
15	Acetone	43	4.835	4.833	(0.596)	94855	100.000	70.5	
16	Isobutyl Alcohol	43	8.288	8.279	(1.022)	41452	400.000	314	
17	trans-1,2-Dichloroethene	96	5.042	5.033	(0.622)	114793	20.0000	18.5	
18	Allyl Chloride	41	4.592	4.582	(0.566)	142983	20.0000	16.9	
19	Methyl tert-butyl ether	73	5.242	5.240	(0.646)	463340	40.0000	33.6	
20	Acetonitrile	39	5.593	5.591	(0.690)	20252	200.000	170	
21	Di-isopropyl ether	45	5.893	5.891	(0.727)	355460	20.0000	18.9	
22	Chloroprene	53	6.014	6.005	(0.742)	174167	20.0000	18.4	
23	Propionitrile	54	7.995	7.993	(0.986)	100214	200.000	166	
24	Methacrylonitrile	41	8.031	8.022	(0.990)	484850	200.000	176	

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9533.D
Report Date: 17-Apr-2012 09:26

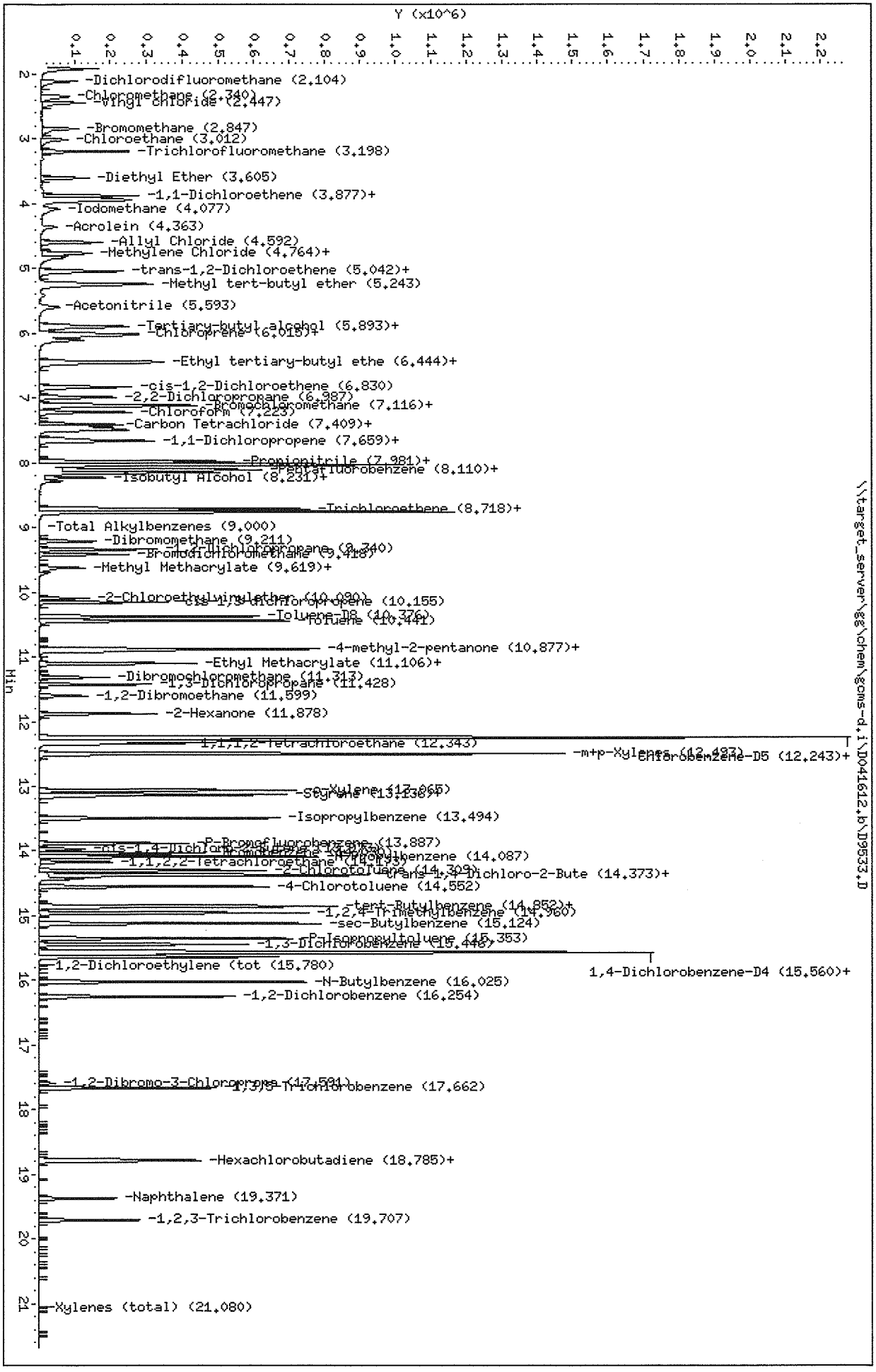
			QUANT SIG					AMOUNTS CAL-AMT	ON-COL	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	6.036	6.027	(0.744)	206503	20.0000	18.3	
	26	Acrylonitrile	52	6.100	6.098	(0.752)	113802	100.000	79.7	
	27	Ethyl tertiary-butyl ether	59	6.451	6.441	(0.795)	295943	20.0000	18.2	
	28	Vinyl Acetate	43	6.443	6.441	(0.736)	195346	20.0000	16.9	
	29	cis-1,2-Dichloroethene	96	6.829	6.828	(0.842)	123191	20.0000	18.7	
M	30	1,2-Dichloroethylene (total)	96				237984	20.0000	(a)	
	31	Methyl Methacrylate	41	9.618	9.609	(1.098)	59436	20.0000	16.0	
	32	2,2-Dichloropropane	77	6.987	6.978	(0.862)	149502	20.0000	18.3	
	33	Bromochloromethane	128	7.101	7.092	(0.876)	47671	20.0000	19.1	
	34	Chloroform	83	7.223	7.214	(0.891)	196251	20.0000	18.9	
	35	Carbon Tetrachloride	117	7.402	7.400	(0.845)	135474	20.0000	17.9	
	36	Tetrahydrofuran	42	7.430	7.421	(0.916)	99501	100.000	80.9	
$	37	Dibromofluoromethane	113	7.466	7.457	(0.921)	99973	20.0000	19.5	
	38	1,1,1-Trichloroethane	97	7.494	7.485	(0.924)	166487	20.0000	18.2	
	39	1,1-Dichloropropene	75	7.659	7.657	(0.874)	162582	20.0000	18.4	
	40	2-Butanone	43	7.630	7.628	(0.941)	142707	100.000	80.1	
	41	Benzene	78	7.981	7.972	(0.911)	505023	20.0000	18.4	
*	42	Pentafluorobenzene	168	8.109	8.100	(1.000)	525952	50.0000		
	43	Cyclohexane	56	7.123	7.114	(0.878)	198838	20.0000	18.7	
	44	Ethyl Methacrylate	69	11.112	11.103	(1.269)	98341	20.0000	16.6	
$	45	1,2-Dichloroethane-D4	65	8.145	8.135	(1.004)	111877	20.0000	18.6	
	46	Tertiary-amyl methyl ether	73	8.152	8.150	(1.005)	243765	20.0000	17.1	
	47	1,2-Dichloroethane	62	8.231	8.222	(0.940)	134645	20.0000	17.9	
	48	Trichloroethene	95	8.717	8.708	(0.995)	118635	20.0000	19.0	
*	49	1,4-Difluorobenzene	114	8.760	8.751	(1.000)	961827	50.0000		
	50	Dibromomethane	93	9.210	9.209	(1.051)	57821	20.0000	17.4	
	51	1,2-Dichloropropane	63	9.339	9.330	(1.066)	115386	20.0000	18.1	
	52	Bromodichloromethane	83	9.418	9.409	(1.075)	145338	20.0000	18.3	
	53	cis-1,3-dichloropropene	75	10.154	10.152	(1.159)	180784	20.0000	18.8	
	54	1,4-Dioxane	88	9.654	9.652	(1.102)	20816	400.000	383	
$	55	Toluene-D8	98	10.376	10.374	(1.184)	414903	20.0000	19.6	
	56	2-Chloroethylvinylether	63	10.090	10.088	(1.152)	53054	20.0000	16.6	
	57	Toluene	92	10.440	10.431	(1.192)	320800	20.0000	18.4	
	58	4-methyl-2-pentanone	43	10.869	10.867	(1.241)	331162	100.000	78.9	
	59	Tetrachloroethene	164	10.884	10.882	(0.889)	90246	20.0000	19.2	
	60	trans-1,3-Dichloropropene	75	10.912	10.903	(1.246)	143482	20.0000	18.0	
	61	1,1,2-Trichloroethane	83	11.098	11.089	(1.267)	76963	20.0000	17.3	
	62	Dibromochloromethane	129	11.313	11.304	(0.924)	94216	20.0000	18.5	
	63	1,3-Dichloropropane	76	11.427	11.418	(0.933)	169974	20.0000	18.6	
	64	1,2-Dibromoethane	107	11.599	11.590	(1.324)	86295	20.0000	17.3	
	65	2-Hexanone	43	11.877	11.876	(0.970)	209443	100.000	75.8	
*	66	Chlorobenzene-D5	117	12.242	12.233	(1.000)	902824	50.0000		
	67	Chlorobenzene	112	12.264	12.254	(1.002)	346868	20.0000	19.8	
	152	1-Chlorohexane	91	12.242	12.233	(1.000)	189608	20.0000	19.7	
	68	Ethylbenzene	106	12.306	12.297	(1.005)	185911	20.0000	18.8	
	69	1,1,1,2-Tetrachloroethane	131	12.342	12.340	(1.008)	105333	20.0000	19.1	
M	70	Xylenes (total)	106				686742	60.0000	(a)	
	71	m+p-Xylenes	106	12.500	12.490	(1.021)	470667	40.0000	37.9	
	72	o-Xylene	106	13.064	13.055	(1.067)	216075	20.0000	19.8	
	73	Styrene	104	13.136	13.127	(1.073)	366327	20.0000	19.8	
	74	Bromoform	173	13.157	13.148	(1.075)	50607	20.0000	17.3	
	75	Isopropylbenzene	105	13.493	13.491	(0.867)	483975	20.0000	19.8	
$	76	P-Bromofluorobenzene	95	13.887	13.878	(1.585)	155339	20.0000	18.6	
	77	cis-1,4-Dichloro-2-Butene	53	13.972	13.963	(0.898)	28838	20.0000	16.9	

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9533.D
Report Date: 17-Apr-2012 09:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.430	14.428	(0.927)	28628	20.0000	17.0	
79	Bromobenzene	156	14.037	14.028	(0.902)	126677	20.0000	19.1	
80	N-Propylbenzene	91	14.087	14.078	(0.905)	692512	20.0000	19.9	
81	1,1,2,2-Tetrachloroethane	83	14.173	14.164	(0.911)	110493	20.0000	17.3	
82	1,3,5-Trimethylbenzene	105	14.373	14.371	(0.924)	478449	20.0000	19.7	
83	2-Chlorotoluene	91	14.309	14.299	(0.920)	406419	20.0000	19.5	
84	1,2,3-Trichloropropane	75	14.366	14.357	(0.923)	90283	20.0000	17.2	
85	4-Chlorotoluene	91	14.552	14.543	(0.935)	418588	20.0000	19.7	
86	tert-Butylbenzene	119	14.852	14.843	(0.955)	446636	20.0000	19.1	
87	Pentachloroethane	117	14.866	14.864	(0.955)	89364	20.0000	18.5	
88	1,2,4-Trimethylbenzene	105	14.959	14.950	(0.961)	471993	20.0000	19.6	
89	P-Isopropyltoluene	119	15.352	15.343	(0.987)	463387	20.0000	19.5	
90	1,3-Dichlorobenzene	146	15.445	15.436	(0.993)	249104	20.0000	18.4	
* 91	1,4-Dichlorobenzene-D4	152	15.560	15.558	(1.000)	463372	50.0000		
92	1,4-Dichlorobenzene	146	15.588	15.579	(1.002)	262114	20.0000	18.1	
93	N-Butylbenzene	91	16.025	16.015	(1.030)	478089	20.0000	19.5	
94	sec-Butylbenzene	105	15.124	15.115	(0.972)	615586	20.0000	19.6	
95	1,2-Dichlorobenzene	146	16.253	16.251	(1.045)	231575	20.0000	18.6	
96	1,2-Dibromo-3-Chloropropane	75	17.590	17.588	(1.131)	12476	20.0000	15.0	
97	1,3,5-Trichlorobenzene	180	17.662	17.660	(1.135)	165072	20.0000	17.9	
98	Hexachlorobutadiene	225	18.770	18.768	(1.206)	60420	20.0000	19.4	
99	1,2,4-Trichlorobenzene	180	18.792	18.790	(1.208)	117752	20.0000	18.0	
100	1,2,3-Trimethylbenzene	105	15.638	15.629	(1.005)	443540	20.0000	19.4	
101	Naphthalene	128	19.378	19.369	(1.245)	184409	20.0000	16.1	
102	1,2,3-Trichlorobenzene	180	19.707	19.705	(1.267)	93367	20.0000	17.2	
103	Methyl Acetate	43	5.071	5.069	(0.625)	54961	20.0000	15.8	
104	Methylcyclohexane	83	8.717	8.708	(1.075)	201993	20.0000	19.1	
M 153	Total Alkylbenzenes	100				3646652	20.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gs\chem\gcms-d.i\D041612.b\D9533.D
Date : 16-APR-2012 11:50
Client ID:
Sample Info: WG107009-3,VSTD020D16A
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: DCA
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane (2.104)
-Chloromethane (2.340)
-Vinyl chloride (2.447)
-Bromomethane (2.847)
-Chloroethane (3.012)
-Trichlorofluoromethane (3.198)
-Diethyl Ether (3.605)
-1,1-Dichloroethene (3.877)+
-Iodomethane (4.077)
-Acrolein (4.363)
-Allyl Chloride (4.592)
-Methylene Chloride (4.764)+
-trans-1,2-Dichloroethene (5.042)+
-Methyl tert-butyl ether (5.243)
-Acetonitrile (5.593)
-Tertiary-butyl alcohol (5.893)+
-Chloroprene (6.015)+
-Ethyl tertiary-butyl ethe (6.444)+
-cis-1,2-Dichloroethene (6.830)
-2,2-Dichloropropane (6.987)
-Bromochloromethane (7.116)+
-Chloroform (7.229)
-Carbon Tetrachloride (7.409)+
-1,1-Dichloropropene (7.659)+
-Propionitrile (7.981)+
-Pentafluorobenzene (8.110)+
-Isobutyl Alcohol (8.231)+
-Trichloroethene (8.718)+
-Total Alkylbenzenes (9.000)
-Dibromomethane (9.211)
-1,4-Dichloropropane (9.340)
-Bromodichloromethane (9.418)
-Methyl Methacrylate (9.619)+
-2-Chloroethylvinylether (10.090)
cis-1,3-Dichloropropene (10.155)
-Toluene-D8 (10.376)
Toluene (10.441)
-4-methyl-2-pentanone (10.877)+
-Ethyl Methacrylate (11.106)+
-Dibromochloromethane (11.317)
1,3-Dichloropropane (11.428)
-1,2-Dibromoethane (11.599)
-2-Hexanone (11.878)
1,1,1,2-Tetrachloroethane (12.343)
-m+p-Xylenes (12.497)
Chlorobenzene-D5 (12.243)+
-o-Xylene (12.865)
-Styrene (13.136)+
-Isopropylbenzene (13.494)
-P-Bromofluorobenzene (13.887)
-cis-1,4-Dichloro-2-Butene (14.030)
-n-Propylbenzene (14.087)
-1,1,2,2-Tetrachloroethane (14.173)
-2-Chlorotoluene (14.309)
-trans-1,4-Dichloro-2-Bute (14.373)+
-4-Chlorotoluene (14.552)
-tert-Butylbenzene (14.852)+
-1,2,4-Trimethylbenzene (14.960)
-sec-Butylbenzene (15.124)
-P-Isopropyltoluene (15.353)
-1,3-Dichlorobenzene (15.446)
-1,2-Dichloroethylene (tot (15.780)
1,4-Dichlorobenzene-D4 (15.560)+
-N-Butylbenzene (16.025)
-1,2-Dichlorobenzene (16.254)
-1,2-Dibromo-3-Chloropropa (17.591)
1,3,5-Trichlorobenzene (17.662)
-Hexachlorobutadiene (18.785)+
-Naphthalene (19.371)
-1,2,3-Trichlorobenzene (19.707)
-Xylenes (total) (21.080)
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Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9534.D
Report Date: 17-Apr-2012 09:26

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D041612.b\D9534.D
Lab Smp Id: VSTD005D16A
Inj Date : 16-APR-2012 12:28 MS Autotune Date: 05-MAR-2010 09:29
Operator : DCA Inst ID: gcms-d.i
Smp Info : WG107009-2,VSTD005D16A
Misc Info : SW846 8260B
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D041612.b\D826A91.m
Meth Date : 17-Apr-2012 09:24 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 12:28 Cal File: D9534.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	2.108	2.101	(0.260)	33328	5.00000	5.1	
2	Chloromethane	50	2.344	2.337	(0.289)	43996	5.00000	5.0	
3	Vinyl chloride	62	2.444	2.437	(0.301)	41161	5.00000	4.8	
4	Bromomethane	94	2.844	2.838	(0.351)	23144	5.00000	4.2	
5	Chloroethane	64	3.016	3.002	(0.372)	27334	5.00000	4.9	
6	Trichlorofluoromethane	101	3.194	3.181	(0.394)	47872	5.00000	4.5	
7	Diethyl Ether	59	3.602	3.603	(0.444)	22280	5.00000	4.8	
8	Tertiary-butyl alcohol	59	5.890	5.884	(0.727)	9694	25.0000	24.5	
9	1,1-Dichloroethene	96	3.881	3.867	(0.479)	27331	5.00000	6.6	
10	Carbon Disulfide	76	3.917	3.903	(0.483)	97329	5.00000	5.6	
11	Freon-113	151	3.952	3.939	(0.488)	18142	5.00000	7.2	
12	Iodomethane	142	4.081	4.067	(0.503)	24352	5.00000	4.5	
13	Acrolein	56	4.360	4.361	(0.538)	15295	25.0000	24.5	
14	Methylene Chloride	84	4.760	4.754	(0.587)	34747	5.00000	4.5(a)	
15	Acetone	43	4.839	4.833	(0.597)	33449	25.0000	25.7	
16	Isobutyl Alcohol	43	8.293	8.279	(1.023)	12529	100.000	98.1	
17	trans-1,2-Dichloroethene	96	5.046	5.033	(0.623)	33528	5.00000	5.0	
18	Allyl Chloride	41	4.596	4.582	(0.567)	37216	5.00000	5.3	
19	Methyl tert-butyl ether	73	5.247	5.240	(0.647)	137399	10.0000	10.3	
20	Acetonitrile	39	5.597	5.591	(0.690)	6446	50.0000	56.2	
21	Di-isopropyl ether	45	5.897	5.891	(0.727)	86300	5.00000	4.8	
22	Chloroprene	53	6.012	6.005	(0.742)	41800	5.00000	4.6	
23	Propionitrile	54	7.999	7.993	(0.987)	29118	50.0000	50.0	
24	Methacrylonitrile	41	8.028	8.022	(0.990)	131278	50.0000	49.2	

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9534.D
Report Date: 17-Apr-2012 09:26

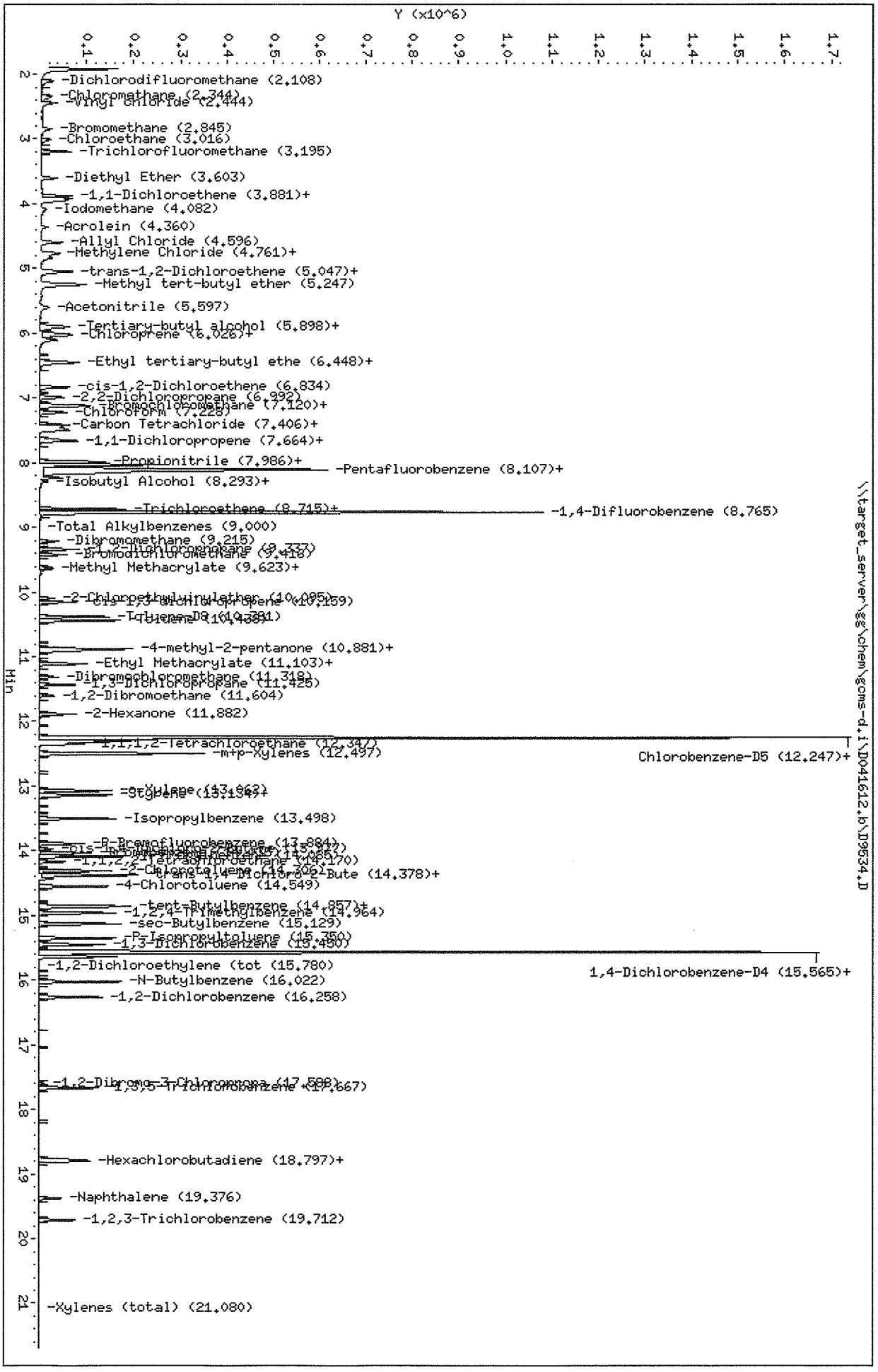
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.040	6.027	(0.745)	51121	5.00000	4.7	
	26 Acrylonitrile	52	6.105	6.098	(0.753)	34258	25.0000	24.8	
	27 Ethyl tertiary-butyl ether	59	6.455	6.441	(0.796)	73724	5.00000	4.7	
	28 Vinyl Acetate	43	6.448	6.441	(0.736)	45216	5.00000	5.7	
	29 cis-1,2-Dichloroethene	96	6.834	6.828	(0.843)	29797	5.00000	4.7	
M	30 1,2-Dichloroethylene (total)	96				63325	5.00000	(a)	
	31 Methyl Methacrylate	41	9.622	9.609	(1.098)	14070	5.00000	6.3	
	32 2,2-Dichloropropane	77	6.991	6.978	(0.862)	34367	5.00000	4.4	
	33 Bromochloromethane	128	7.106	7.092	(0.877)	11485	5.00000	4.8	
	34 Chloroform	83	7.227	7.214	(0.892)	46416	5.00000	4.6	
	35 Carbon Tetrachloride	117	7.406	7.400	(0.845)	32099	5.00000	4.4	
	36 Tetrahydrofuran	42	7.442	7.421	(0.918)	27459	25.0000	32.3	
$	37 Dibromofluoromethane	113	7.463	7.457	(0.921)	23778	5.00000	4.8	
	38 1,1,1-Trichloroethane	97	7.492	7.485	(0.924)	39403	5.00000	4.4	
	39 1,1-Dichloropropene	75	7.663	7.657	(0.874)	40017	5.00000	4.7	
	40 2-Butanone	43	7.635	7.628	(0.942)	40378	25.0000	32.3	
	41 Benzene	78	7.985	7.972	(0.911)	123960	5.00000	4.7	
*	42 Pentafluorobenzene	168	8.107	8.100	(1.000)	508119	50.0000		
	43 Cyclohexane	56	7.127	7.114	(0.879)	47146	5.00000	4.6	
	44 Ethyl Methacrylate	69	11.110	11.103	(1.268)	20030	5.00000	6.7	
$	45 1,2-Dichloroethane-D4	65	8.142	8.135	(1.004)	28917	5.00000	5.0	
	46 Tertiary-amyl methyl ether	73	8.157	8.150	(1.006)	61095	5.00000	4.4	
	47 1,2-Dichloroethane	62	8.228	8.222	(0.939)	34435	5.00000	4.7	
	48 Trichloroethene	95	8.714	8.708	(0.994)	30242	5.00000	7.6	
*	49 1,4-Difluorobenzene	114	8.764	8.751	(1.000)	929483	50.0000		
	50 Dibromomethane	93	9.215	9.209	(1.051)	14541	5.00000	4.5	
	51 1,2-Dichloropropane	63	9.336	9.330	(1.065)	28036	5.00000	4.6	
	52 Bromodichloromethane	83	9.415	9.409	(1.074)	33087	5.00000	4.3	
	53 cis-1,3-dichloropropene	75	10.159	10.152	(1.159)	39711	5.00000	4.3	
	54 1,4-Dioxane	88	9.658	9.652	(1.102)	6390	100.000	135	
$	55 Toluene-D8	98	10.380	10.374	(1.184)	98800	5.00000	4.8	
	56 2-Chloroethylvinylether	63	10.094	10.088	(1.152)	12117	5.00000	6.0	
	57 Toluene	92	10.438	10.431	(1.191)	76885	5.00000	4.6	
	58 4-methyl-2-pentanone	43	10.874	10.867	(1.241)	80647	25.0000	32.5	
	59 Tetrachloroethene	164	10.888	10.882	(0.889)	24209	5.00000	6.9	
	60 trans-1,3-Dichloropropene	75	10.909	10.903	(1.245)	30986	5.00000	6.6	
	61 1,1,2-Trichloroethane	83	11.103	11.089	(1.267)	19001	5.00000	4.4	
	62 Dibromochloromethane	129	11.317	11.304	(0.924)	21487	5.00000	4.5	
	63 1,3-Dichloropropane	76	11.431	11.418	(0.933)	41705	5.00000	4.9	
	64 1,2-Dibromoethane	107	11.603	11.590	(1.324)	21265	5.00000	4.4	
	65 2-Hexanone	43	11.882	11.876	(0.970)	50263	25.0000	33.8	
*	66 Chlorobenzene-D5	117	12.247	12.233	(1.000)	844190	50.0000		
	67 Chlorobenzene	112	12.268	12.254	(1.002)	83187	5.00000	4.7	
	152 1-Chlorohexane	91	12.247	12.233	(1.000)	47161	5.00000	5.3	
	68 Ethylbenzene	106	12.304	12.297	(1.005)	44558	5.00000	4.8	
	69 1,1,1,2-Tetrachloroethane	131	12.347	12.340	(1.008)	24224	5.00000	4.7	
M	70 Xylenes (total)	106				155350	15.0000	(a)	
	71 m+p-Xylenes	106	12.497	12.490	(1.020)	107335	10.0000	9.2	
	72 o-Xylene	106	13.069	13.055	(1.067)	48015	5.00000	4.7	
	73 Styrene	104	13.133	13.127	(1.072)	78349	5.00000	4.5	
	74 Bromoform	173	13.155	13.148	(1.074)	10947	5.00000	5.8	
	75 Isopropylbenzene	105	13.498	13.491	(0.867)	107141	5.00000	4.5	
$	76 P-Bromofluorobenzene	95	13.884	13.878	(1.584)	35738	5.00000	4.4	
	77 cis-1,4-Dichloro-2-Butene	53	13.970	13.963	(0.898)	6812	5.00000	4.1	

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9534.D
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.435	14.428	(0.927)	6934	5.00000	5.3	
79	Bromobenzene	156	14.034	14.028	(0.902)	29616	5.00000	4.6	
80	N-Propylbenzene	91	14.084	14.078	(0.905)	164459	5.00000	4.8	
81	1,1,2,2-Tetrachloroethane	83	14.170	14.164	(0.910)	29216	5.00000	4.7	
82	1,3,5-Trimethylbenzene	105	14.377	14.371	(0.924)	106128	5.00000	4.5	
83	2-Chlorotoluene	91	14.306	14.299	(0.919)	96537	5.00000	4.8	
84	1,2,3-Trichloropropane	75	14.370	14.357	(0.923)	23827	5.00000	4.7	
85	4-Chlorotoluene	91	14.549	14.543	(0.935)	98162	5.00000	4.7	
86	tert-Butylbenzene	119	14.849	14.843	(0.954)	102540	5.00000	4.5	
87	Pentachloroethane	117	14.871	14.864	(0.955)	20002	5.00000	4.3	
88	1,2,4-Trimethylbenzene	105	14.964	14.950	(0.961)	106455	5.00000	4.5	
89	P-Isopropyltoluene	119	15.350	15.343	(0.986)	103562	5.00000	4.5	
90	1,3-Dichlorobenzene	146	15.450	15.436	(0.993)	60748	5.00000	4.6	
* 91	1,4-Dichlorobenzene-D4	152	15.564	15.558	(1.000)	450668	50.0000		
92	1,4-Dichlorobenzene	146	15.586	15.579	(1.001)	64629	5.00000	4.6	
93	N-Butylbenzene	91	16.022	16.015	(1.029)	108105	5.00000	4.5	
94	sec-Butylbenzene	105	15.128	15.115	(0.972)	141124	5.00000	4.6	
95	1,2-Dichlorobenzene	146	16.258	16.251	(1.045)	54825	5.00000	4.5	
96	1,2-Dibromo-3-Chloropropane	75	17.588	17.588	(1.130)	3241	5.00000	6.8	
97	1,3,5-Trichlorobenzene	180	17.666	17.660	(1.135)	40824	5.00000	4.6	
98	Hexachlorobutadiene	225	18.775	18.768	(1.206)	15409	5.00000	5.4	
99	1,2,4-Trichlorobenzene	180	18.796	18.790	(1.208)	28755	5.00000	5.6	
100	1,2,3-Trimethylbenzene	105	15.636	15.629	(1.005)	104203	5.00000	4.7	
101	Naphthalene	128	19.375	19.369	(1.245)	40176	5.00000	6.5	
102	1,2,3-Trichlorobenzene	180	19.711	19.705	(1.266)	23705	5.00000	4.5	
103	Methyl Acetate	43	5.068	5.069	(0.625)	17033	5.00000	5.2	
104	Methylcyclohexane	83	8.714	8.708	(1.075)	43966	5.00000	4.3	
M 153	Total Alkylbenzenes	100				832373	5.00000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9534.D
Date : 16-APR-2012 12:28
Client ID:
Sample Info: WG107009-2,VSTD005D16A
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: DCA
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane (2.108)
-Chloromethane (2.344)
-Vinyl Chloride (2.444)
-Bromomethane (2.845)
-Chloroethane (3.016)
-Trichlorofluoromethane (3.195)
-Diethyl Ether (3.603)
-1,1-Dichloroethene (3.881)+
-Iodomethane (4.082)
-Acrolein (4.360)
-Allyl Chloride (4.596)
-Methylene Chloride (4.761)+
-trans-1,2-Dichloroethene (5.047)+
-Methyl tert-butyl ether (5.247)
-Acetonitrile (5.597)
-Tertiary-butyl alcohol (5.898)+
-Chloroprene (6.026)+
-Ethyl tertiary-butyl ethe (6.448)+
-cis-1,2-Dichloroethene (6.834)
-2,2-Dichloropropane (6.992)
-Bromochloromethane (7.120)+
-Chloroform (7.228)
-Carbon Tetrachloride (7.406)+
-1,1-Dichloropropene (7.664)+
-Propionitrile (7.986)+
-Pentafluorobenzene (8.107)+
-Isobutyl Alcohol (8.293)+
-Trichloroethene (8.715)+
-1,4-Difluorobenzene (8.765)
-Total Alkylbenzenes (9.000)
-Dibromomethane (9.215)
-1,2-Dichloropropane (9.337)
-Bromodichloromethane (9.418)
-Methyl Methacrylate (9.623)+
-2-Chloroethyl vinyl ether (10.095)
-cis-1,3-Dichloropropene (10.159)
-Toluene-D8 (10.381)
-Toluene (10.438)
-4-methyl-2-pentanone (10.881)+
-Ethyl Methacrylate (11.103)+
-Dibromochloromethane (11.318)
-1,3-Dichloropropane (11.425)
-1,2-Dibromoethane (11.604)
-2-Hexanone (11.882)
-1,1,1,2-Tetrachloroethane (12.347)
-m+p-Xylenes (12.497)
Chlorobenzene-D5 (12.247)+
-o-Xylene (13.062)
-Styrene (13.134)+
-Isopropylbenzene (13.498)
-Bromofluorobenzene (13.884)
-cis-1,4-Dichloro-2-Bute (15.012)
-1,1,2,2-Tetrachloroethane (15.085)
-2-Chlorotoluene (14.306)
-trans-1,4-Dichloro-2-Bute (14.378)+
-4-Chlorotoluene (14.549)
-tert-Butylbenzene (14.857)+
-1,2,4-Trimethylbenzene (14.964)
-sec-Butylbenzene (15.129)
-p-Isopropyltoluene (15.350)
-1,3-Dichlorobenzene (15.480)
-1,2-Dichloroethylene (tot (15.780)
1,4-Dichlorobenzene-D4 (15.565)+
-N-Butylbenzene (16.022)
-1,2-Dichlorobenzene (16.258)
-1,2-Dibromo-3-Chloropropa (17.508)
-1,3,5-Trichlorobenzene (17.667)
-Hexachlorobutadiene (18.797)+
-Naphthalene (19.376)
-1,2,3-Trichlorobenzene (19.712)
-Xylenes (total) (21.080)
\\target_server\gg\chem\gcms-d.i\D041612.b\D9534.D

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9536.D
Report Date: 17-Apr-2012 09:26

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D041612.b\D9536.D
Lab Smp Id: VSTD001D16B
Inj Date : 16-APR-2012 13:44 MS Autotune Date: 05-MAR-2010 09:29
Operator : DCA Inst ID: gcms-d.i
Smp Info : WG107009-1,VSTD001D16B
Misc Info : SW846 8260B
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D041612.b\D826A91.m
Meth Date : 17-Apr-2012 09:24 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 7 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	2.110	2.101	(0.260)	7183	1.00000	1.2	
2 Chloromethane	50	2.346	2.337	(0.289)	9842	1.00000	1.2	
3 Vinyl chloride	62	2.446	2.437	(0.302)	10267	1.00000	0.79(a)	
4 Bromomethane	94	2.846	2.838	(0.351)	5770	1.00000	1.1	
5 Chloroethane	64	3.011	3.002	(0.371)	6336	1.00000	1.2	
6 Trichlorofluoromethane	101	3.196	3.181	(0.394)	11912	1.00000	1.2	
7 Diethyl Ether	59	3.604	3.603	(0.445)	4556	1.00000	1.1	
8 Tertiary-butyl alcohol	59	5.899	5.884	(0.728)	1481	5.00000	4.1(aM)	M9
9 1,1-Dichloroethene	96	3.883	3.867	(0.479)	7261	1.00000	3.5	
10 Carbon Disulfide	76	3.912	3.903	(0.482)	27628	1.00000	2.6	
11 Freon-113	151	3.947	3.939	(0.487)	4671	1.00000	4.0	
12 Iodomethane	142	4.076	4.067	(0.503)	6021	1.00000	1.2(M)	M9
13 Acrolein	56	4.355	4.361	(0.537)	2963	5.00000	5.2	
14 Methylene Chloride	84	4.770	4.754	(0.588)	8474	1.00000	0.14(a)	
15 Acetone	43	4.834	4.833	(0.596)	9017	5.00000	7.6	
16 Isobutyl Alcohol	43	8.295	8.279	(1.023)	1826	20.0000	15.8(a)	
17 trans-1,2-Dichloroethene	96	5.041	5.033	(0.622)	8716	1.00000	0.88(a)	
18 Allyl Chloride	41	4.598	4.582	(0.567)	9294	1.00000	2.4	
19 Methyl tert-butyl ether	73	5.256	5.240	(0.648)	25395	2.00000	2.1	
20 Acetonitrile	39	5.599	5.591	(0.691)	1202	10.0000	11.6(a)	
21 Di-isopropyl ether	45	5.899	5.891	(0.728)	16233	1.00000	0.99(a)	
22 Chloroprene	53	6.006	6.005	(0.741)	9292	1.00000	1.1	
23 Propionitrile	54	8.001	7.993	(0.987)	4725	10.0000	8.9(a)	
24 Methacrylonitrile	41	8.030	8.022	(0.990)	23802	10.0000	9.8(a)	

DCA 4/17/1

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9536.D
Report Date: 17-Apr-2012 09:26

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	6.035	6.027	(0.744)	12341	1.00000	1.2	
	26	Acrylonitrile	52	6.099	6.098	(0.752)	6623	5.00000	5.3	
	27	Ethyl tertiary-butyl ether	59	6.450	6.441	(0.795)	12831	1.00000	0.90(a)	
	28	Vinyl Acetate	43	6.450	6.441	(0.736)	8784	1.00000	3.0	
	29	cis-1,2-Dichloroethene	96	6.836	6.828	(0.843)	6673	1.00000	1.2	
M	30	1,2-Dichloroethylene (total)	96				15389	1.00000	(a)	
	31	Methyl Methacrylate	41	9.617	9.609	(1.098)	2246	1.00000	3.7	
	32	2,2-Dichloropropane	77	6.986	6.978	(0.862)	8038	1.00000	1.1	
	33	Bromochloromethane	128	7.108	7.092	(0.877)	2660	1.00000	1.2	
	34	Chloroform	83	7.222	7.214	(0.891)	11069	1.00000	1.2	
	35	Carbon Tetrachloride	117	7.401	7.400	(0.845)	7854	1.00000	1.2	
	36	Tetrahydrofuran	42	7.437	7.421	(0.917)	5235	5.00000	17.0	
$	37	Dibromofluoromethane	113	7.465	7.457	(0.921)	4310	1.00000	0.96(a)	
	38	1,1,1-Trichloroethane	97	7.501	7.485	(0.925)	9855	1.00000	1.2	
	39	1,1-Dichloropropene	75	7.665	7.657	(0.875)	9119	1.00000	1.2	
	40	2-Butanone	43	7.637	7.628	(0.942)	8084	5.00000	16.9	
	41	Benzene	78	7.980	7.972	(0.911)	27806	1.00000	1.1	
*	42	Pentafluorobenzene	168	8.109	8.100	(1.000)	460648	50.0000		
	43	Cyclohexane	56	7.129	7.114	(0.879)	10129	1.00000	1.1	
	44	Ethyl Methacrylate	69	11.112	11.103	(1.269)	3240	1.00000	4.5	
$	45	1,2-Dichloroethane-D4	65	8.144	8.135	(1.004)	4713	1.00000	0.90(a)	
	46	Tertiary-amyl methyl ether	73	8.159	8.150	(1.006)	12172	1.00000	0.97(a)	
	47	1,2-Dichloroethane	62	8.230	8.222	(0.940)	7640	1.00000	1.1(M)	M10
	48	Trichloroethene	95	8.716	8.708	(0.995)	7710	1.00000	4.7	
*	49	1,4-Difluorobenzene	114	8.759	8.751	(1.000)	849700	50.0000		
	50	Dibromomethane	93	9.210	9.209	(1.051)	3253	1.00000	1.1	
	51	1,2-Dichloropropane	63	9.338	9.330	(1.066)	6278	1.00000	1.1(M)	M6
	52	Bromodichloromethane	83	9.417	9.409	(1.075)	7339	1.00000	1.0	
	53	cis-1,3-dichloropropene	75	10.154	10.152	(1.159)	7233	1.00000	0.85(a)	
	54	1,4-Dioxane	88	9.667	9.652	(1.104)	1541	20.0000	49.7	
$	55	Toluene-D8	98	10.375	10.374	(1.184)	15718	1.00000	0.84(a)	
	56	2-Chloroethylvinylether	63	10.096	10.088	(1.153)	2518	1.00000	3.4	
	57	Toluene	92	10.440	10.431	(1.192)	17312	1.00000	1.1	
	58	4-methyl-2-pentanone	43	10.869	10.867	(1.241)	14388	5.00000	20.0	
	59	Tetrachloroethene	164	10.883	10.882	(0.889)	7942	1.00000	3.7	
	60	trans-1,3-Dichloropropene	75	10.911	10.903	(1.246)	6205	1.00000	4.1	
	61	1,1,2-Trichloroethane	83	11.105	11.089	(1.268)	4176	1.00000	1.1	
	62	Dibromochloromethane	129	11.319	11.304	(0.925)	4335	1.00000	1.00	
	63	1,3-Dichloropropane	76	11.426	11.418	(0.933)	8691	1.00000	1.1	
	64	1,2-Dibromoethane	107	11.598	11.590	(1.324)	4541	1.00000	1.0(M)	M6
	65	2-Hexanone	43	11.884	11.876	(0.971)	8129	5.00000	22.3	
*	66	Chlorobenzene-D5	117	12.241	12.233	(1.000)	768963	50.0000		
	67	Chlorobenzene	112	12.263	12.254	(1.002)	21576	1.00000	1.0	
	152	1-Chlorohexane	91	12.241	12.233	(1.000)	12500	1.00000	1.7	
	68	Ethylbenzene	106	12.306	12.297	(1.005)	10409	1.00000	1.2	
	69	1,1,1,2-Tetrachloroethane	131	12.349	12.340	(1.009)	4915	1.00000	1.0(M)	M10
M	70	Xylenes (total)	106				32451	5.00000	(a)	
	71	m+p-Xylenes	106	12.499	12.490	(1.021)	23537	2.00000	2.2	
	72	o-Xylene	106	13.064	13.055	(1.067)	8914	1.00000	0.96(a)	
	73	Styrene	104	13.128	13.127	(1.072)	14353	1.00000	0.91(a)	
	74	Bromoform	173	13.157	13.148	(1.075)	2149	1.00000	3.0(M)	M6
	75	Isopropylbenzene	105	13.500	13.491	(0.868)	23671	1.00000	1.1	
$	76	P-Bromofluorobenzene	95	13.879	13.878	(1.584)	6440	1.00000	0.87(a)	
	77	cis-1,4-Dichloro-2-Butene	53	13.972	13.963	(0.898)	1539	1.00000	1.0	

DCA 4/17/12

DCA 4/17/12

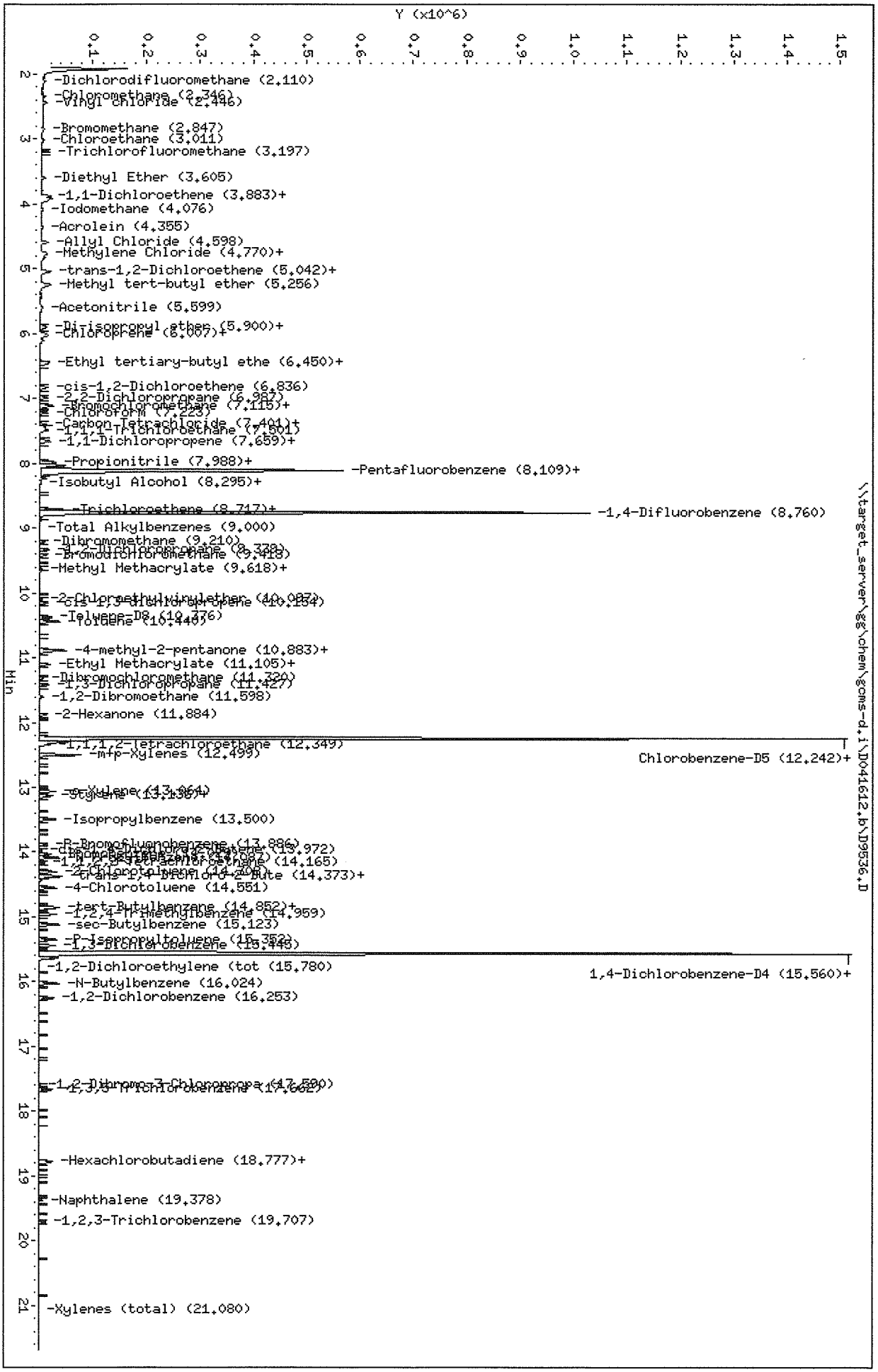
DCA 4/17/12

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9536.D
Report Date: 17-Apr-2012 09:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.429	14.428	(0.927)	1149	1.00000	2.1	
79	Bromobenzene	156	14.036	14.028	(0.902)	5993	1.00000	1.0	
80	N-Propylbenzene	91	14.086	14.078	(0.905)	34232	1.00000	1.1	
81	1,1,2,2-Tetrachloroethane	83	14.165	14.164	(0.910)	6235	1.00000	1.1(M)	M6 DCA 4/17/12
82	1,3,5-Trimethylbenzene	105	14.379	14.371	(0.924)	21810	1.00000	1.0	
83	2-Chlorotoluene	91	14.301	14.299	(0.919)	20236	1.00000	1.1	
84	1,2,3-Trichloropropane	75	14.365	14.357	(0.923)	4982	1.00000	1.1	
85	4-Chlorotoluene	91	14.551	14.543	(0.935)	20253	1.00000	1.1	
86	tert-Butylbenzene	119	14.851	14.843	(0.955)	20472	1.00000	0.99(a)	
87	Pentachloroethane	117	14.873	14.864	(0.956)	4057	1.00000	0.95(a)	
88	1,2,4-Trimethylbenzene	105	14.958	14.950	(0.961)	22199	1.00000	1.0	
89	P-Isopropyltoluene	119	15.352	15.343	(0.987)	21186	1.00000	1.0	
90	1,3-Dichlorobenzene	146	15.445	15.436	(0.993)	13972	1.00000	1.2	
* 91	1,4-Dichlorobenzene-D4	152	15.559	15.558	(1.000)	409040	50.0000		
92	1,4-Dichlorobenzene	146	15.588	15.579	(1.002)	16102	1.00000	1.2(M)	M10 DCA 4/17/12
93	N-Butylbenzene	91	16.024	16.015	(1.030)	23361	1.00000	1.1	
94	sec-Butylbenzene	105	15.123	15.115	(0.972)	31232	1.00000	1.1	
95	1,2-Dichlorobenzene	146	16.260	16.251	(1.045)	11983	1.00000	1.1	
96	1,2-Dibromo-3-Chloropropane	75	17.583	17.588	(1.130)	637	1.00000	4.4	
97	1,3,5-Trichlorobenzene	180	17.661	17.660	(1.135)	8134	1.00000	1.0	
98	Hexachlorobutadiene	225	18.777	18.768	(1.207)	3839	1.00000	1.7	
99	1,2,4-Trichlorobenzene	180	18.798	18.790	(1.208)	5791	1.00000	2.3	
100	1,2,3-Trimethylbenzene	105	15.638	15.629	(1.005)	20632	1.00000	1.0	
101	Naphthalene	128	19.377	19.369	(1.245)	6666	1.00000	4.2	
102	1,2,3-Trichlorobenzene	180	19.706	19.705	(1.267)	4568	1.00000	0.95(a)	
103	Methyl Acetate	43	5.070	5.069	(0.625)	4448	1.00000	1.7	
104	Methylcyclohexane	83	8.716	8.708	(1.075)	9658	1.00000	1.0	
M 153	Total Alkylbenzenes	100				174492	1.00000	(a)	

QC Flag Legend

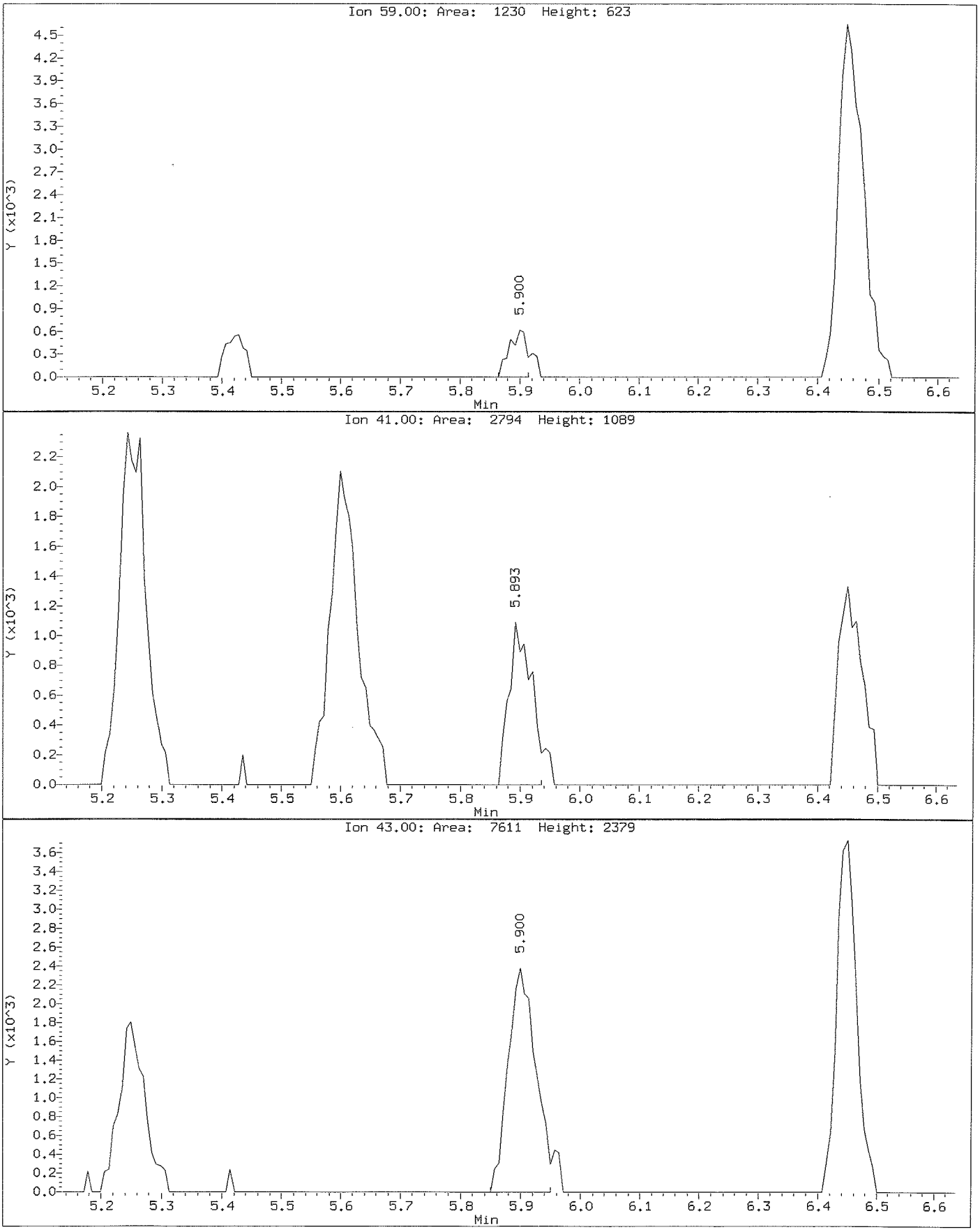
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Y (x10^6)
0.1
0.2
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20
21
-Dichlorodifluoromethane (2.110)
-Chloromethane (2.346)
-Vinyl Chloride (2.446)
-Bromomethane (2.847)
-Chloroethane (3.011)
-Trichlorofluoromethane (3.197)
-Diethyl Ether (3.605)
-1,1-Dichloroethene (3.883)+
-Iodomethane (4.076)
-Acrolein (4.355)
-Allyl Chloride (4.598)
-Methylene Chloride (4.770)+
-trans-1,2-Dichloroethene (5.042)+
-Methyl tert-butyl ether (5.256)
-Acetonitrile (5.599)
-Di-isopropyl ether (5.900)+
-Chloroprene (6.007)+
-Ethyl tertiary-butyl ethe (6.450)+
-cis-1,2-Dichloroethene (6.836)
-2,2-Dichloropropane (6.987)
-Bromochloromethane (7.115)+
-Chloroform (7.223)
-Carbon Tetrachloride (7.401)+
-1,1,1-Trichloroethane (7.501)
-1,1-Dichloropropene (7.659)+
-Propionitrile (7.988)+
-Pentafluorobenzene (8.109)+
-Isobutyl Alcohol (8.295)+
-Trichloroethene (8.717)+
-1,4-Difluorobenzene (8.760)
-Total Alkylbenzenes (9.000)
-Dibromomethane (9.210)
-1,2-Dichloropropane (9.378)
-Bromodichloromethane (9.418)
-Methyl Methacrylate (9.618)+
-2-Chloroethylvinylether (10.087)
-cis-1,3-Dichloropropene (10.154)
-Toluene-D8 (10.376)
-Toluene (10.440)
-4-methyl-2-pentanone (10.883)+
-Ethyl Methacrylate (11.105)+
-Dibromochloromethane (11.320)
-1,3-Dichloropropane (11.427)
-1,2-Dibromoethane (11.598)
-2-Hexanone (11.884)
-1,1,1,2-Tetrachloroethane (12.349)
-m/p-Xylenes (12.499)
Chlorobenzene-D5 (12.242)+
-o-Xylene (13.064)
-Styrene (13.138)+
-Isopropylbenzene (13.500)
-Bromofluorobenzene (13.886)
-Dibromomethane (13.972)
-1,1,2-Trichloroethane (14.165)
-2-Chlorotoluene (14.206)
-trans-1,4-Dichloro-2-Bute (14.373)+
-4-Chlorotoluene (14.551)
-tert-Butylbenzene (14.852)+
-1,2,4-Trimethylbenzene (14.959)
-sec-Butylbenzene (15.123)
-p-Isopropyltoluene (15.352)
-1,3-Dichlorobenzene (15.445)
-1,2-Dichloroethylene (tot (15.780)
1,4-Dichlorobenzene-D4 (15.560)+
-N-Butylbenzene (16.024)
-1,2-Dichlorobenzene (16.253)
-1,2-Dibromo-3-Chloroprope (17.590)
-1,2,3-Trichlorobenzene (17.662)
-Hexachlorobutadiene (18.777)+
-Naphthalene (19.378)
-1,2,3-Trichlorobenzene (19.707)
-Xylenes (total) (21.080)
Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9536.D
Date : 16-APR-2012 13:44
Client ID:
Sample Info: MG1070009-1,VSTD001D16B
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: DCA
Column diameter: 0.18
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Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9536.D
Injection Date: 16-APR-2012 13:44
Instrument: gcms-d.i
Client Sample ID:

Before

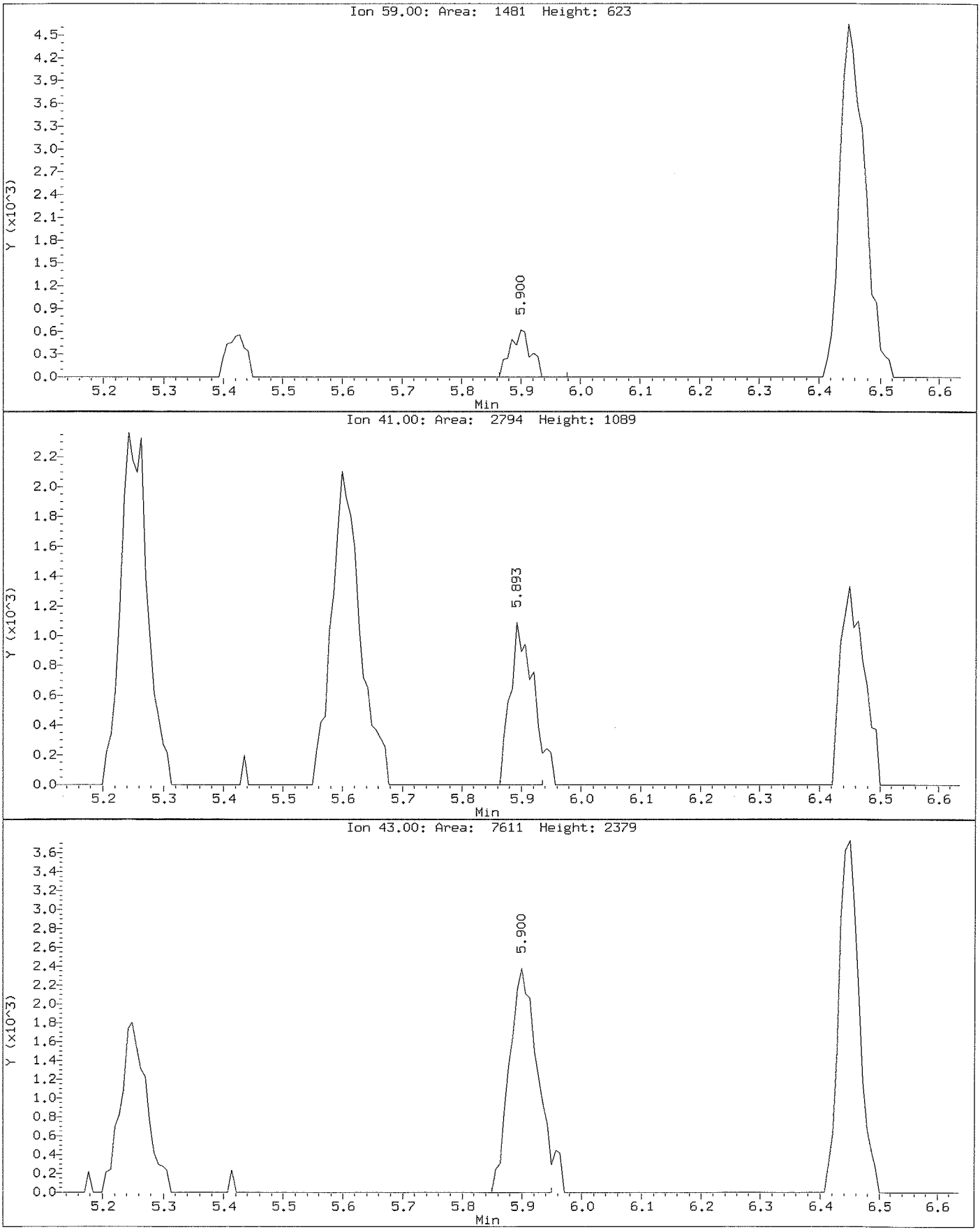
Compound: Tertiary-butyl alcohol
CAS Number: 75-65-0



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Injection Date: 16-APR-2012 13:44
Instrument: gcms-d.i
Client Sample ID:

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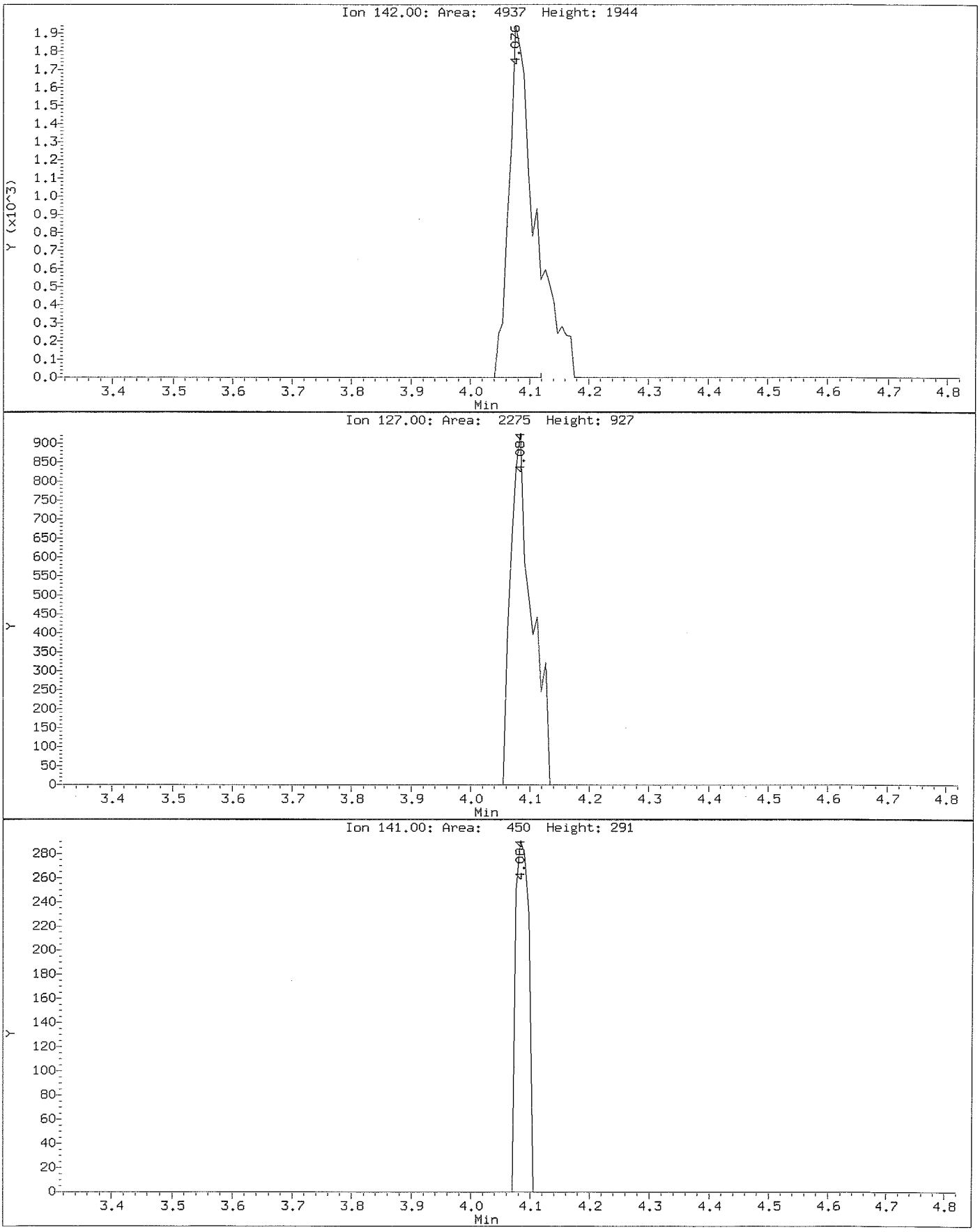
Compound: Tertiary-butyl alcohol
CAS Number: 75-65-0



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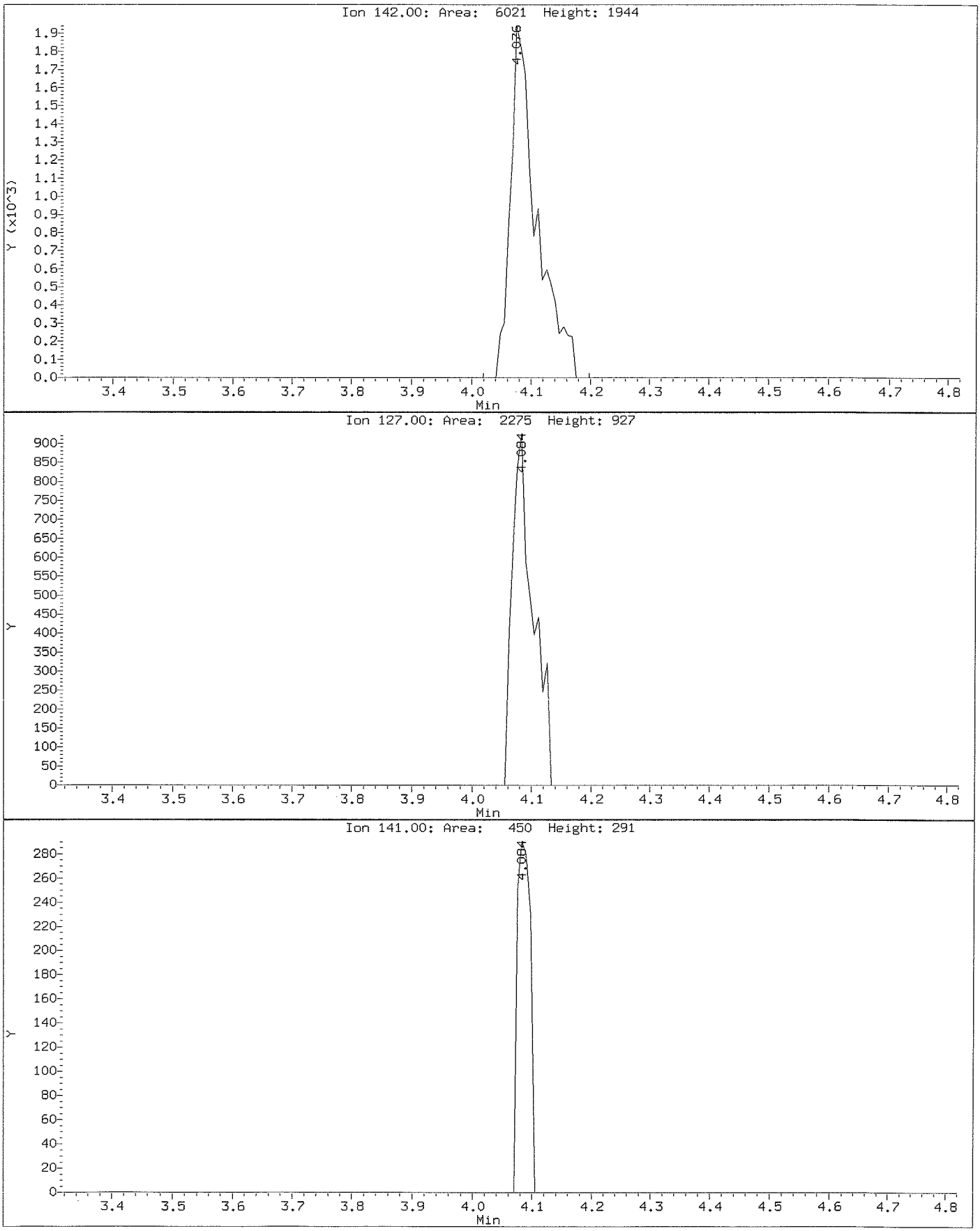
Compound: Iodomethane
CAS Number: 74-88-4



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Instrument: gcms-d.i
Client Sample ID:

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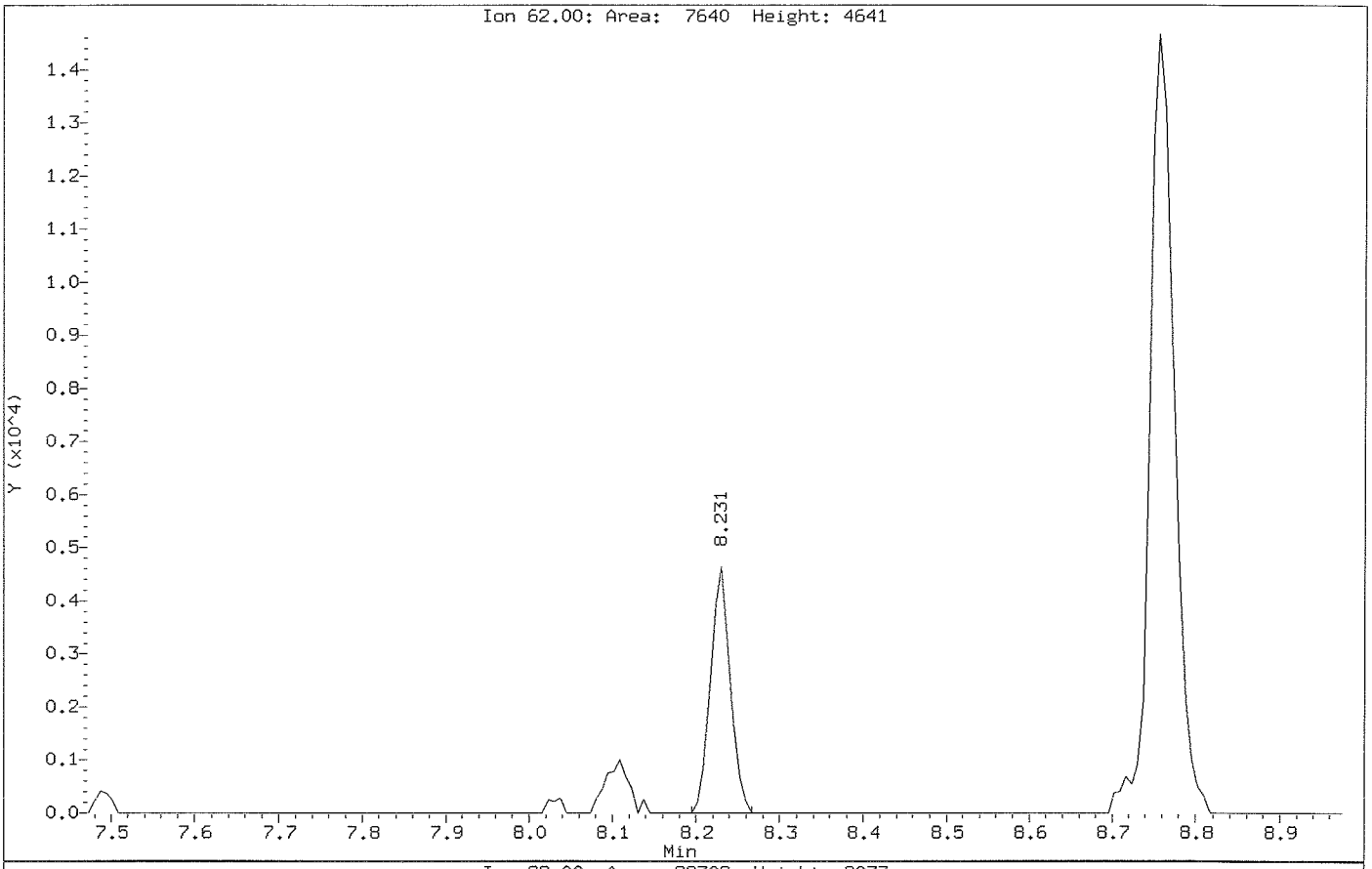
Compound: Iodomethane
CAS Number: 74-88-4

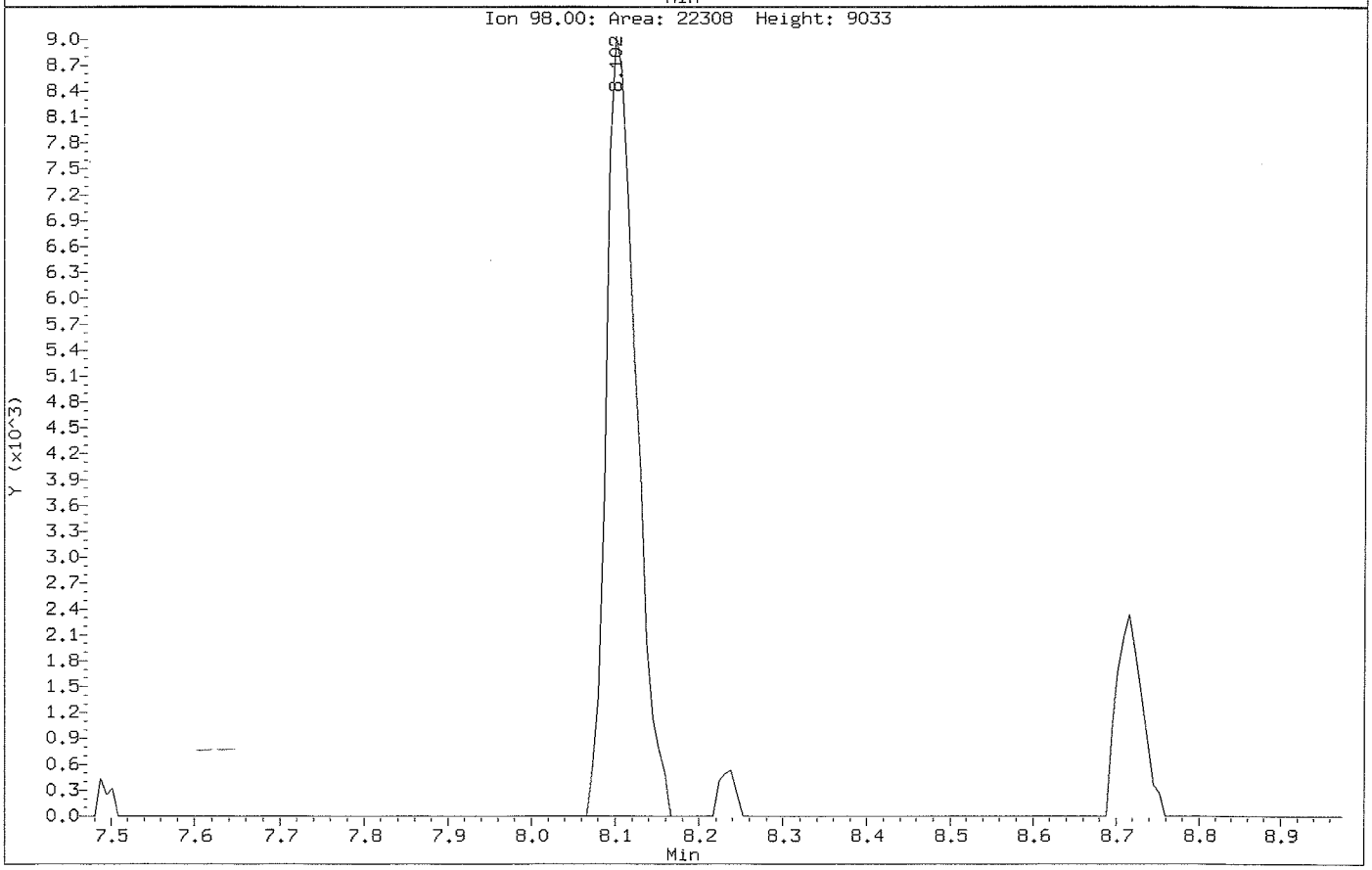


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Injection Date: 16-APR-2012 13:44
Instrument: gcms-d.i
Client Sample ID:

Before

Compound: 1,2-Dichloroethane
CAS Number: 107-06-2

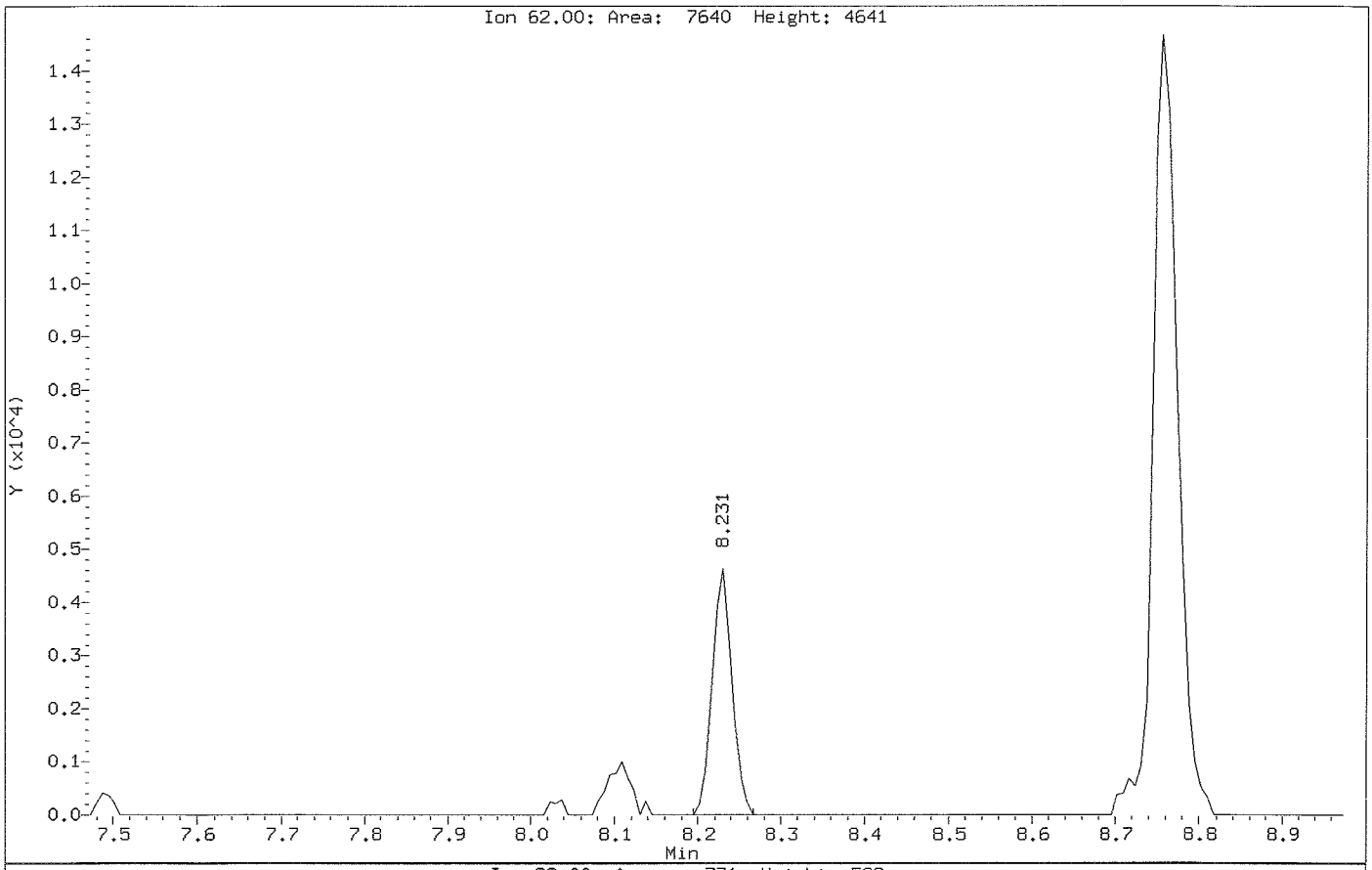


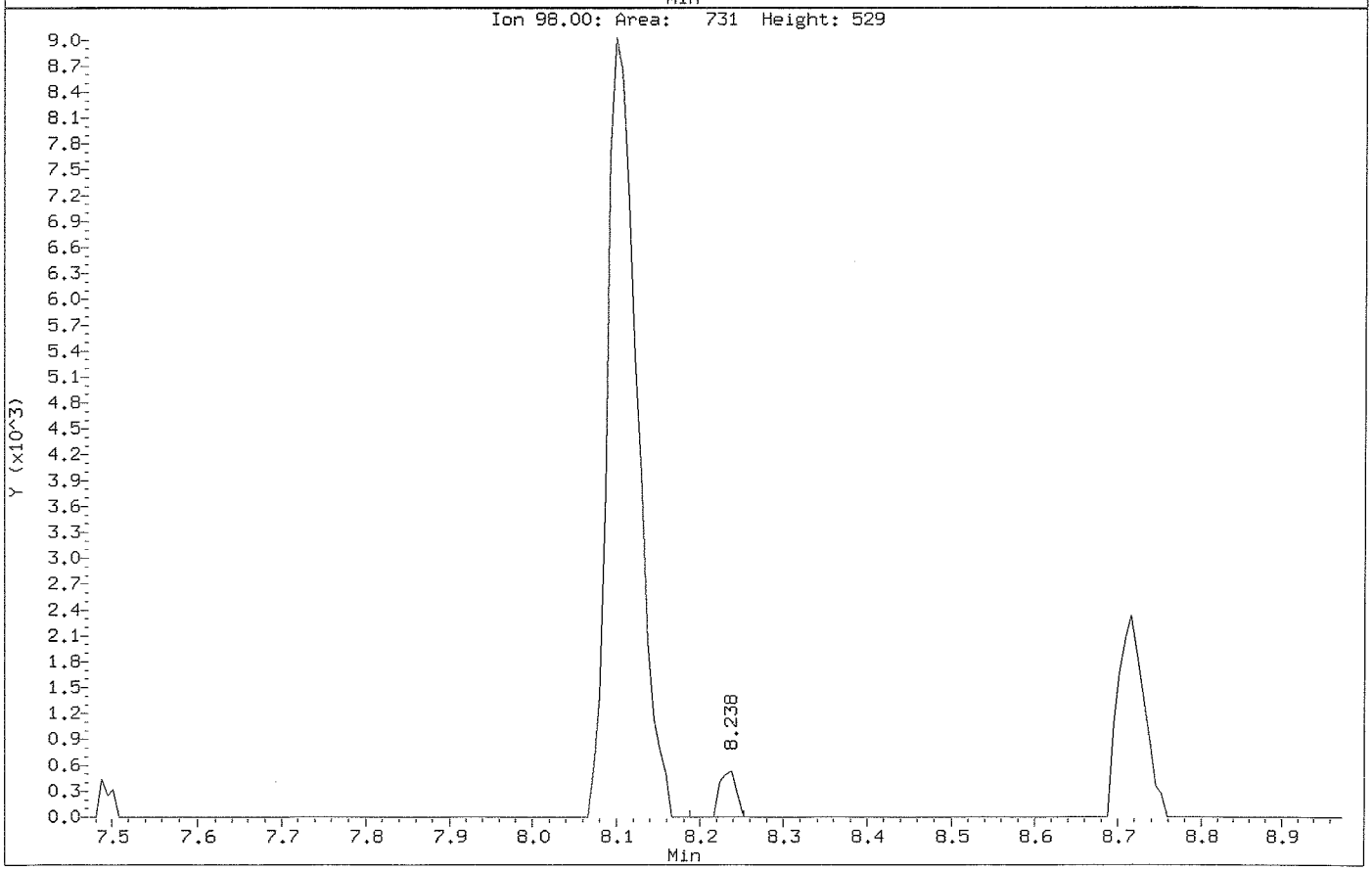


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After

Compound: 1,2-Dichloroethane
CAS Number: 107-06-2

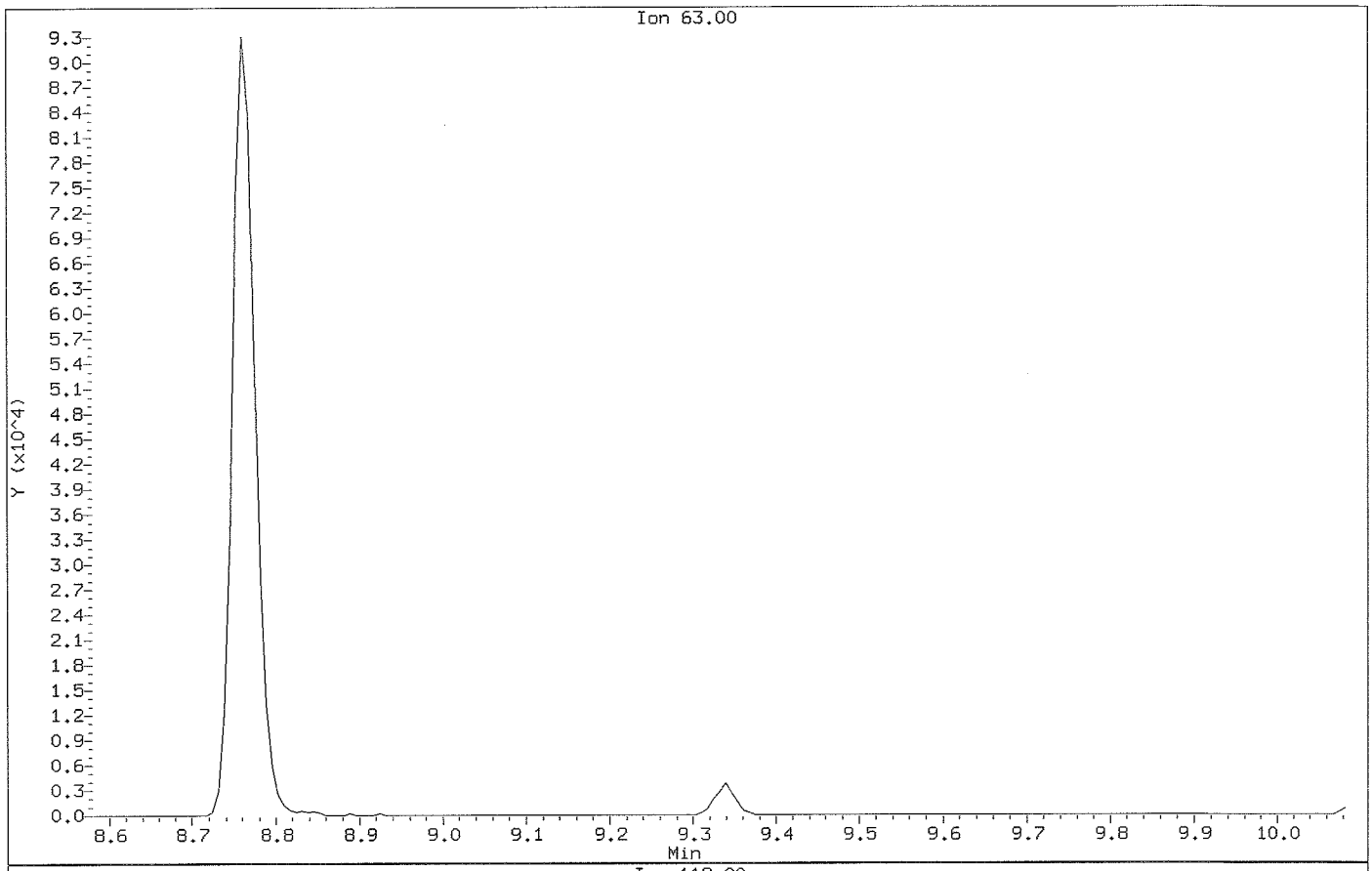


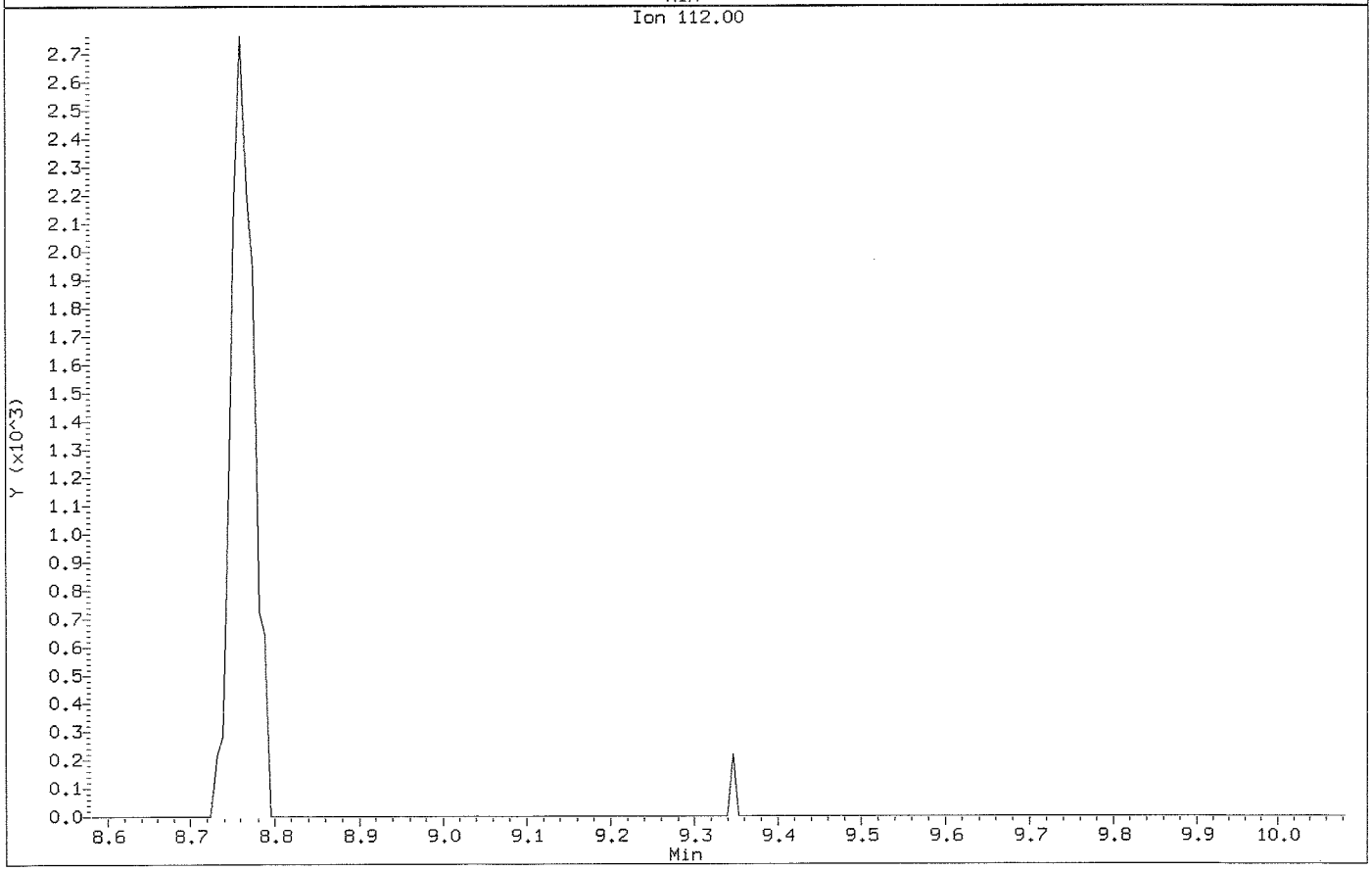


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Injection Date: 16-APR-2012 13:44
Instrument: gcms-d.i
Client Sample ID:

Before

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

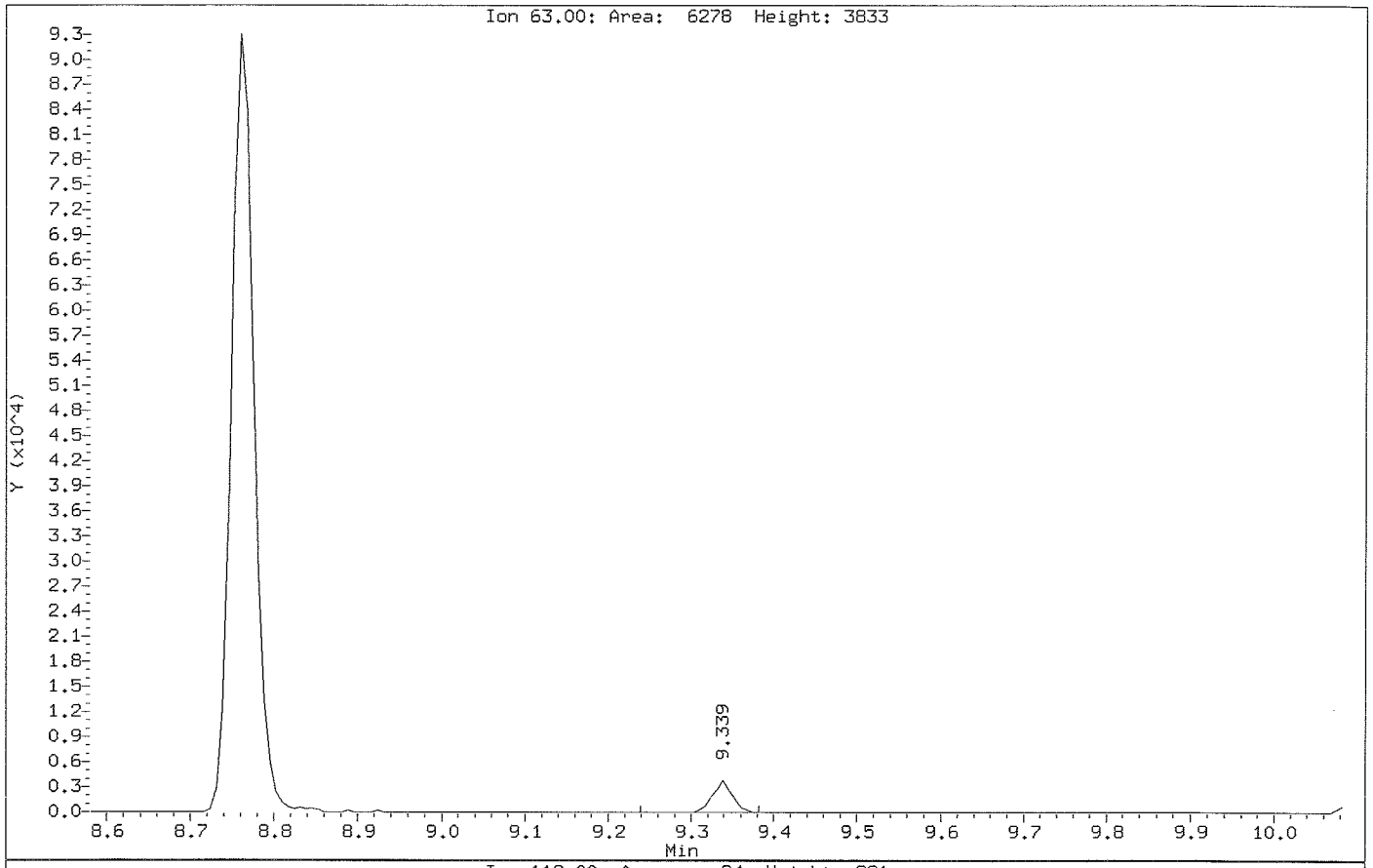


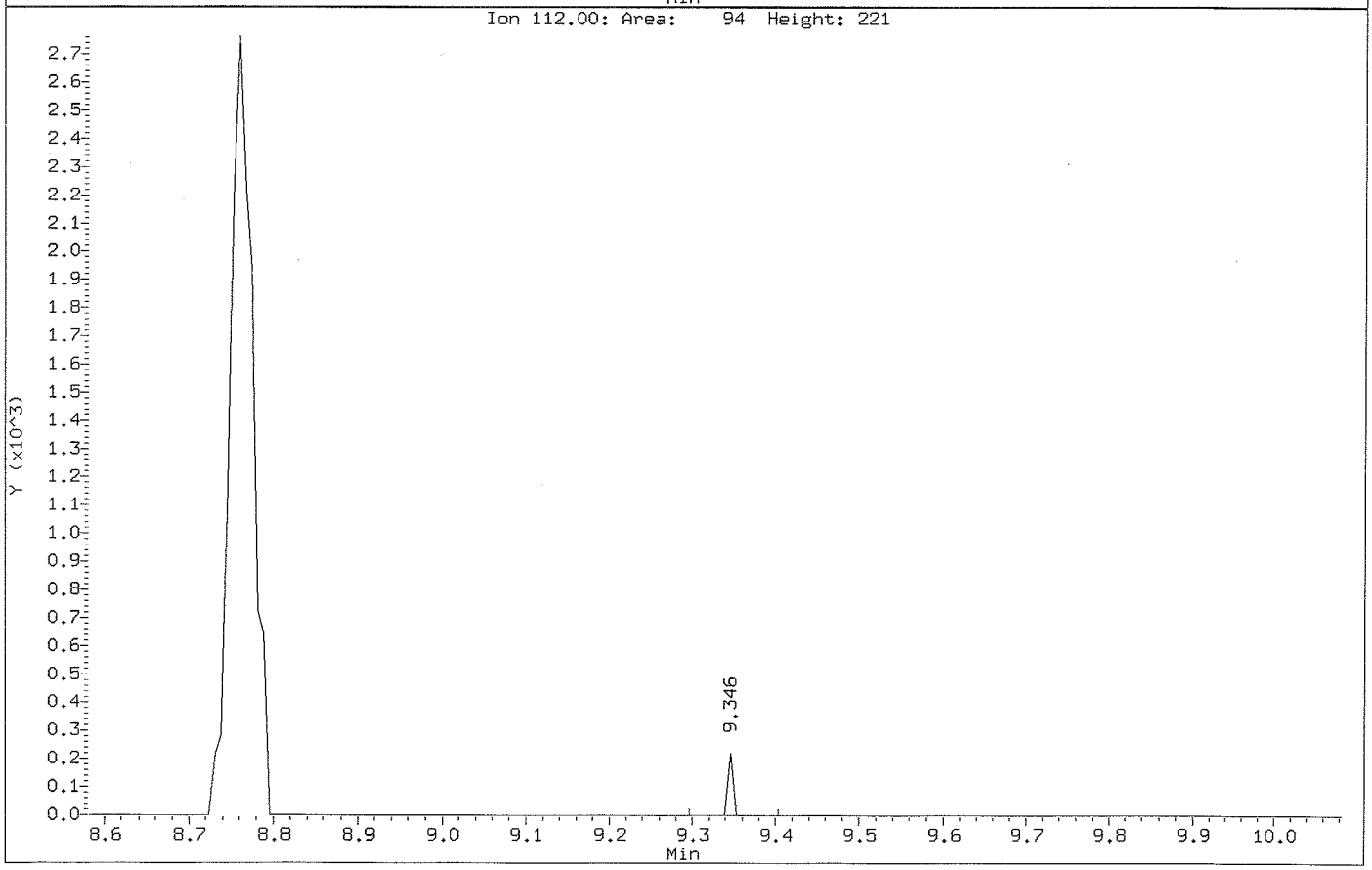


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After

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

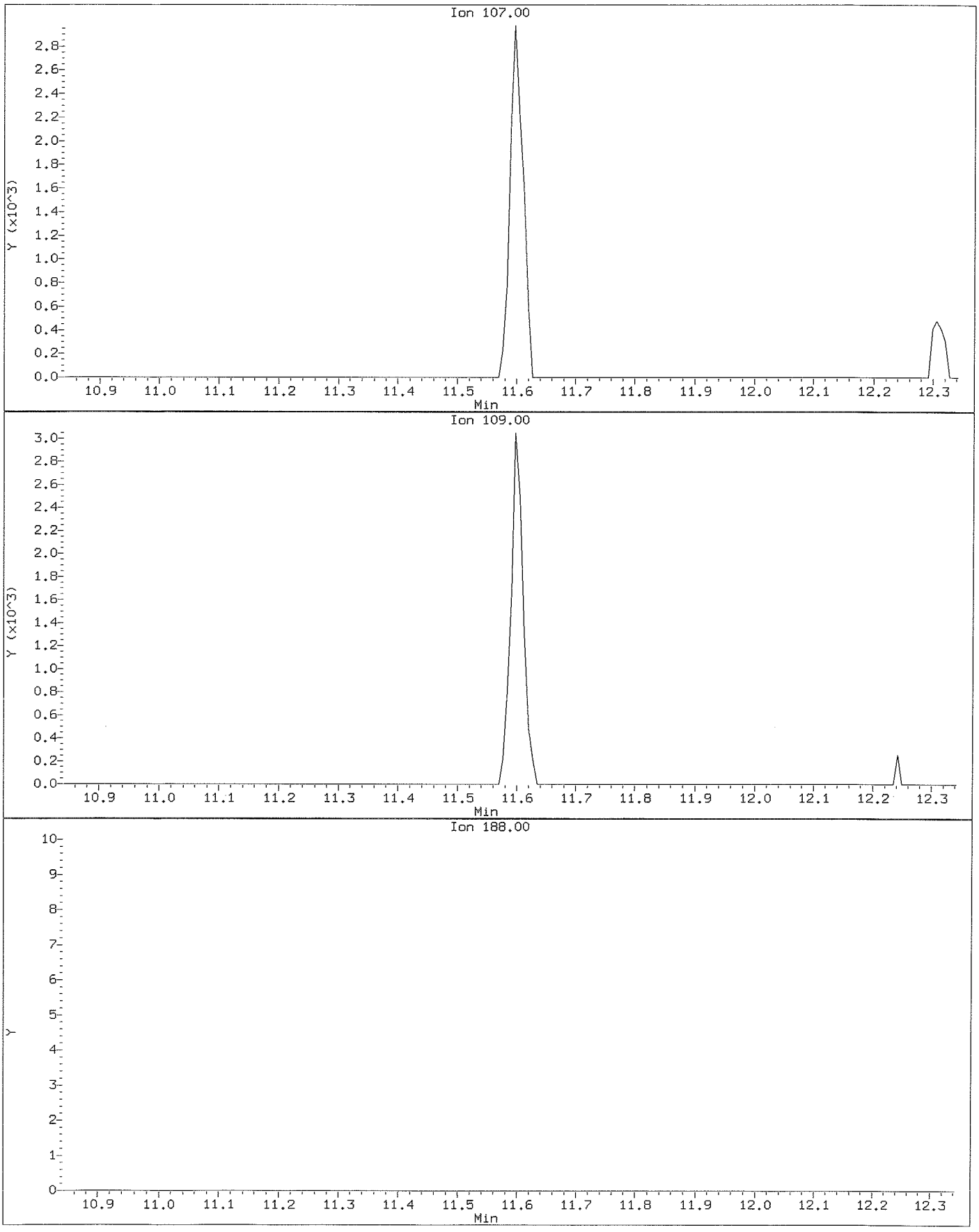




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Client Sample ID:

Before

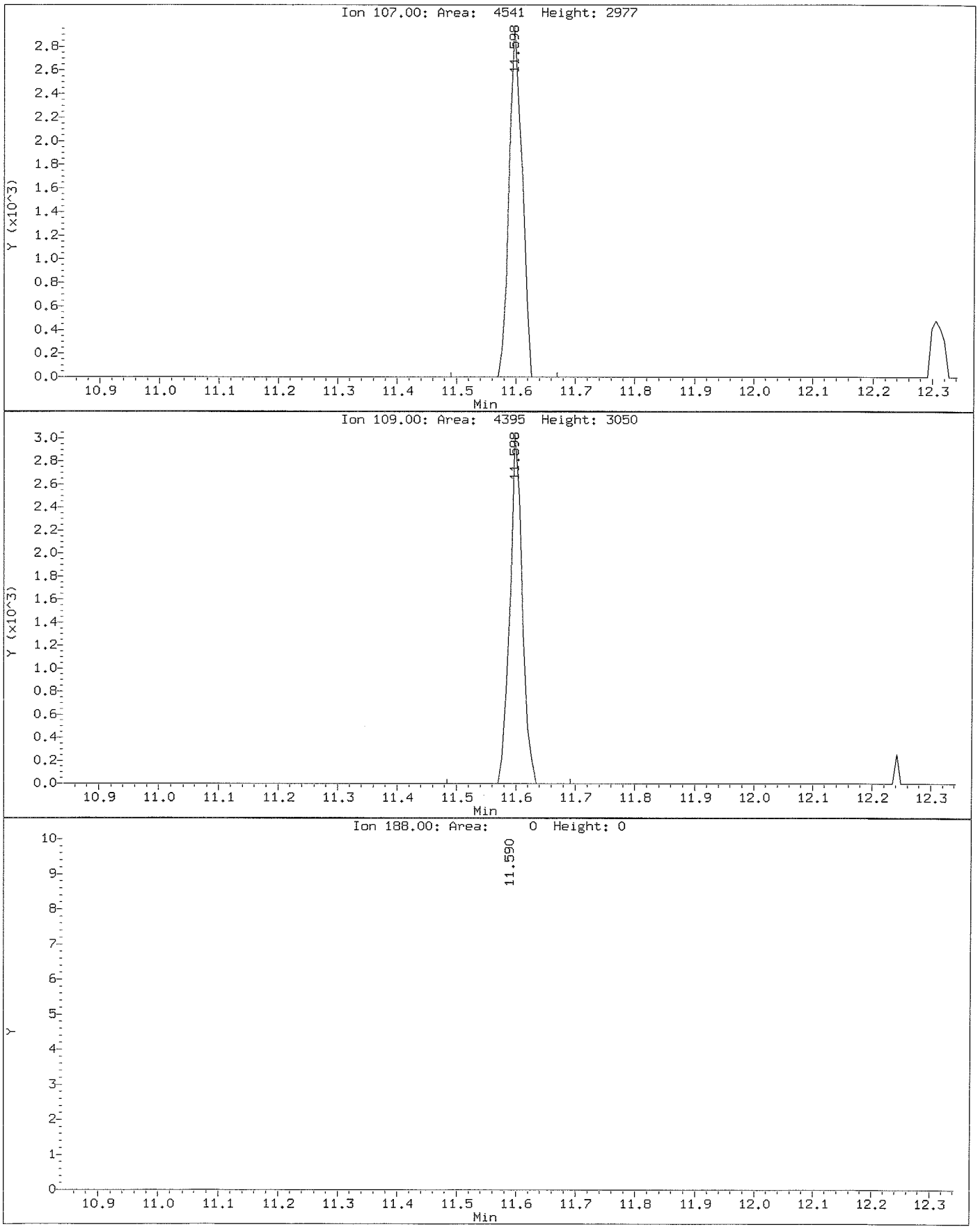
Compound: 1,2-Dibromoethane
CAS Number: 106-93-4



Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9536.D
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Instrument: gcms-d.i
Client Sample ID:

After

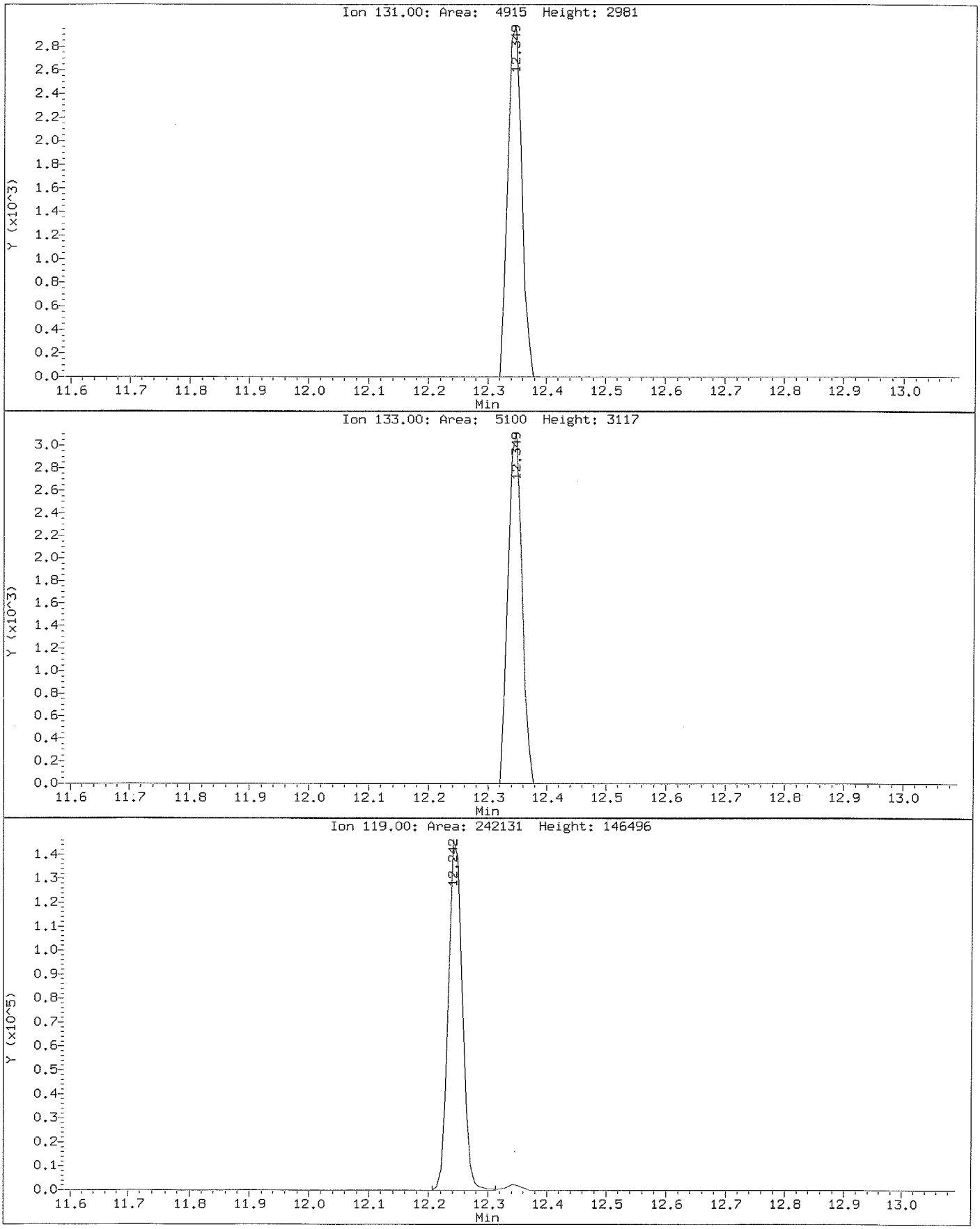
Compound: 1,2-Dibromoethane
CAS Number: 106-93-4



Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9536.D
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Client Sample ID:

Before

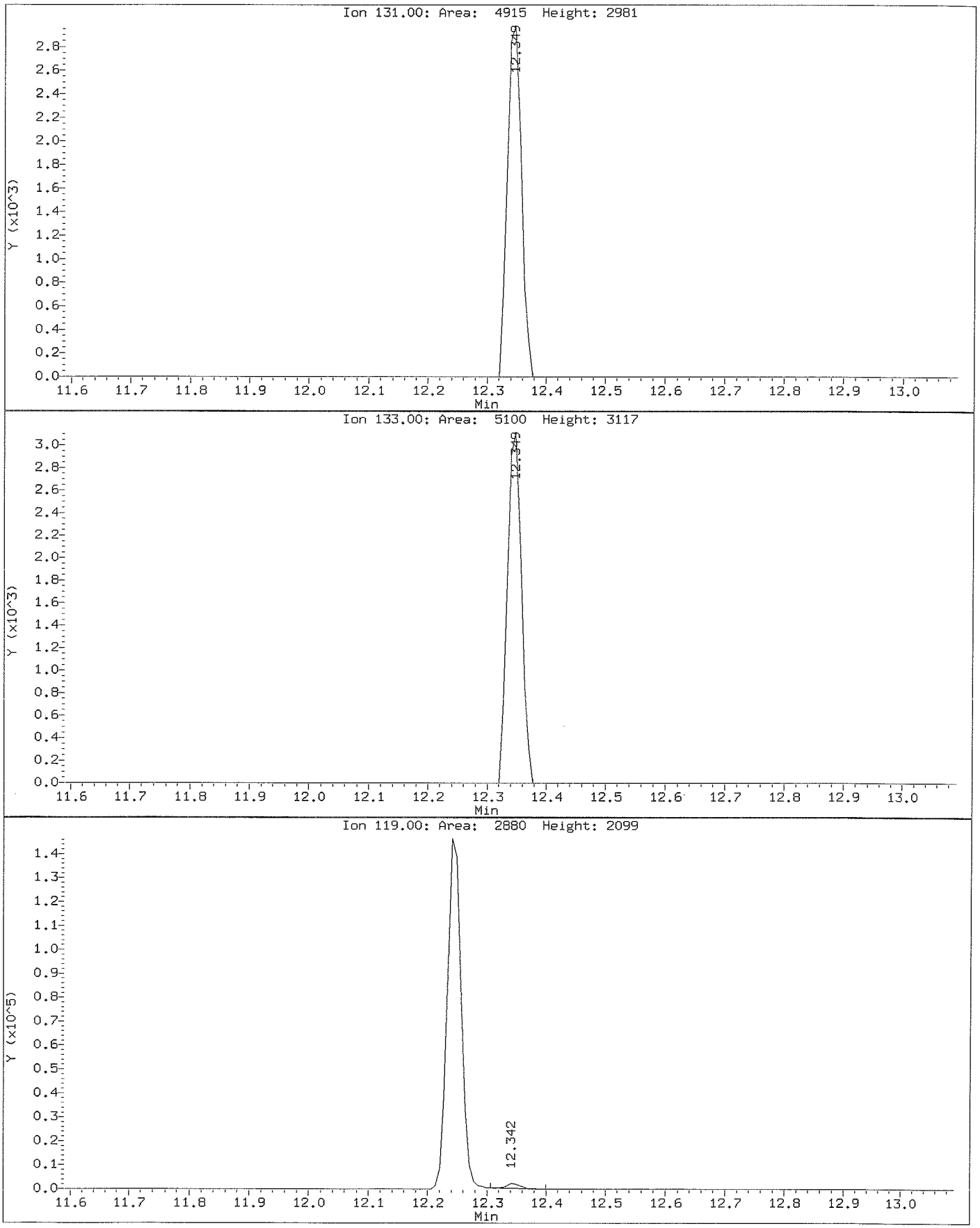
Compound: 1,1,1,2-Tetrachloroethane
CAS Number: 630-20-6



Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9536.D
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Instrument: gcms-d.i
Client Sample ID:

After

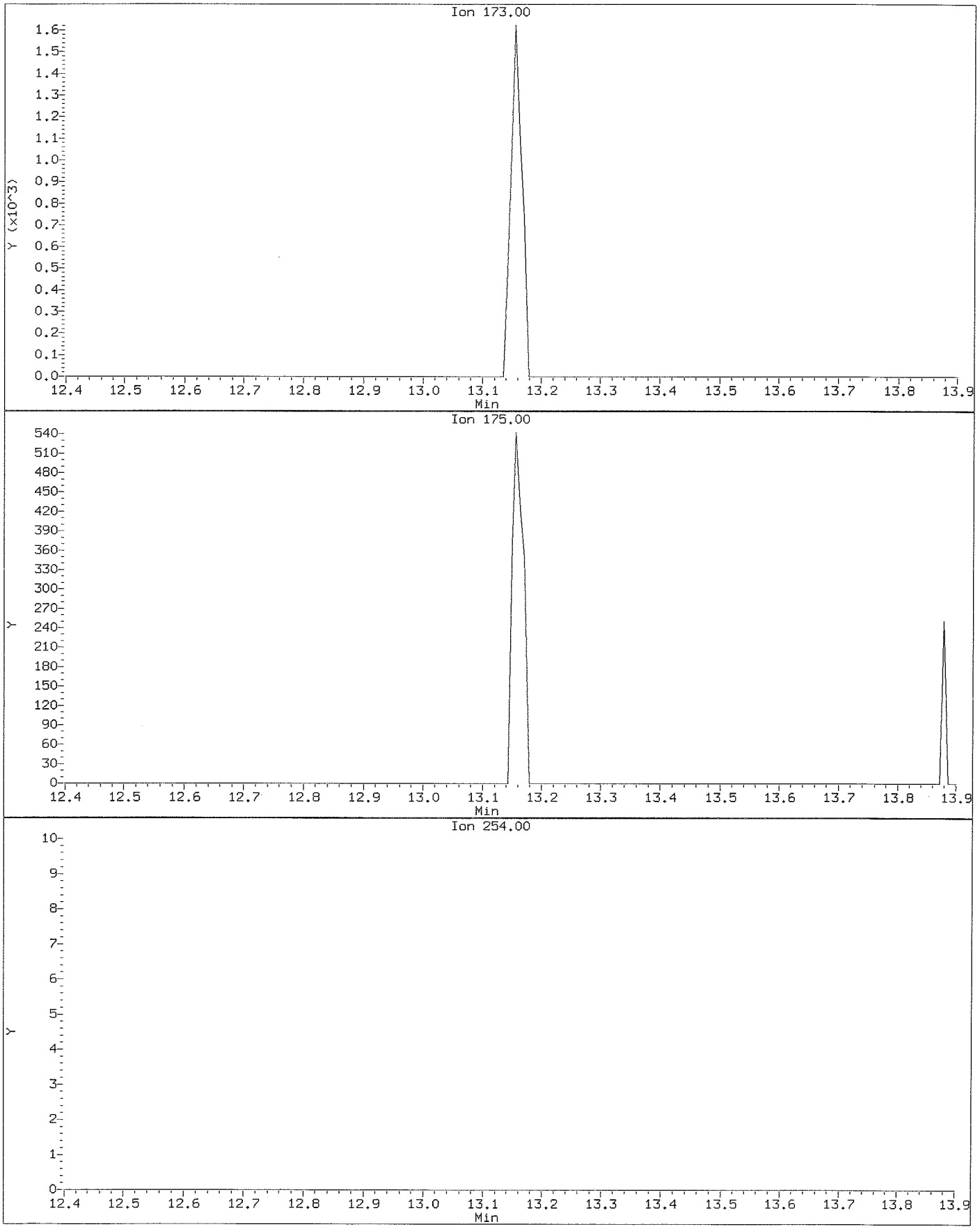
Compound: 1,1,1,2-Tetrachloroethane
CAS Number: 630-20-6



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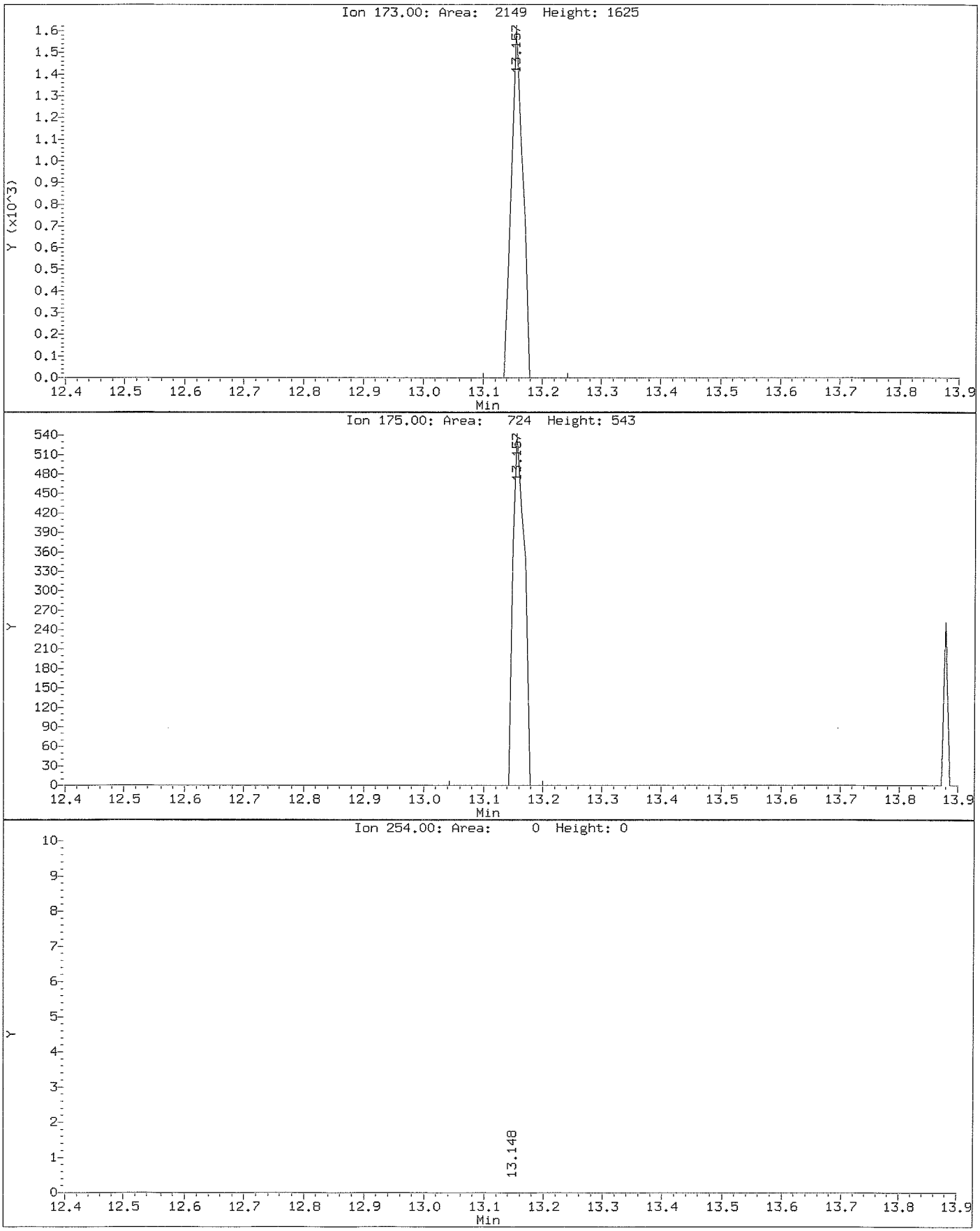
Compound: Bromoform
CAS Number: 75-25-2



Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9536.D
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After

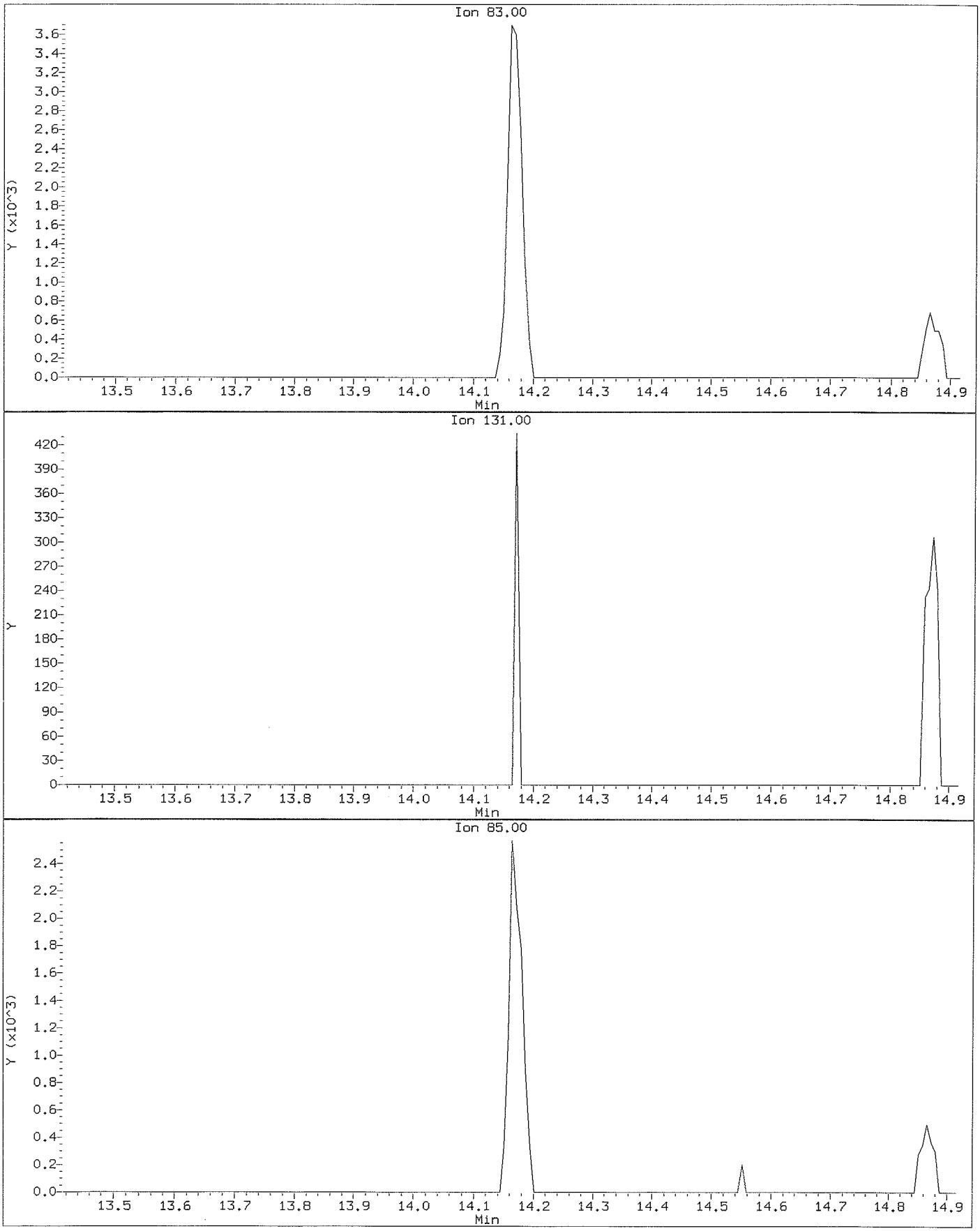
Compound: Bromoform
CAS Number: 75-25-2



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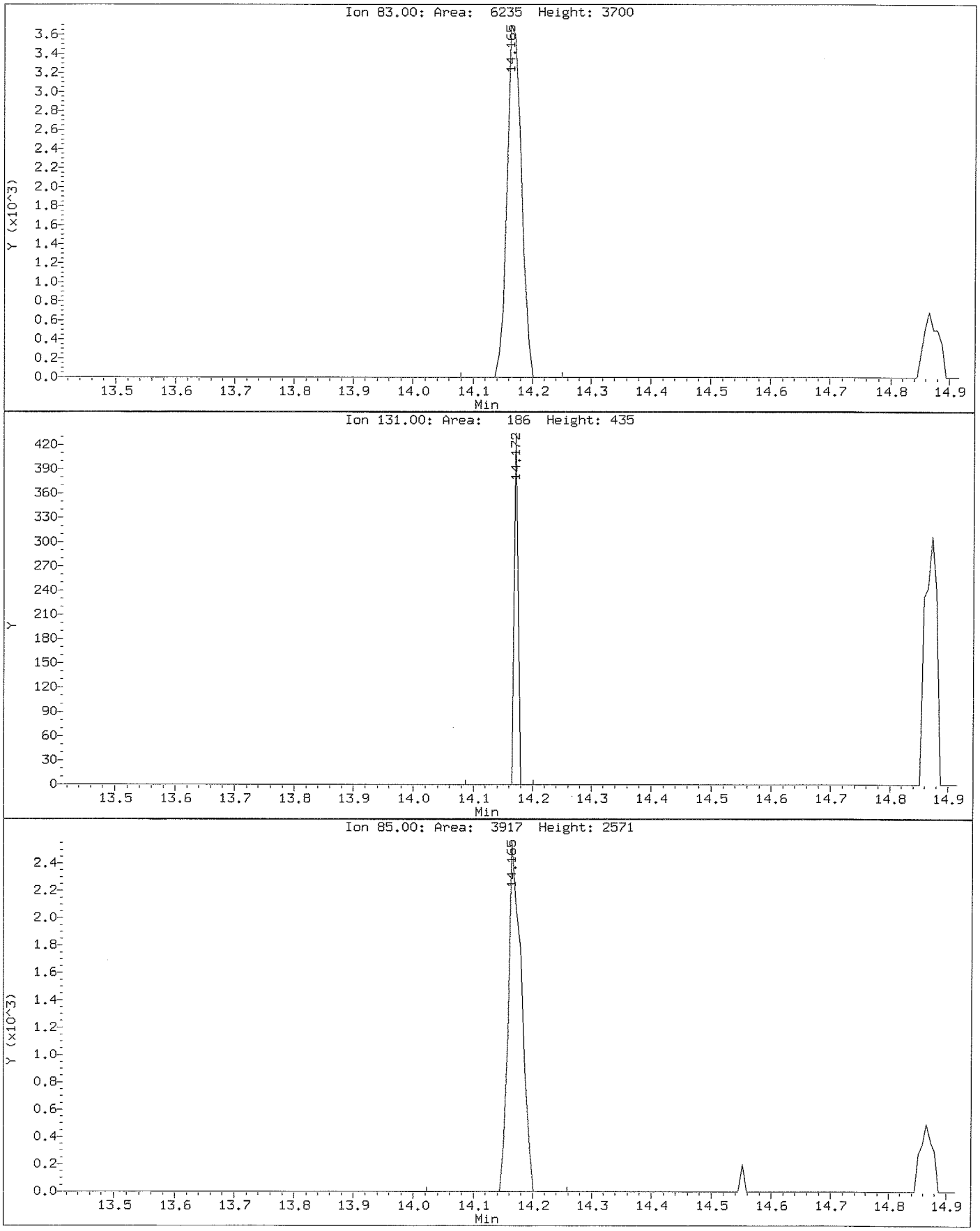
Compound: 1,1,2,2-Tetrachloroethane
CAS Number: 79-34-5



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After

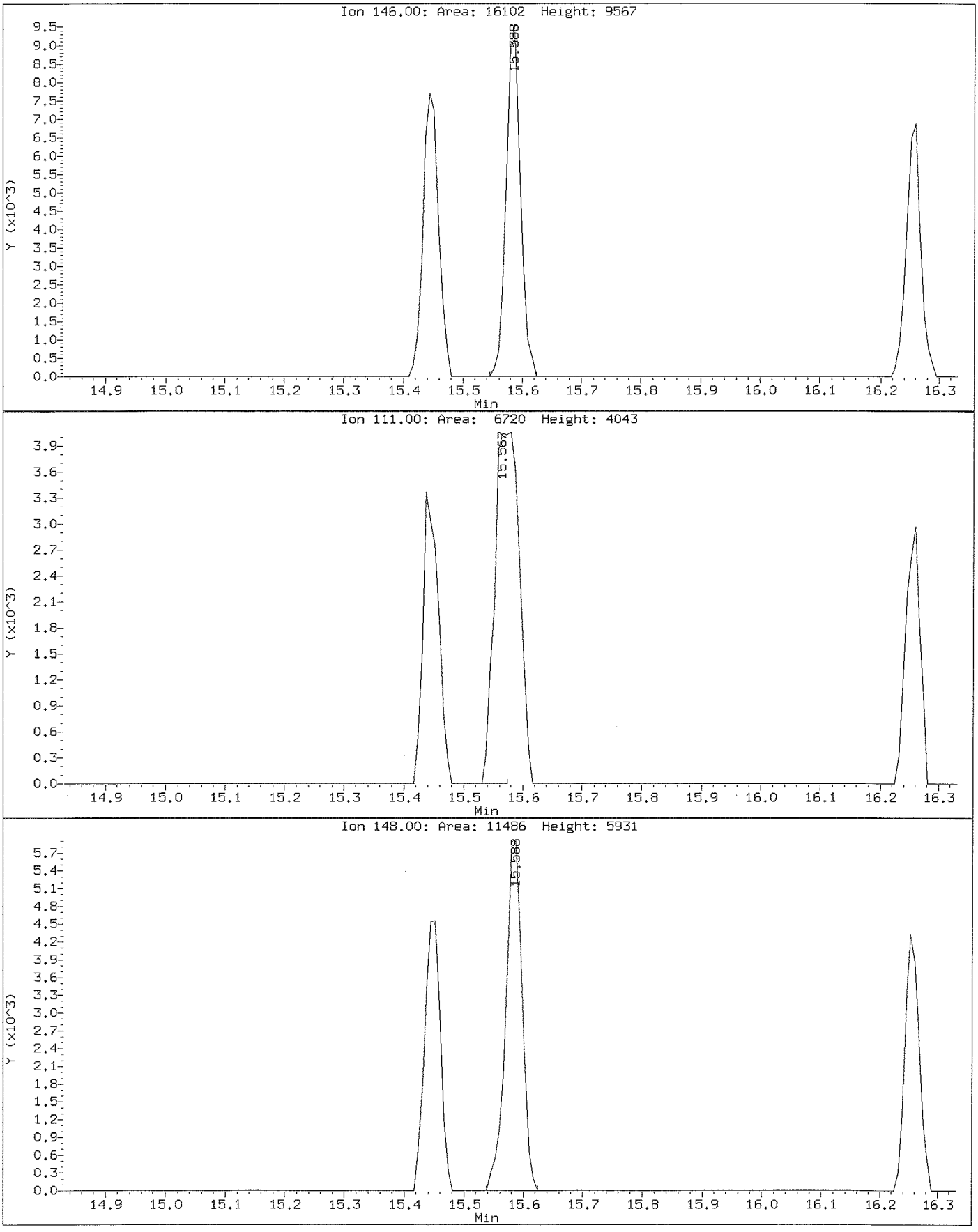
Compound: 1,1,2,2-Tetrachloroethane
CAS Number: 79-34-5



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Before

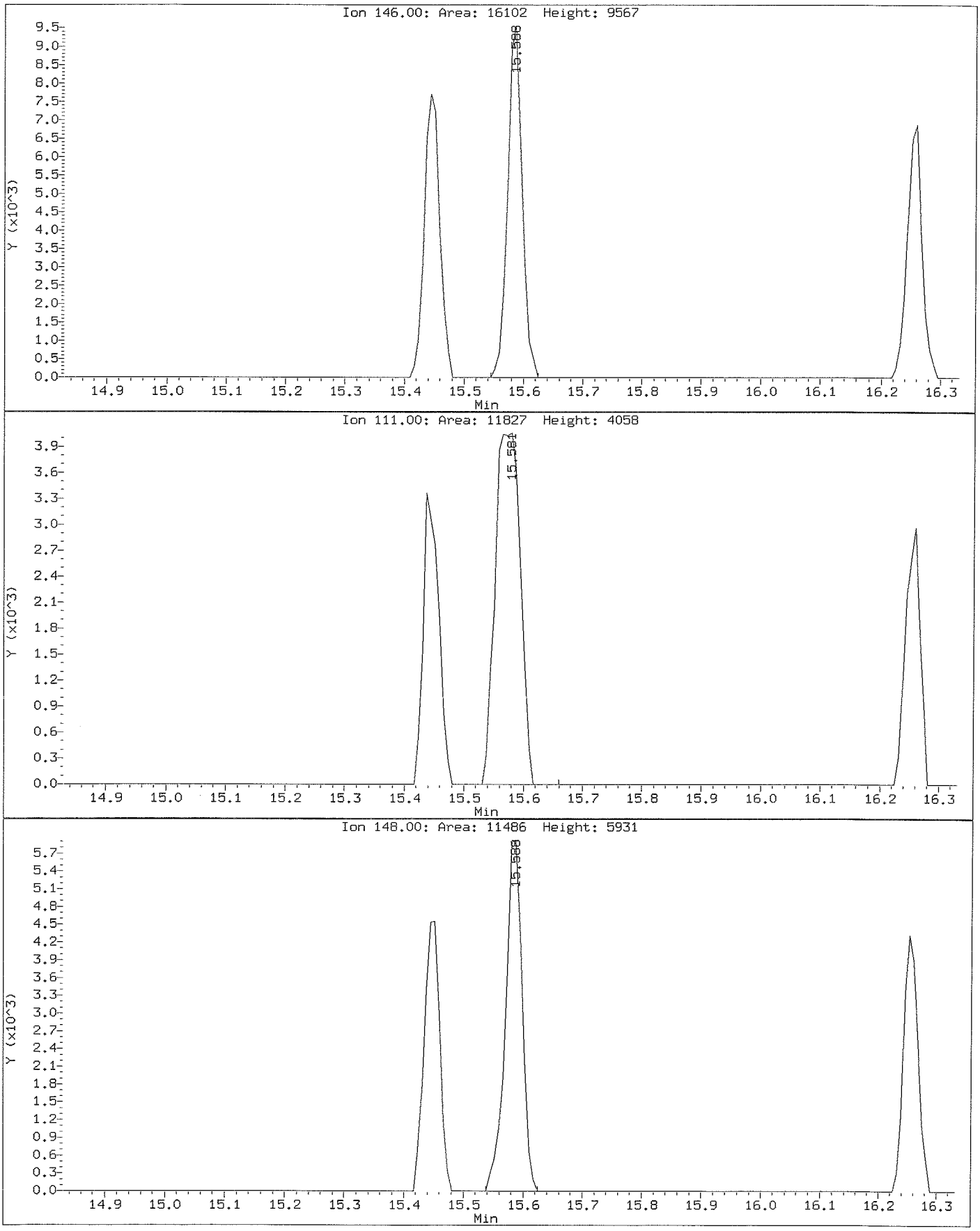
Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7



Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9536.D
Injection Date: 16-APR-2012 13:44
Instrument: gcms-d.i
Client Sample ID:

After

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7



Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9537a.D
Report Date: 17-Apr-2012 09:30

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D041612.b\D9537a.D
Lab Smp Id: WG107009-9 Client Smp ID: Independent Source
Inj Date : 16-APR-2012 14:30 MS Autotune Date: 05-MAR-2010 09:29
Operator : DCA Inst ID: gcms-d.i
Smp Info : WG107009-9
Misc Info : SW846 8260B
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-d.i\D041612.b\D826A91.m
Meth Date : 17-Apr-2012 09:24 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

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	2.107	2.101	(0.260)	241741	39.2783	39.3(R)	
2	Chloromethane	50	2.343	2.337	(0.289)	350016	42.8672	42.9	
3	Vinyl chloride	62	2.444	2.437	(0.301)	353366	49.5576	49.6	
4	Bromomethane	94	2.844	2.838	(0.351)	248484	47.7611	47.8	
5	Chloroethane	64	3.008	3.002	(0.371)	232644	44.6242	44.6	
6	Trichlorofluoromethane	101	3.194	3.181	(0.394)	430985	42.9402	42.9	
7	Diethyl Ether	59	3.602	3.603	(0.444)	226375	52.0082	52.0	
8	Tertiary-butyl alcohol	59	5.897	5.884	(0.727)	103437	279.343	279	
9	1,1-Dichloroethene	96	3.881	3.867	(0.479)	274572	49.1495	49.1	
10	Carbon Disulfide	76	3.924	3.903	(0.484)	972550	47.7973	47.8	
11	Freon-113	151	3.952	3.939	(0.488)	182745	49.5019	49.5	
12	Iodomethane	142	4.081	4.067	(0.503)	213079	42.4466	42.4	
13	Acrolein	56	4.367	4.361	(0.539)	159521	272.873	273	
14	Methylene Chloride	84	4.767	4.754	(0.588)	335016	60.3537	60.4(R)	
15	Acetone	43	4.839	4.833	(0.597)	59905	49.2040	49.2	
16	Isobutyl Alcohol	43	8.292	8.279	(1.023)	72509	606.535	606(R)	
17	trans-1,2-Dichloroethene	96	5.046	5.033	(0.623)	260581	47.5545	47.6	
18	Allyl Chloride	41	4.596	4.582	(0.567)	388415	52.9097	52.9	
19	Methyl tert-butyl ether	73	5.246	5.240	(0.647)	1201474	96.2806	96.3	
20	Acetonitrile	39	5.597	5.591	(0.690)	42670	397.095	397(R)	
21	Di-isopropyl ether	45	5.897	5.891	(0.727)	902778	53.1084	53.1	
22	Chloroprene	53	6.011	6.005	(0.742)	446595	52.2751	52.3	
23	Propionitrile	54	7.999	7.993	(0.987)	257891	472.718	473	

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9537a.D
Report Date: 17-Apr-2012 09:30

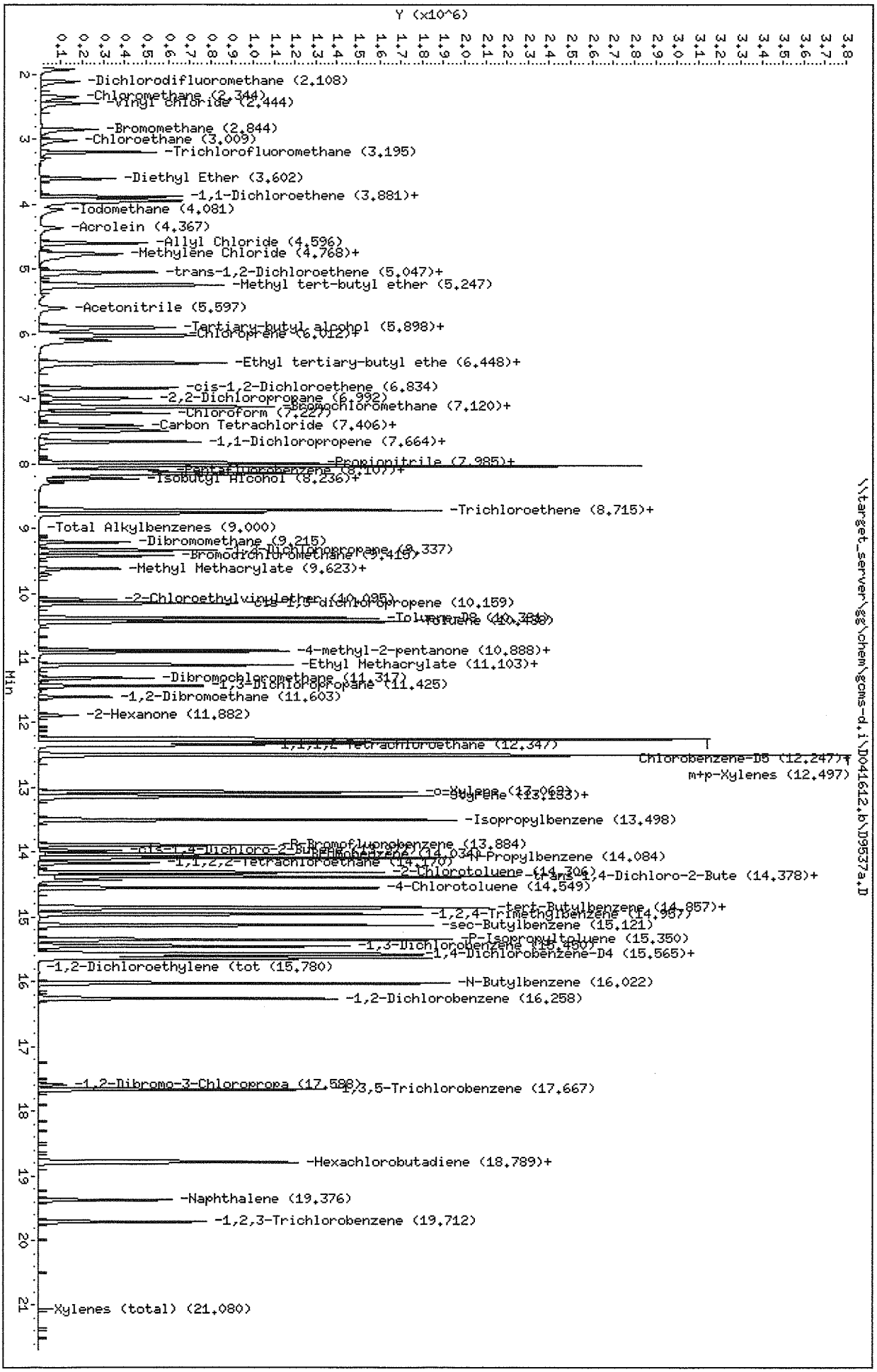
		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	24	Methacrylonitrile	41	8.035	8.022	(0.991)	1338455	535.953	536	
	25	1,1-Dichloroethane	63	6.040	6.027	(0.745)	499252	48.9893	49.0	
	26	Acrylonitrile	52	6.104	6.098	(0.753)	317837	245.990	246	
	27	Ethyl tertiary-butyl ether	59	6.448	6.441	(0.795)	766655	52.2819	52.3	
	28	Vinyl Acetate	43	6.448	6.441	(0.736)	446810	40.1784	40.2	
	29	cis-1,2-Dichloroethene	96	6.834	6.828	(0.843)	285593	48.0423	48.0	
M	30	1,2-Dichloroethylene (total)	96				546174	95.5968	95.6	
	31	Methyl Methacrylate	41	9.622	9.609	(1.098)	176360	46.4980	46.5	
	32	2,2-Dichloropropane	77	6.991	6.978	(0.862)	356573	48.2119	48.2	
	33	Bromochloromethane	128	7.105	7.092	(0.877)	109576	48.5643	48.6	
	34	Chloroform	83	7.227	7.214	(0.892)	455221	48.4489	48.4	
	35	Carbon Tetrachloride	117	7.406	7.400	(0.845)	327279	48.9597	49.0	
	36	Tetrahydrofuran	42	7.434	7.421	(0.917)	48483	49.5278	49.5	
$	37	Dibromofluoromethane	113	7.463	7.457	(0.921)	239035	51.6453	51.6	
	38	1,1,1-Trichloroethane	97	7.499	7.485	(0.925)	390946	47.2450	47.2	
	39	1,1-Dichloropropene	75	7.663	7.657	(0.874)	380815	48.8869	48.9	
	40	2-Butanone	43	7.635	7.628	(0.942)	73777	51.1737	51.2	
	41	Benzene	78	7.985	7.972	(0.911)	1179368	48.7728	48.8	
*	42	Pentafluorobenzene	168	8.106	8.100	(1.000)	475811	50.0000		
	43	Cyclohexane	56	7.127	7.114	(0.879)	516849	53.7577	53.8	
	44	Ethyl Methacrylate	69	11.109	11.103	(1.268)	286257	45.4392	45.4	
$	45	1,2-Dichloroethane-D4	65	8.149	8.135	(1.005)	283246	52.0744	52.1	
	46	Tertiary-amyl methyl ether	73	8.156	8.150	(1.006)	671054	52.0141	52.0	
	47	1,2-Dichloroethane	62	8.235	8.222	(0.940)	338287	50.8221	50.8	
	48	Trichloroethene	95	8.721	8.708	(0.995)	284488	45.3227	45.3	
*	49	1,4-Difluorobenzene	114	8.764	8.751	(1.000)	849306	50.0000		
	50	Dibromomethane	93	9.215	9.209	(1.051)	152494	52.0902	52.1	
	51	1,2-Dichloropropane	63	9.336	9.330	(1.065)	288233	51.2406	51.2	
	52	Bromodichloromethane	83	9.415	9.409	(1.074)	371149	52.9414	52.9	
	53	cis-1,3-dichloropropene	75	10.159	10.152	(1.159)	464098	54.7543	54.8	
	54	1,4-Dioxane	88	9.658	9.652	(1.102)	16625	348.381	348(R)	
$	55	Toluene-D8	98	10.380	10.374	(1.184)	1055070	56.3539	56.4	
	56	2-Chloroethylvinylether	63	10.094	10.088	(1.152)	134612	42.6496	42.6	
	57	Toluene	92	10.437	10.431	(1.191)	764447	49.6398	49.6	
	58	4-methyl-2-pentanone	43	10.874	10.867	(1.241)	178647	54.6914	54.7	
	59	Tetrachloroethene	164	10.888	10.882	(0.889)	212178	45.2760	45.3	
	60	trans-1,3-Dichloropropene	75	10.916	10.903	(1.246)	415675	51.3102	51.3	
	61	1,1,2-Trichloroethane	83	11.102	11.089	(1.267)	199337	50.6597	50.6	
	62	Dibromochloromethane	129	11.317	11.304	(0.924)	254718	53.4485	53.4	
	63	1,3-Dichloropropane	76	11.431	11.418	(0.933)	431776	50.7427	50.7	
	64	1,2-Dibromoethane	107	11.603	11.590	(1.324)	225737	51.3250	51.3	
	65	2-Hexanone	43	11.882	11.876	(0.970)	115431	52.4467	52.4	
*	66	Chlorobenzene-D5	117	12.246	12.233	(1.000)	843221	50.0000		
	67	Chlorobenzene	112	12.268	12.254	(1.002)	839065	52.0941	52.1	
	152	1-Chlorohexane	91	12.246	12.233	(1.000)	473592	52.3285	52.3	
	68	Ethylbenzene	106	12.311	12.297	(1.005)	443265	47.8746	47.9	
	69	1,1,1,2-Tetrachloroethane	131	12.346	12.340	(1.008)	269899	52.4952	52.5	
M	70	Xylenes (total)	106				1702729	153.304	153	
	71	m+p-Xylenes	106	12.497	12.490	(1.020)	1162236	100.259	100	
	72	o-Xylene	106	13.061	13.055	(1.067)	540493	53.0453	53.0	
	73	Styrene	104	13.133	13.127	(1.072)	941191	54.6030	54.6	
	74	Bromoform	173	13.162	13.148	(1.075)	140750	46.8522	46.8	
	75	Isopropylbenzene	105	13.498	13.491	(0.867)	1375742	59.4935	59.5	
$	76	P-Bromofluorobenzene	95	13.884	13.878	(1.584)	402836	54.6739	54.7	

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9537a.D
Report Date: 17-Apr-2012 09:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	77 cis-1,4-Dichloro-2-Butene	53	13.977	13.963	(0.898)	87411	54.3248	54.3	
	78 trans-1,4-Dichloro-2-Butene	53	14.434	14.428	(0.927)	82607	49.0026	49.0	
	79 Bromobenzene	156	14.034	14.028	(0.902)	311027	49.7349	49.7	
	80 N-Propylbenzene	91	14.084	14.078	(0.905)	1726120	52.5194	52.5	
	81 1,1,2,2-Tetrachloroethane	83	14.170	14.164	(0.910)	295529	49.1404	49.1	
	82 1,3,5-Trimethylbenzene	105	14.377	14.371	(0.924)	1140320	49.7455	49.7	
	83 2-Chlorotoluene	91	14.306	14.299	(0.919)	987562	50.2087	50.2	
	84 1,2,3-Trichloropropane	75	14.370	14.357	(0.923)	243810	49.3582	49.4	
	85 4-Chlorotoluene	91	14.549	14.543	(0.935)	1048999	52.2048	52.2	
	86 tert-Butylbenzene	119	14.849	14.843	(0.954)	1142588	51.7265	51.7	
	87 Pentachloroethane	117	14.870	14.864	(0.955)	241440	53.0011	53.0	
	88 1,2,4-Trimethylbenzene	105	14.956	14.950	(0.961)	1152850	50.6951	50.7	
	89 P-Isopropyltoluene	119	15.350	15.343	(0.986)	1231788	54.8838	54.9	
	90 1,3-Dichlorobenzene	146	15.450	15.436	(0.993)	629123	49.3422	49.3	
*	91 1,4-Dichlorobenzene-D4	152	15.564	15.558	(1.000)	437572	50.0000		
	92 1,4-Dichlorobenzene	146	15.585	15.579	(1.001)	653210	47.7359	47.7	
	93 N-Butylbenzene	91	16.022	16.015	(1.029)	1198070	51.7178	51.7	
	94 sec-Butylbenzene	105	15.128	15.115	(0.972)	1509065	50.9707	51.0	
	95 1,2-Dichlorobenzene	146	16.258	16.251	(1.045)	588871	50.1728	50.2	
	96 1,2-Dibromo-3-Chloropropane	75	17.588	17.588	(1.130)	38783	41.6845	41.7	
	97 1,3,5-Trichlorobenzene	180	17.666	17.660	(1.135)	433563	49.9006	49.9	
	98 Hexachlorobutadiene	225	18.774	18.768	(1.206)	147944	48.4964	48.5	
	99 1,2,4-Trichlorobenzene	180	18.796	18.790	(1.208)	323963	48.6951	48.7	
	100 1,2,3-Trimethylbenzene	105	15.636	15.629	(1.005)	1150013	53.4221	53.4	
	101 Naphthalene	128	19.375	19.369	(1.245)	510049	40.2688	40.3	
	102 1,2,3-Trichlorobenzene	180	19.711	19.705	(1.266)	239887	46.8673	46.9	
	103 Methyl Acetate	43	5.075	5.069	(0.626)	159313	49.9337	49.9	
	104 Methylcyclohexane	83	8.714	8.708	(1.075)	505092	52.7428	52.7	
M	153 Total Alkylbenzenes	100				9100801	362.259	362	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.



Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9537a.D
Date : 16-APR-2012 14:30
Client ID: Independent Source
Sample Info: WG107009-9
Purge Volume: 5.0
Column phase: RTX-VMS

\\target_server\gg\chem\gcms-d.i\D041612.b\D9537a.D

Instrument: gcms-d.i
Operator: DCA
Column diameter: 0.18

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9537a.D
Report Date: 17-Apr-2012 09:30

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: WG107009-9
Level: LOW
Data Type: MS DATA
SpikeList File: IND_CHECK4.1.spk
Sublist File: all.sub
Method File: \\target_server\GG\chem\gcms-d.i\D041612.b\D826A91.m
Misc Info: SW846 8260B

Client SDG: WG107009
Fraction: VOA
Client Smp ID: Independent Source
Operator: DCA
SampleType: LCS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	1 Dichlorodifluorome	50.0	39.3	78.56*	80-120
	2 Chloromethane	50.0	42.9	85.73	80-120
	3 Vinyl chloride	50.0	49.6	99.12	80-120
	4 Bromomethane	50.0	47.8	95.52	80-120
	5 Chloroethane	50.0	44.6	89.25	80-120
	6 Trichlorofluoromet	50.0	42.9	85.88	80-120
	7 Diethyl Ether	50.0	52.0	104.02	80-120
	8 Tertiary-butyl alc	250	279	111.74	80-120
	9 1,1-Dichloroethene	50.0	49.1	98.30	80-120
	10 Carbon Disulfide	50.0	47.8	95.59	80-120
	11 Freon-113	50.0	49.5	99.00	80-120
	12 Iodomethane	50.0	42.4	84.89	80-120
	13 Acrolein	250	273	109.15	80-120
	14 Methylene Chloride	50.0	60.4	120.71*	80-120
	15 Acetone	50.0	49.2	98.41	80-120
	16 Isobutyl Alcohol	1000	606	60.65*	80-120
	17 trans-1,2-Dichloro	50.0	47.6	95.11	80-120
	18 Allyl Chloride	50.0	52.9	105.82	80-120
	19 Methyl tert-butyl	100	96.3	96.28	80-120
	20 Acetonitrile	500	397	79.42*	80-120
	21 Di-isopropyl ether	50.0	53.1	106.22	80-120
	22 Chloroprene	50.0	52.3	104.55	80-120
	23 Propionitrile	500	473	94.54	80-120
	24 Methacrylonitrile	500	536	107.19	80-120
	25 1,1-Dichloroethane	50.0	49.0	97.98	80-120
	26 Acrylonitrile	250	246	98.40	80-120
	27 Ethyl tertiary-but	50.0	52.3	104.56	80-120
	28 Vinyl Acetate	50.0	40.2	80.36	80-120
	29 cis-1,2-Dichloroet	50.0	48.0	96.08	80-120
M	30 1,2-Dichloroethyle	100	95.6	95.60	80-120
	31 Methyl Methacrylat	50.0	46.5	93.00	80-120
	32 2,2-Dichloropropan	50.0	48.2	96.42	80-120
	33 Bromochloromethane	50.0	48.6	97.13	80-120
	34 Chloroform	50.0	48.4	96.90	80-120
	35 Carbon Tetrachlori	50.0	49.0	97.92	80-120
	36 Tetrahydrofuran	50.0	49.5	99.06	80-120
	38 1,1,1-Trichloroeth	50.0	47.2	94.49	80-120
	39 1,1-Dichloropropen	50.0	48.9	97.77	80-120
	40 2-Butanone	50.0	51.2	102.35	80-120
	41 Benzene	50.0	48.8	97.55	80-120

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9537a.D
Report Date: 17-Apr-2012 09:30

	SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	43	Cyclohexane	50.0	53.8	107.52	80-120
	44	Ethyl Methacrylate	50.0	45.4	90.88	80-120
	46	Tertiary-amyl meth	50.0	52.0	104.03	80-120
	47	1,2-Dichloroethane	50.0	50.8	101.64	80-120
	48	Trichloroethene	50.0	45.3	90.65	80-120
	50	Dibromomethane	50.0	52.1	104.18	80-120
	51	1,2-Dichloropropan	50.0	51.2	102.48	80-120
	52	Bromodichlorometha	50.0	52.9	105.88	80-120
	53	cis-1,3-dichloropr	50.0	54.8	109.51	80-120
	54	1,4-Dioxane	1000	348	34.84*	80-120
	56	2-Chloroethylvinyl	50.0	42.6	85.30	80-120
	57	Toluene	50.0	49.6	99.28	80-120
	58	4-methyl-2-pentano	50.0	54.7	109.38	80-120
	59	Tetrachloroethene	50.0	45.3	90.55	80-120
	60	trans-1,3-Dichloro	50.0	51.3	102.62	80-120
	61	1,1,2-Trichloroeth	50.0	50.6	101.32	80-120
	62	Dibromochlorometha	50.0	53.4	106.90	80-120
	63	1,3-Dichloropropan	50.0	50.7	101.49	80-120
	64	1,2-Dibromoethane	50.0	51.3	102.65	80-120
	65	2-Hexanone	50.0	52.4	104.89	80-120
	67	Chlorobenzene	50.0	52.1	104.19	80-120
	152	1-Chlorohexane	50.0	52.3	104.66	80-120
	68	Ethylbenzene	50.0	47.9	95.75	80-120
	69	1,1,1,2-Tetrachlor	50.0	52.5	104.99	80-120
M	70	Xylenes (total)	150	153	102.20	80-120
	71	m+p-Xylenes	100	100	100.26	80-120
	72	o-Xylene	50.0	53.0	106.09	80-120
	73	Styrene	50.0	54.6	109.21	80-120
	74	Bromoform	50.0	46.8	93.70	80-120
	75	Isopropylbenzene	50.0	59.5	118.99	80-120
	77	cis-1,4-Dichloro-2	50.0	54.3	108.65	80-120
	78	trans-1,4-Dichloro	50.0	49.0	98.01	80-120
	79	Bromobenzene	50.0	49.7	99.47	80-120
	80	N-Propylbenzene	50.0	52.5	105.04	80-120
	81	1,1,2,2-Tetrachlor	50.0	49.1	98.28	80-120
	82	1,3,5-Trimethylben	50.0	49.7	99.49	80-120
	83	2-Chlorotoluene	50.0	50.2	100.42	80-120
	84	1,2,3-Trichloropro	50.0	49.4	98.72	80-120
	85	4-Chlorotoluene	50.0	52.2	104.41	80-120
	86	tert-Butylbenzene	50.0	51.7	103.45	80-120
	87	Pentachloroethane	50.0	53.0	106.00	80-120
	88	1,2,4-Trimethylben	50.0	50.7	101.39	80-120
	89	P-Isopropyltoluene	50.0	54.9	109.77	80-120
	90	1,3-Dichlorobenzen	50.0	49.3	98.68	80-120
	92	1,4-Dichlorobenzen	50.0	47.7	95.47	80-120
	93	N-Butylbenzene	50.0	51.7	103.44	80-120
	94	sec-Butylbenzene	50.0	51.0	101.94	80-120
	95	1,2-Dichlorobenzen	50.0	50.2	100.35	80-120
	96	1,2-Dibromo-3-Chlo	50.0	41.7	83.37	80-120
	97	1,3,5-Trichloroben	50.0	49.9	99.80	80-120
	98	Hexachlorobutadien	50.0	48.5	96.99	80-120
	99	1,2,4-Trichloroben	50.0	48.7	97.39	80-120
	100	1,2,3-Trimethylben	50.0	53.4	106.84	80-120
	101	Naphthalene	50.0	40.3	80.54	80-120

Data File: \\target_server\gg\chem\gcms-d.i\D041612.b\D9537a.D
Report Date: 17-Apr-2012 09:30

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
102 1,2,3-Trichloroben	50.0	46.9	93.73	80-120
103 Methyl Acetate	50.0	49.9	99.87	80-120
104 Methylcyclohexane	50.0	52.7	105.49	80-120
M 153 Total Alkylbenzene	350	362	103.50	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	51.6	103.29	68-128
$ 45 1,2-Dichloroethane	50.0	52.1	104.15	67-135
$ 55 Toluene-D8	50.0	56.4	112.71	65-128
$ 76 P-Bromofluorobenze	50.0	54.7	109.35	56-133

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, , **SDG:** SF2129
Lab ID : WG107276-4 **Analytical Date:** 04/23/12 09:20
Lab File ID : D9676.D **Instrument ID:** GCMS-D
Initial Calibration Date(s): 04/16/12 10:26 04/16/12 13:44

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1 Dichlorodifluoromethane	0.64674	0.62272	0.62272	0.010	-3.71412	20.00000	Averaged	
2 Chloromethane	0.85802	0.80514	0.80514	0.100	-6.16322	20.00000	Averaged	
3 Vinyl chloride	50.00000	55.27716	0.82715	0.010	10.55431	20.00000	Linear	
4 Bromomethane	0.54671	0.56046	0.56046	0.010	2.51486	20.00000	Averaged	
5 Chloroethane	0.54784	0.56585	0.56585	0.010	3.28707	20.00000	Averaged	
6 Trichlorofluoromethane	1.05471	1.06687	1.06687	0.010	1.15304	20.00000	Averaged	
9 1,1-Dichloroethene	50.00000	47.66023	0.55873	0.100	-4.67954	20.00000	Linear	
10 Carbon Disulfide	50.00000	50.26113	2.15228	0.010	0.52225	20.00000	Linear	
11 Freon-113	50.00000	51.25397	0.39849	0.010	2.50794	20.00000	Linear	
14 Methylene Chloride	50.00000	52.52462	0.61493	0.010	5.04923	20.00000	Linear	
15 Acetone	0.12794	0.12987	0.12987	0.010	1.50798	20.00000	Averaged	
17 trans-1,2-Dichloroethene	50.00000	47.52466	0.54732	0.010	-4.95069	20.00000	Linear	
19 Methyl tert-butyl ether	1.31133	1.40141	1.40141	0.010	6.86924	20.00000	Averaged	
25 1,1-Dichloroethane	1.07091	1.04830	1.04830	0.100	-2.11169	20.00000	Averaged	
29 cis-1,2-Dichloroethene	0.62468	0.61446	0.61446	0.010	-1.63630	20.00000	Averaged	
33 Bromochloromethane	0.23710	0.24860	0.24860	0.010	4.85050	20.00000	Averaged	
34 Chloroform	0.98736	0.99224	0.99224	0.010	0.49440	20.00000	Averaged	
35 Carbon Tetrachloride	0.39354	0.38420	0.38420	0.010	-2.37160	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.86955	0.84420	0.84420	0.010	-2.91620	20.00000	Averaged	
40 2-Butanone	250	288	0.22087	0.010	15.08526	20.00000	Linear	
41 Benzene	1.42356	1.44051	1.44051	0.010	1.19006	20.00000	Averaged	
43 Cyclohexane	1.01032	0.99904	0.99904	0.010	-1.11609	20.00000	Averaged	
47 1,2-Dichloroethane	0.39187	0.42467	0.42467	0.010	8.37156	20.00000	Averaged	
48 Trichloroethene	50.00000	45.80030	0.33880	0.010	-8.39939	20.00000	Linear	
51 1,2-Dichloropropane	0.33116	0.34532	0.34532	0.010	4.27509	20.00000	Averaged	
52 Bromodichloromethane	0.41272	0.44684	0.44684	0.010	8.26542	20.00000	Averaged	
53 cis-1,3-dichloropropene	0.49900	0.55623	0.55623	0.010	11.47071	20.00000	Averaged	
54 1,4-Dioxane	1000	373	0.00105	0.001	-62.73826	20.00000	Linear	*
57 Toluene	0.90662	0.92846	0.92846	0.010	2.40986	20.00000	Averaged	
58 4-methyl-2-pentanone	250	290	0.29604	0.010	16.17442	20.00000	Quadratic	
59 Tetrachloroethene	50.00000	45.36972	0.25217	0.010	-9.26056	20.00000	Linear	
60 trans-1,3-Dichloropropene	50.00000	50.20209	0.47812	0.010	0.40418	20.00000	Linear	
61 1,1,2-Trichloroethane	0.23165	0.26246	0.26246	0.010	13.30057	20.00000	Averaged	
62 Dibromochloromethane	0.28259	0.30908	0.30908	0.010	9.37430	20.00000	Averaged	
64 1,2-Dibromoethane	0.25893	0.29551	0.29551	0.010	14.12810	20.00000	Averaged	
65 2-Hexanone	250	268	0.18778	0.010	7.03581	20.00000	Quadratic	
67 Chlorobenzene	50.00000	51.54500	0.98468	0.300	3.09000	20.00000	Linear	
68 Ethylbenzene	0.54902	0.52103	0.52103	0.010	-5.09776	20.00000	Averaged	
71 m+p-Xylenes	0.68738	0.68414	0.68414	0.010	-0.47146	20.00000	Averaged	
72 o-Xylene	0.60419	0.62688	0.62688	0.010	3.75498	20.00000	Averaged	
73 Styrene	1.02209	1.11249	1.11249	0.010	8.84432	20.00000	Averaged	

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, , **SDG:** SF2129
Lab ID : WG107276-4 **Analytical Date:** 04/23/12 09:20
Lab File ID : D9676.D **Instrument ID:** GCMS-D
Initial Calibration Date(s): 04/16/12 10:26 04/16/12 13:44

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
74 Bromoform	50.00000	52.02424	0.18630	0.100	4.04848	20.00000	Linear	
75 Isopropylbenzene	2.64233	2.51214	2.51214	0.010	-4.92704	20.00000	Averaged	
80 N-Propylbenzene	3.75553	3.61794	3.61794	0.010	-3.66378	20.00000	Averaged	
81 1,1,2,2-Tetrachloroethane	0.68720	0.75378	0.75378	0.300	9.68917	20.00000	Averaged	
82 1,3,5-Trimethylbenzene	2.61935	2.58563	2.58563	0.010	-1.28722	20.00000	Averaged	
85 4-Chlorotoluene	2.29607	2.24027	2.24027	0.010	-2.43009	20.00000	Averaged	
86 tert-Butylbenzene	2.52404	2.44143	2.44143	0.010	-3.27292	20.00000	Averaged	
88 1,2,4-Trimethylbenzene	2.59853	2.54730	2.54730	0.010	-1.97147	20.00000	Averaged	
89 P-Isopropyltoluene	2.56456	2.49022	2.49022	0.010	-2.89884	20.00000	Averaged	
90 1,3-Dichlorobenzene	1.45692	1.35949	1.35949	0.010	-6.68805	20.00000	Averaged	
92 1,4-Dichlorobenzene	1.56361	1.45383	1.45383	0.010	-7.02091	20.00000	Averaged	
93 N-Butylbenzene	2.64705	2.56969	2.56969	0.010	-2.92249	20.00000	Averaged	
94 sec-Butylbenzene	3.38305	3.21565	3.21565	0.010	-4.94814	20.00000	Averaged	
95 1,2-Dichlorobenzene	1.34113	1.31234	1.31234	0.010	-2.14739	20.00000	Averaged	
96 1,2-Dibromo-3-Chloropropane	50.00000	49.61812	0.10646	0.010	-0.76377	20.00000	Quadratic	
99 1,2,4-Trichlorobenzene	50.00000	47.78361	0.72551	0.010	-4.43278	20.00000	Quadratic	
101 Naphthalene	50.00000	46.35552	1.35603	0.010	-7.28895	20.00000	Quadratic	
102 1,2,3-Trichlorobenzene	0.58487	0.59804	0.59804	0.010	2.25202	20.00000	Averaged	
103 Methyl Acetate	50.00000	55.79840	0.37435	0.010	11.59680	20.00000	Linear	
104 Methylcyclohexane	1.00634	1.04699	1.04699	0.010	4.04006	20.00000	Averaged	
37 Dibromofluoromethane	0.48637	0.47658	0.47658	0.010	-2.01352	20.00000	Averaged	
45 1,2-Dichloroethane-D4	0.57158	0.57496	0.57496	0.010	0.59213	20.00000	Averaged	
55 Toluene-D8	1.10221	1.18523	1.18523	0.010	7.53269	20.00000	Averaged	
76 P-Bromofluorobenzene	0.43376	0.52205	0.52205	0.010	20.35265	20.00000	Averaged	*

*** = Compound out of QC criteria**

Data File: \\target_server\GG\chem\gcms-d.i\D042312.b\D9676.D
Report Date: 01-May-2012 15:51

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D042312.b\D9676.D
Lab Smp Id: WG107276-4 Client Smp ID: ontinuing Calibrati
Inj Date : 23-APR-2012 09:20 MS Autotune Date: 05-MAR-2010 09:29
Operator : MMM Inst ID: gcms-d.i
Smp Info : WG107276-4,SF2129
Misc Info : WG107276,WG107009-4,SF2129-2
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-d.i\D042312.b\D826A91.m
Meth Date : 01-May-2012 15:50 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 1 Continuing Calibration Sample
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	2.103	2.101	(0.259)	248544	50.0000	48.1	
2	Chloromethane	50	2.339	2.337	(0.288)	321351	50.0000	46.9	
3	Vinyl chloride	62	2.439	2.437	(0.301)	330136	50.0000	55.3	
4	Bromomethane	94	2.840	2.838	(0.350)	223694	50.0000	51.2	
5	Chloroethane	64	3.004	3.002	(0.370)	225845	50.0000	51.6	
6	Trichlorofluoromethane	101	3.190	3.181	(0.393)	425814	50.0000	50.6	
7	Diethyl Ether	59	3.605	3.603	(0.445)	212666	50.0000	58.2	
8	Tertiary-butyl alcohol	59	5.893	5.884	(0.727)	85625	250.000	276	
9	1,1-Dichloroethene	96	3.876	3.867	(0.478)	223003	50.0000	47.7	
10	Carbon Disulfide	76	3.912	3.903	(0.482)	859025	50.0000	50.3	
11	Freon-113	151	3.948	3.939	(0.487)	159045	50.0000	51.2	
12	Iodomethane	142	4.077	4.067	(0.503)	148508	50.0000	35.3	
13	Acrolein	56	4.363	4.361	(0.538)	163964	250.000	334	
14	Methylene Chloride	84	4.763	4.754	(0.587)	245435	50.0000	52.5	
15	Acetone	43	4.842	4.833	(0.597)	259165	250.000	254	
16	Isobutyl Alcohol	43	8.288	8.279	(1.022)	86392	1000.00	862	
17	trans-1,2-Dichloroethene	96	5.042	5.033	(0.622)	218448	50.0000	47.5	
18	Allyl Chloride	41	4.591	4.582	(0.566)	336390	50.0000	54.8	
19	Methyl tert-butyl ether	73	5.249	5.240	(0.647)	1118669	100.000	107	
20	Acetonitrile	39	5.600	5.591	(0.691)	45396	500.000	504	
21	Di-isopropyl ether	45	5.893	5.891	(0.727)	760774	50.0000	53.4	
22	Chloroprene	53	6.007	6.005	(0.741)	364281	50.0000	50.8	
23	Propionitrile	54	7.995	7.993	(0.986)	276622	500.000	604	
24	Methacrylonitrile	41	8.031	8.022	(0.990)	1397592	500.000	667	

Data File: \\target_server\GG\chem\gcms-d.i\D042312.b\D9676.D
Report Date: 01-May-2012 15:51

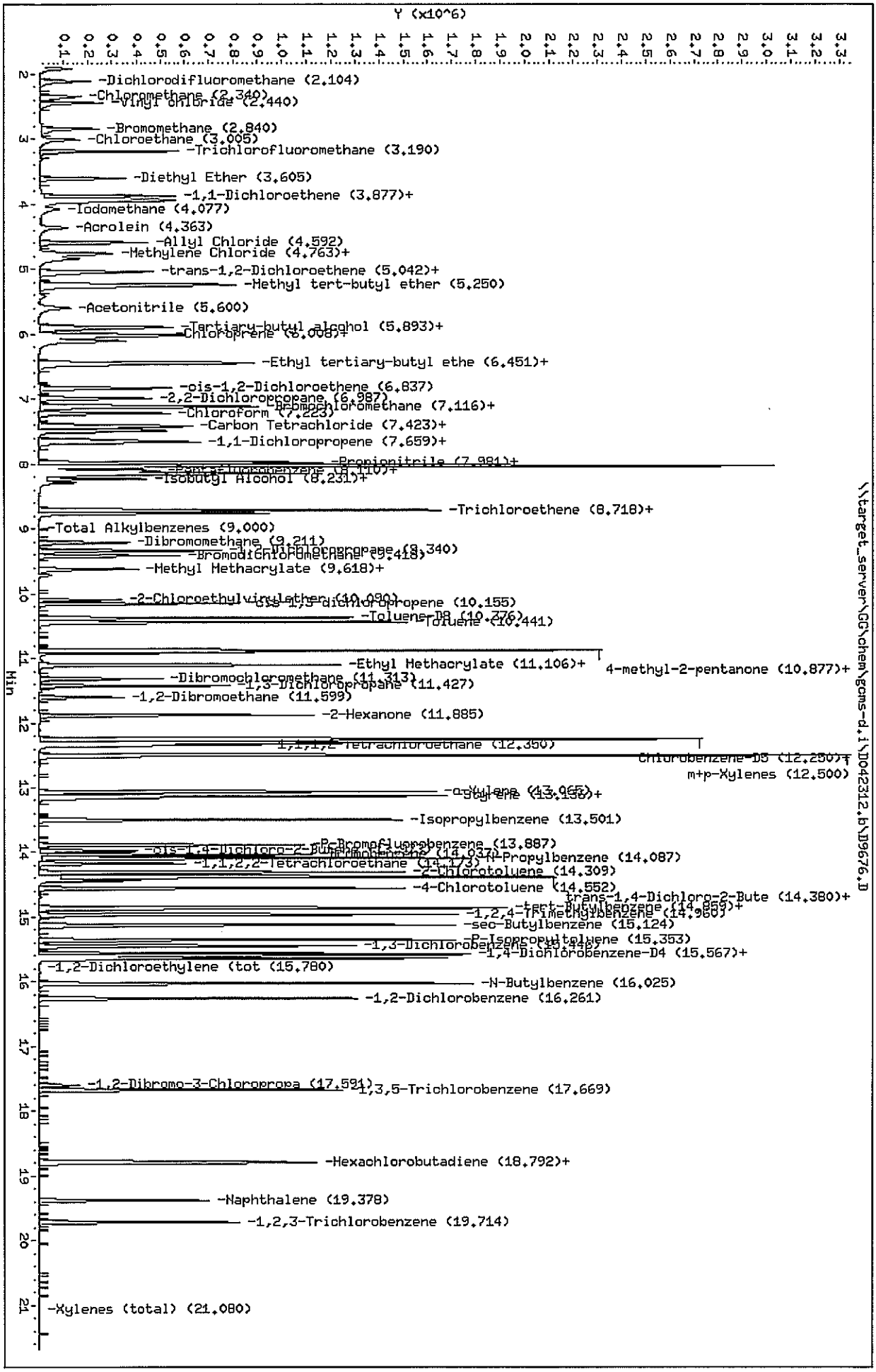
			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	6.036	6.027	(0.744)	418401	50.0000	48.9	
	26	Acrylonitrile	52	6.100	6.098	(0.752)	334413	250.000	308	
	27	Ethyl tertiary-butyl ether	59	6.450	6.441	(0.795)	693935	50.0000	56.4	
	28	Vinyl Acetate	43	6.450	6.441	(0.736)	531093	50.0000	54.5	
	29	cis-1,2-Dichloroethene	96	6.829	6.828	(0.842)	245246	50.0000	49.2	
M	30	1,2-Dichloroethylene (total)	96				463694	50.0000	(a)	
	31	Methyl Methacrylate	41	9.618	9.609	(1.098)	179261	50.0000	54.2	
	32	2,2-Dichloropropane	77	6.987	6.978	(0.862)	311413	50.0000	50.2	
	33	Bromochloromethane	128	7.108	7.092	(0.877)	99223	50.0000	52.4	
	34	Chloroform	83	7.223	7.214	(0.891)	396026	50.0000	50.2	
	35	Carbon Tetrachloride	117	7.409	7.400	(0.846)	281372	50.0000	48.8	
	36	Tetrahydrofuran	42	7.430	7.421	(0.916)	301058	250.000	284	
$	37	Dibromofluoromethane	113	7.466	7.457	(0.921)	190213	50.0000	49.0	
	38	1,1,1-Trichloroethane	97	7.494	7.485	(0.924)	336939	50.0000	48.5	
	39	1,1-Dichloropropene	75	7.659	7.657	(0.874)	323979	50.0000	48.2	
	40	2-Butanone	43	7.630	7.628	(0.941)	440776	250.000	288	
	41	Benzene	78	7.981	7.972	(0.911)	1054956	50.0000	50.6	
*	42	Pentafluorobenzene	168	8.109	8.100	(1.000)	399124	50.0000		
	43	Cyclohexane	56	7.123	7.114	(0.878)	398742	50.0000	49.4	
	44	Ethyl Methacrylate	69	11.112	11.103	(1.269)	292296	50.0000	53.1	
$	45	1,2-Dichloroethane-D4	65	8.145	8.135	(1.004)	229481	50.0000	50.3	
	46	Tertiary-amyl methyl ether	73	8.152	8.150	(1.005)	626143	50.0000	57.8	
	47	1,2-Dichloroethane	62	8.231	8.222	(0.940)	311009	50.0000	54.2	
	48	Trichloroethene	95	8.717	8.708	(0.995)	248119	50.0000	45.8	
*	49	1,4-Difluorobenzene	114	8.760	8.751	(1.000)	732351	50.0000		
	50	Dibromomethane	93	9.210	9.209	(1.051)	136227	50.0000	54.0	
	51	1,2-Dichloropropane	63	9.339	9.330	(1.066)	252892	50.0000	52.1	
	52	Bromodichloromethane	83	9.418	9.409	(1.075)	327241	50.0000	54.1	
	53	cis-1,3-dichloropropene	75	10.154	10.152	(1.159)	407359	50.0000	55.7	
	54	1,4-Dioxane	88	9.661	9.652	(1.103)	15391	1000.00	373	
$	55	Toluene-D8	98	10.376	10.374	(1.184)	868006	50.0000	53.8	
	56	2-Chloroethylvinylether	63	10.090	10.088	(1.152)	125940	50.0000	46.0	
	57	Toluene	92	10.440	10.431	(1.192)	679962	50.0000	51.2	
	58	4-methyl-2-pentanone	43	10.869	10.867	(1.241)	1084016	250.000	290	
	59	Tetrachloroethene	164	10.884	10.882	(0.889)	191850	50.0000	45.4	
	60	trans-1,3-Dichloropropene	75	10.912	10.903	(1.246)	350150	50.0000	50.2	
	61	1,1,2-Trichloroethane	83	11.098	11.089	(1.267)	192213	50.0000	56.6	
	62	Dibromochloromethane	129	11.313	11.304	(0.924)	235143	50.0000	54.7	
	63	1,3-Dichloropropane	76	11.427	11.418	(0.933)	414005	50.0000	53.9	
	64	1,2-Dibromoethane	107	11.599	11.590	(1.324)	216417	50.0000	57.1	
	65	2-Hexanone	43	11.877	11.876	(0.970)	714303	250.000	268	
*	66	Chlorobenzene-D5	117	12.242	12.233	(1.000)	760788	50.0000		
	67	Chlorobenzene	112	12.271	12.254	(1.002)	749131	50.0000	51.5	
	152	1-Chlorohexane	91	12.242	12.233	(1.000)	391950	50.0000	48.0	
	68	Ethylbenzene	106	12.306	12.297	(1.005)	396394	50.0000	47.4	
	69	1,1,1,2-Tetrachloroethane	131	12.349	12.340	(1.009)	238590	50.0000	51.4	
M	70	Xylenes (total)	106				1517896	150.000	(a)	
	71	m+p-Xylenes	106	12.499	12.490	(1.021)	1040977	100.000	99.5	
	72	o-Xylene	106	13.064	13.055	(1.067)	476919	50.0000	51.9	
	73	Styrene	104	13.136	13.127	(1.073)	846368	50.0000	54.4	
	74	Bromoform	173	13.157	13.148	(1.075)	141735	50.0000	52.0	
	75	Isopropylbenzene	105	13.500	13.491	(0.867)	1052664	50.0000	47.5	
$	76	P-Bromofluorobenzene	95	13.887	13.878	(1.585)	382322	50.0000	60.2	
	77	cis-1,4-Dichloro-2-Butene	53	13.972	13.963	(0.898)	91529	50.0000	59.4	

Data File: \\target_server\GG\chem\gcms-d.i\D042312.b\D9676.D
Report Date: 01-May-2012 15:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.437	14.428	(0.927)	90425	50.0000	55.8	
79	Bromobenzene	156	14.037	14.028	(0.902)	288084	50.0000	48.1	
80	N-Propylbenzene	91	14.087	14.078	(0.905)	1516025	50.0000	48.2	
81	1,1,2,2-Tetrachloroethane	83	14.173	14.164	(0.910)	315857	50.0000	54.8	
82	1,3,5-Trimethylbenzene	105	14.380	14.371	(0.924)	1083457	50.0000	49.4	
83	2-Chlorotoluene	91	14.308	14.299	(0.919)	898633	50.0000	47.7	
84	1,2,3-Trichloropropane	75	14.373	14.357	(0.923)	259833	50.0000	54.9	
85	4-Chlorotoluene	91	14.552	14.543	(0.935)	938742	50.0000	48.8	
86	tert-Butylbenzene	119	14.852	14.843	(0.954)	1023034	50.0000	48.4	
87	Pentachloroethane	117	14.866	14.864	(0.955)	219945	50.0000	50.4	
88	1,2,4-Trimethylbenzene	105	14.959	14.950	(0.961)	1067395	50.0000	49.0	
89	P-Isopropyltoluene	119	15.352	15.343	(0.986)	1043475	50.0000	48.6	
90	1,3-Dichlorobenzene	146	15.452	15.436	(0.993)	569665	50.0000	46.6	
* 91	1,4-Dichlorobenzene-D4	152	15.567	15.558	(1.000)	419030	50.0000		
92	1,4-Dichlorobenzene	146	15.588	15.579	(1.001)	609198	50.0000	46.5	
93	N-Butylbenzene	91	16.024	16.015	(1.029)	1076779	50.0000	48.5	
94	sec-Butylbenzene	105	15.124	15.115	(0.972)	1347453	50.0000	47.5	
95	1,2-Dichlorobenzene	146	16.260	16.251	(1.045)	549908	50.0000	48.9	
96	1,2-Dibromo-3-Chloropropane	75	17.590	17.588	(1.130)	44612	50.0000	49.6	
97	1,3,5-Trichlorobenzene	180	17.669	17.660	(1.135)	392321	50.0000	47.2	
98	Hexachlorobutadiene	225	18.777	18.768	(1.206)	133184	50.0000	45.7	
99	1,2,4-Trichlorobenzene	180	18.799	18.790	(1.208)	304009	50.0000	47.8	
100	1,2,3-Trimethylbenzene	105	15.638	15.629	(1.005)	1025876	50.0000	49.8	
101	Naphthalene	128	19.378	19.369	(1.245)	568219	50.0000	46.4	
102	1,2,3-Trichlorobenzene	180	19.714	19.705	(1.266)	250596	50.0000	51.1	
103	Methyl Acetate	43	5.070	5.069	(0.625)	149411	50.0000	55.8	
104	Methylcyclohexane	83	8.710	8.708	(1.074)	417880	50.0000	52.0	
M 153	Total Alkylbenzenes	100				8157618	50.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\target_server\GC\chem\gcms-d.i\D042312.b\D9676.D
Date : 23-APR-2012 09:20
Client ID: ontinuing Calibrati
Sample Info: WG107276-4,SF2129
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-d.i
Operator: MHH
Column diameter: 0.18

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, , **SDG:** SF2129
Lab ID : WG107338-7 **Analytical Date:** 04/24/12 08:38
Lab File ID : D9710.D **Instrument ID:** GCMS-D
Initial Calibration Date(s): 04/16/12 10:26 04/16/12 13:44

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1 Dichlorodifluoromethane	0.64674	0.63207	0.63207	0.010	-2.26940	20.00000	Averaged	
2 Chloromethane	0.85802	0.75114	0.75114	0.100	-12.45711	20.00000	Averaged	
3 Vinyl chloride	50.00000	53.68927	0.80369	0.010	7.37854	20.00000	Linear	
4 Bromomethane	0.54671	0.39067	0.39067	0.010	-28.54141	20.00000	Averaged	*
5 Chloroethane	0.54784	0.59313	0.59313	0.010	8.26702	20.00000	Averaged	
6 Trichlorofluoromethane	1.05471	1.07137	1.07137	0.010	1.57989	20.00000	Averaged	
9 1,1-Dichloroethene	50.00000	47.21527	0.55325	0.100	-5.56947	20.00000	Linear	
10 Carbon Disulfide	50.00000	50.31844	2.15480	0.010	0.63689	20.00000	Linear	
11 Freon-113	50.00000	52.22186	0.40645	0.010	4.44373	20.00000	Linear	
14 Methylene Chloride	50.00000	50.83687	0.59571	0.010	1.67373	20.00000	Linear	
15 Acetone	0.12794	0.13668	0.13668	0.010	6.83424	20.00000	Averaged	
17 trans-1,2-Dichloroethene	50.00000	46.81731	0.53931	0.010	-6.36537	20.00000	Linear	
19 Methyl tert-butyl ether	1.31133	1.31770	1.31770	0.010	0.48629	20.00000	Averaged	
25 1,1-Dichloroethane	1.07091	1.05078	1.05078	0.100	-1.88036	20.00000	Averaged	
29 cis-1,2-Dichloroethene	0.62468	0.60621	0.60621	0.010	-2.95784	20.00000	Averaged	
33 Bromochloromethane	0.23710	0.24946	0.24946	0.010	5.21444	20.00000	Averaged	
34 Chloroform	0.98736	0.97659	0.97659	0.010	-1.09014	20.00000	Averaged	
35 Carbon Tetrachloride	0.39354	0.37735	0.37735	0.010	-4.11334	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.86955	0.83482	0.83482	0.010	-3.99435	20.00000	Averaged	
40 2-Butanone	250	293	0.22495	0.010	17.11760	20.00000	Linear	
41 Benzene	1.42356	1.42172	1.42172	0.010	-0.12989	20.00000	Averaged	
43 Cyclohexane	1.01032	0.99125	0.99125	0.010	-1.88719	20.00000	Averaged	
47 1,2-Dichloroethane	0.39187	0.42484	0.42484	0.010	8.41343	20.00000	Averaged	
48 Trichloroethene	50.00000	45.98055	0.34024	0.010	-8.03890	20.00000	Linear	
51 1,2-Dichloropropane	0.33116	0.33937	0.33937	0.010	2.47851	20.00000	Averaged	
52 Bromodichloromethane	0.41272	0.44044	0.44044	0.010	6.71627	20.00000	Averaged	
53 cis-1,3-dichloropropene	0.49900	0.54425	0.54425	0.010	9.06935	20.00000	Averaged	
54 1,4-Dioxane	1000	512	0.00147	0.001	-48.79204	20.00000	Linear	*
57 Toluene	0.90662	0.93659	0.93659	0.010	3.30655	20.00000	Averaged	
58 4-methyl-2-pentanone	250	292	0.29743	0.010	16.70731	20.00000	Quadratic	
59 Tetrachloroethene	50.00000	44.74335	0.24853	0.010	-10.51331	20.00000	Linear	
60 trans-1,3-Dichloropropene	50.00000	49.92505	0.47529	0.010	-0.14990	20.00000	Linear	
61 1,1,2-Trichloroethane	0.23165	0.25911	0.25911	0.010	11.85504	20.00000	Averaged	
62 Dibromochloromethane	0.28259	0.30046	0.30046	0.010	6.32435	20.00000	Averaged	
64 1,2-Dibromoethane	0.25893	0.28498	0.28498	0.010	10.06235	20.00000	Averaged	
65 2-Hexanone	250	273	0.19125	0.010	9.08127	20.00000	Quadratic	
67 Chlorobenzene	50.00000	50.93086	0.97305	0.300	1.86172	20.00000	Linear	
68 Ethylbenzene	0.54902	0.51593	0.51593	0.010	-6.02656	20.00000	Averaged	
71 m+p-Xylenes	0.68738	0.68283	0.68283	0.010	-0.66197	20.00000	Averaged	
72 o-Xylene	0.60419	0.62521	0.62521	0.010	3.47894	20.00000	Averaged	
73 Styrene	1.02209	1.09786	1.09786	0.010	7.41315	20.00000	Averaged	

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, , **SDG:** SF2129
Lab ID : WG107338-7 **Analytical Date:** 04/24/12 08:38
Lab File ID : D9710.D **Instrument ID:** GCMS-D
Initial Calibration Date(s): 04/16/12 10:26 04/16/12 13:44

Compound	$\overline{RRF}$/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
74 Bromoform	50.00000	50.47839	0.18051	0.100	0.95679	20.00000	Linear	
75 Isopropylbenzene	2.64233	2.48163	2.48163	0.010	-6.08173	20.00000	Averaged	
80 N-Propylbenzene	3.75553	3.61896	3.61896	0.010	-3.63659	20.00000	Averaged	
81 1,1,2,2-Tetrachloroethane	0.68720	0.73960	0.73960	0.300	7.62592	20.00000	Averaged	
82 1,3,5-Trimethylbenzene	2.61935	2.54177	2.54177	0.010	-2.96186	20.00000	Averaged	
85 4-Chlorotoluene	2.29607	2.19623	2.19623	0.010	-4.34822	20.00000	Averaged	
86 tert-Butylbenzene	2.52404	2.40189	2.40189	0.010	-4.83950	20.00000	Averaged	
88 1,2,4-Trimethylbenzene	2.59853	2.50234	2.50234	0.010	-3.70176	20.00000	Averaged	
89 P-Isopropyltoluene	2.56456	2.46326	2.46326	0.010	-3.94995	20.00000	Averaged	
90 1,3-Dichlorobenzene	1.45692	1.36325	1.36325	0.010	-6.42989	20.00000	Averaged	
92 1,4-Dichlorobenzene	1.56361	1.42661	1.42661	0.010	-8.76159	20.00000	Averaged	
93 N-Butylbenzene	2.64705	2.51211	2.51211	0.010	-5.09804	20.00000	Averaged	
94 sec-Butylbenzene	3.38305	3.20613	3.20613	0.010	-5.22950	20.00000	Averaged	
95 1,2-Dichlorobenzene	1.34113	1.29644	1.29644	0.010	-3.33288	20.00000	Averaged	
96 1,2-Dibromo-3-Chloropropane	50.00000	50.49353	0.10842	0.010	0.98706	20.00000	Quadratic	
99 1,2,4-Trichlorobenzene	50.00000	44.86840	0.67816	0.010	-10.26320	20.00000	Quadratic	
101 Naphthalene	50.00000	38.53177	1.11111	0.010	-22.93645	20.00000	Quadratic	*
102 1,2,3-Trichlorobenzene	0.58487	0.55899	0.55899	0.010	-4.42500	20.00000	Averaged	
103 Methyl Acetate	50.00000	53.94695	0.36187	0.010	7.89390	20.00000	Linear	
104 Methylcyclohexane	1.00634	1.03493	1.03493	0.010	2.84106	20.00000	Averaged	
37 Dibromofluoromethane	0.48637	0.47253	0.47253	0.010	-2.84470	20.00000	Averaged	
45 1,2-Dichloroethane-D4	0.57158	0.57026	0.57026	0.010	-0.23123	20.00000	Averaged	
55 Toluene-D8	1.10221	1.18901	1.18901	0.010	7.87588	20.00000	Averaged	
76 P-Bromofluorobenzene	0.43376	0.53172	0.53172	0.010	22.58311	20.00000	Averaged	*

*** = Compound out of QC criteria**

Data File: \\target_server\GG\chem\gcms-d.i\D042412.b\D9710.D
Report Date: 03-May-2012 09:31

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D042412.b\D9710.D
Lab Smp Id: WG107338-7 Client Smp ID: ontinuing Calibrati
Inj Date : 24-APR-2012 08:38 MS Autotune Date: 05-MAR-2010 09:29
Operator : MMM Inst ID: gcms-d.i
Smp Info : WG107338-7,SF2129
Misc Info : WG107338,WG107009-4,SF2129-8
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-d.i\D042412.b\D826A91.m
Meth Date : 03-May-2012 09:27 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 1 Continuing Calibration Sample
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	2.104	2.101	(0.259)	239168	50.0000	48.9	
2	Chloromethane	50	2.340	2.337	(0.289)	284223	50.0000	43.8	
3	Vinyl chloride	62	2.440	2.437	(0.301)	304110	50.0000	53.7	
4	Bromomethane	94	2.840	2.838	(0.350)	147827	50.0000	35.7	
5	Chloroethane	64	3.005	3.002	(0.371)	224436	50.0000	54.1	
6	Trichlorofluoromethane	101	3.191	3.181	(0.393)	405397	50.0000	50.8	
7	Diethyl Ether	59	3.605	3.603	(0.445)	200130	50.0000	57.8	
8	Tertiary-butyl alcohol	59	5.893	5.884	(0.727)	79269	250.000	269	
9	1,1-Dichloroethene	96	3.870	3.867	(0.477)	209346	50.0000	47.2	
10	Carbon Disulfide	76	3.913	3.903	(0.482)	815353	50.0000	50.3	
11	Freon-113	151	3.948	3.939	(0.487)	153796	50.0000	52.2	
12	Iodomethane	142	4.070	4.067	(0.502)	135619	50.0000	34.0	
13	Acrolein	56	4.363	4.361	(0.538)	141186	250.000	304	
14	Methylene Chloride	84	4.756	4.754	(0.587)	225412	50.0000	50.8	
15	Acetone	43	4.835	4.833	(0.596)	258594	250.000	267	
16	Isobutyl Alcohol	43	8.289	8.279	(1.022)	95971	1000.00	1010	
17	trans-1,2-Dichloroethene	96	5.035	5.033	(0.621)	204068	50.0000	46.8	
18	Allyl Chloride	41	4.592	4.582	(0.566)	285594	50.0000	48.5	
19	Methyl tert-butyl ether	73	5.243	5.240	(0.646)	997212	100.000	100	
20	Acetonitrile	39	5.600	5.591	(0.691)	45022	500.000	527	
21	Di-isopropyl ether	45	5.893	5.891	(0.727)	702183	50.0000	51.9	
22	Chloroprene	53	6.008	6.005	(0.741)	344905	50.0000	50.8	
23	Propionitrile	54	7.995	7.993	(0.986)	270626	500.000	624	
24	Methacrylonitrile	41	8.031	8.022	(0.990)	1328817	500.000	669	

Data File: \\target_server\GG\chem\gcms-d.i\D042412.b\D9710.D
Report Date: 03-May-2012 09:31

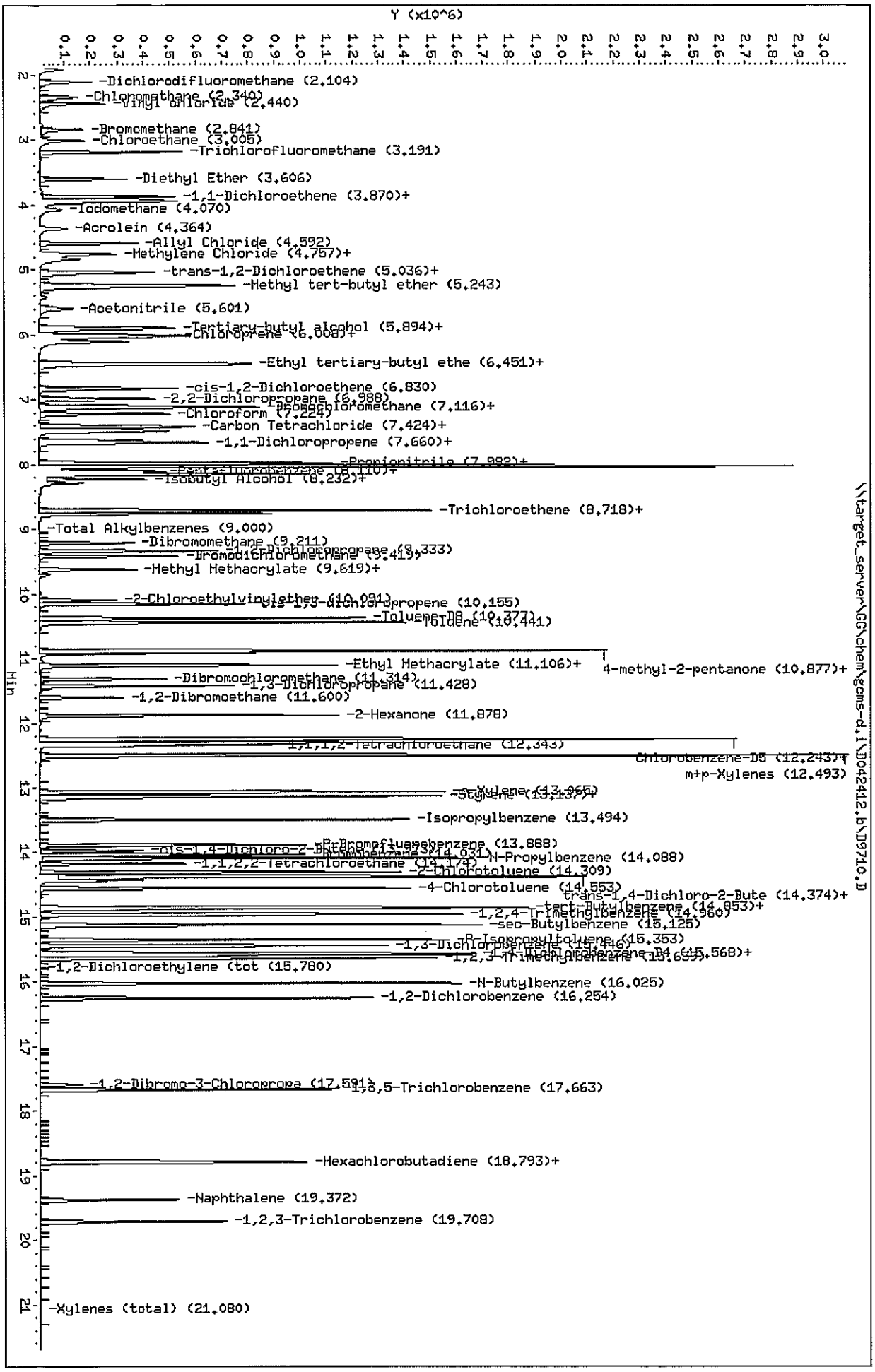
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.036	6.027	(0.744)	397603	50.0000	49.0	
	26 Acrylonitrile	52	6.101	6.098	(0.752)	306243	250.000	298	
	27 Ethyl tertiary-butyl ether	59	6.451	6.441	(0.795)	628841	50.0000	53.9	
	28 Vinyl Acetate	43	6.444	6.441	(0.736)	485327	50.0000	52.9	
	29 cis-1,2-Dichloroethene	96	6.830	6.828	(0.842)	229382	50.0000	48.5	
M	30 1,2-Dichloroethylene (total)	96				433450	50.0000	(a)	
	31 Methyl Methacrylate	41	9.618	9.609	(1.098)	164334	50.0000	52.8	
	32 2,2-Dichloropropane	77	6.987	6.978	(0.862)	289431	50.0000	49.2	
	33 Bromochloromethane	128	7.102	7.092	(0.876)	94395	50.0000	52.6	
	34 Chloroform	83	7.223	7.214	(0.891)	369533	50.0000	49.4	
	35 Carbon Tetrachloride	117	7.402	7.400	(0.845)	260722	50.0000	47.9	
	36 Tetrahydrofuran	42	7.423	7.421	(0.915)	281278	250.000	280	
$	37 Dibromofluoromethane	113	7.466	7.457	(0.921)	178802	50.0000	48.6	
	38 1,1,1-Trichloroethane	97	7.495	7.485	(0.924)	315888	50.0000	48.0	
	39 1,1-Dichloropropene	75	7.659	7.657	(0.874)	309947	50.0000	48.9	
	40 2-Butanone	43	7.631	7.628	(0.941)	425594	250.000	293	
	41 Benzene	78	7.981	7.972	(0.911)	982306	50.0000	49.9	
*	42 Pentafluorobenzene	168	8.110	8.100	(1.000)	378390	50.0000		
	43 Cyclohexane	56	7.123	7.114	(0.878)	375080	50.0000	49.0	
	44 Ethyl Methacrylate	69	11.113	11.103	(1.269)	271439	50.0000	52.3	
$	45 1,2-Dichloroethane-D4	65	8.146	8.135	(1.004)	215779	50.0000	49.9	
	46 Tertiary-amyl methyl ether	73	8.153	8.150	(1.005)	574122	50.0000	56.0	
	47 1,2-Dichloroethane	62	8.231	8.222	(0.940)	293532	50.0000	54.2	
	48 Trichloroethene	95	8.718	8.708	(0.995)	235085	50.0000	46.0	
*	49 1,4-Difluorobenzene	114	8.760	8.751	(1.000)	690930	50.0000		
	50 Dibromomethane	93	9.211	9.209	(1.051)	127215	50.0000	53.4	
	51 1,2-Dichloropropane	63	9.340	9.330	(1.066)	234478	50.0000	51.2	
	52 Bromodichloromethane	83	9.418	9.409	(1.075)	304315	50.0000	53.4	
	53 cis-1,3-dichloropropene	75	10.155	10.152	(1.159)	376040	50.0000	54.5	
	54 1,4-Dioxane	88	9.654	9.652	(1.102)	20250	1000.00	512	
$	55 Toluene-D8	98	10.376	10.374	(1.184)	821526	50.0000	53.9	
	56 2-Chloroethylvinylether	63	10.090	10.088	(1.152)	105105	50.0000	41.0	
	57 Toluene	92	10.441	10.431	(1.192)	647121	50.0000	51.6	
	58 4-methyl-2-pentanone	43	10.870	10.867	(1.241)	1027525	250.000	292	
	59 Tetrachloroethene	164	10.884	10.882	(0.889)	180626	50.0000	44.7	
	60 trans-1,3-Dichloropropene	75	10.913	10.903	(1.246)	328392	50.0000	49.9	
	61 1,1,2-Trichloroethane	83	11.099	11.089	(1.267)	179028	50.0000	55.9	
	62 Dibromochloromethane	129	11.313	11.304	(0.924)	218364	50.0000	53.2	
	63 1,3-Dichloropropane	76	11.427	11.418	(0.933)	379657	50.0000	51.8	
	64 1,2-Dibromoethane	107	11.599	11.590	(1.324)	196903	50.0000	55.0	
	65 2-Hexanone	43	11.878	11.876	(0.970)	694988	250.000	273	
*	66 Chlorobenzene-D5	117	12.243	12.233	(1.000)	726767	50.0000		
	67 Chlorobenzene	112	12.264	12.254	(1.002)	707183	50.0000	50.9	
	152 1-Chlorohexane	91	12.243	12.233	(1.000)	374000	50.0000	48.0	
	68 Ethylbenzene	106	12.307	12.297	(1.005)	374962	50.0000	47.0	
	69 1,1,1,2-Tetrachloroethane	131	12.343	12.340	(1.008)	224651	50.0000	50.7	
M	70 Xylenes (total)	106				1446903	150.000	(a)	
	71 m+p-Xylenes	106	12.500	12.490	(1.021)	992523	100.000	99.3	
	72 o-Xylene	106	13.065	13.055	(1.067)	454380	50.0000	51.7	
	73 Styrene	104	13.136	13.127	(1.073)	797889	50.0000	53.7	
	74 Bromoform	173	13.158	13.148	(1.075)	131187	50.0000	50.5	
	75 Isopropylbenzene	105	13.494	13.491	(0.867)	999421	50.0000	47.0	
$	76 P-Bromofluorobenzene	95	13.887	13.878	(1.585)	367383	50.0000	61.3	
	77 cis-1,4-Dichloro-2-Butene	53	13.973	13.963	(0.898)	82827	50.0000	55.9	

Data File: \\target_server\GG\chem\gcms-d.i\D042412.b\D9710.D
Report Date: 03-May-2012 09:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.431	14.428	(0.927)	84833	50.0000	54.5	
79	Bromobenzene	156	14.037	14.028	(0.902)	273290	50.0000	47.5	
80	N-Propylbenzene	91	14.087	14.078	(0.905)	1457453	50.0000	48.2	
81	1,1,2,2-Tetrachloroethane	83	14.166	14.164	(0.910)	297858	50.0000	53.8	
82	1,3,5-Trimethylbenzene	105	14.380	14.371	(0.924)	1023638	50.0000	48.5	
83	2-Chlorotoluene	91	14.309	14.299	(0.920)	860482	50.0000	47.5	
84	1,2,3-Trichloropropane	75	14.366	14.357	(0.923)	243787	50.0000	53.6	
85	4-Chlorotoluene	91	14.552	14.543	(0.935)	884482	50.0000	47.8	
86	tert-Butylbenzene	119	14.852	14.843	(0.955)	967307	50.0000	47.6	
87	Pentachloroethane	117	14.867	14.864	(0.955)	207328	50.0000	49.4	
88	1,2,4-Trimethylbenzene	105	14.960	14.950	(0.961)	1007759	50.0000	48.1	
89	P-Isopropyltoluene	119	15.353	15.343	(0.987)	992021	50.0000	48.0	
90	1,3-Dichlorobenzene	146	15.446	15.436	(0.993)	549016	50.0000	46.8	
* 91	1,4-Dichlorobenzene-D4	152	15.560	15.558	(1.000)	402727	50.0000		
92	1,4-Dichlorobenzene	146	15.589	15.579	(1.002)	574535	50.0000	45.6	
93	N-Butylbenzene	91	16.025	16.015	(1.030)	1011693	50.0000	47.4	
94	sec-Butylbenzene	105	15.124	15.115	(0.972)	1291195	50.0000	47.4	
95	1,2-Dichlorobenzene	146	16.254	16.251	(1.045)	522110	50.0000	48.3	
96	1,2-Dibromo-3-Chloropropane	75	17.591	17.588	(1.130)	43663	50.0000	50.5	
97	1,3,5-Trichlorobenzene	180	17.670	17.660	(1.136)	369356	50.0000	46.2	
98	Hexachlorobutadiene	225	18.771	18.768	(1.206)	123497	50.0000	44.2	
99	1,2,4-Trichlorobenzene	180	18.792	18.790	(1.208)	273114	50.0000	44.9	
100	1,2,3-Trimethylbenzene	105	15.639	15.629	(1.005)	971669	50.0000	49.0	
101	Naphthalene	128	19.378	19.369	(1.245)	447474	50.0000	38.5	
102	1,2,3-Trichlorobenzene	180	19.714	19.705	(1.267)	225119	50.0000	47.8	
103	Methyl Acetate	43	5.071	5.069	(0.625)	136928	50.0000	53.9	
104	Methylcyclohexane	83	8.710	8.708	(1.074)	391606	50.0000	51.4	
M 153	Total Alkylbenzenes	100				7751066	50.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Y (x10^6)
Min
-Dichlorodifluoromethane (2.104)
-Chloromethane (2.340)
-Vinyl chloride (2.440)
-Bromomethane (2.841)
-Chloroethane (3.005)
-Trichlorofluoromethane (3.191)
-Diethyl Ether (3.606)
-1,1-Dichloroethene (3.870)+
-Iodomethane (4.070)
-Acrolein (4.364)
-Allyl Chloride (4.592)
-Methylene Chloride (4.757)+
-trans-1,2-Dichloroethene (5.036)+
-Methyl tert-butyl ether (5.243)
-Acetonitrile (5.601)
-Tertiary-butyl alcohol (5.894)+
-Chloroprene (6.008)+
-Ethyl tertiary-butyl ethe (6.451)+
-cis-1,2-Dichloroethene (6.830)
-2,2-Dichloropropane (6.988)
-Bromochloromethane (7.116)+
-Chloroform (7.224)
-Carbon Tetrachloride (7.424)+
-1,1-Dichloropropene (7.660)+
-Propionitrile (7.992)+
-Isobutyl Alcohol (8.232)+
-Trichloroethene (8.718)+
-Total Alkylbenzenes (9.000)
-Dibromomethane (9.211)
-Bromodichloromethane (9.419)
-Methyl Methacrylate (9.619)+
-2-Chloroethylvinylether (10.091)
-Toluene-D8 (10.377)
Toluene (10.441)
-Ethyl Methacrylate (11.106)+
4-methyl-2-pentanone (10.877)+
-Dibromochloromethane (11.314)
-1,3-Dichloropropane (11.428)
-1,2-Dibromoethane (11.600)
-2-Hexanone (11.878)
1,1,1,2-Tetrachloroethane (12.343)
Chlorobenzene-D5 (12.243)+
m+p-Xylenes (12.493)
-Isopropylbenzene (13.494)
-Bromofluorobenzene (13.888)
-N-Propylbenzene (14.088)
-1,1,2,2-Tetrachloroethane (14.174)
-2-Chlorotoluene (14.309)
-4-Chlorotoluene (14.553)
trans-1,4-Dichloro-2-Bute (14.374)+
-tert-Butylbenzene (14.853)+
-1,2,4-Trimethylbenzene (14.960)
-sec-Butylbenzene (15.125)
-1,3-Dichlorobenzene (15.446)
-1,2,3-Trimethylbenzene (15.699)
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (16.025)
-1,2-Dichlorobenzene (16.254)
-1,2-Dibromo-3-Chloroprop (17.591)
1,3,5-Trichlorobenzene (17.663)
-Hexachlorobutadiene (18.793)+
-Naphthalene (19.372)
-1,2,3-Trichlorobenzene (19.708)
-Xylenes (total) (21.080)
Data File: \\target_server\GC\chem\goms-d.i\D042412.b\D9710.D
Date : 24-APR-2012 08:38
Client ID: ontinuing Calibrati
Sample Info: WG107338-7,SF2129
Purge Volume: 5.0
Column phase: RTX-VMS
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Instrument: goms-d.i
Operator: HHH
Column diameter: 0.18

Data File: \\target_server\GC\chem\gcms-d.i\D041612.b\DB880.D

Date : 16-APR-2012 09:58

Client ID:

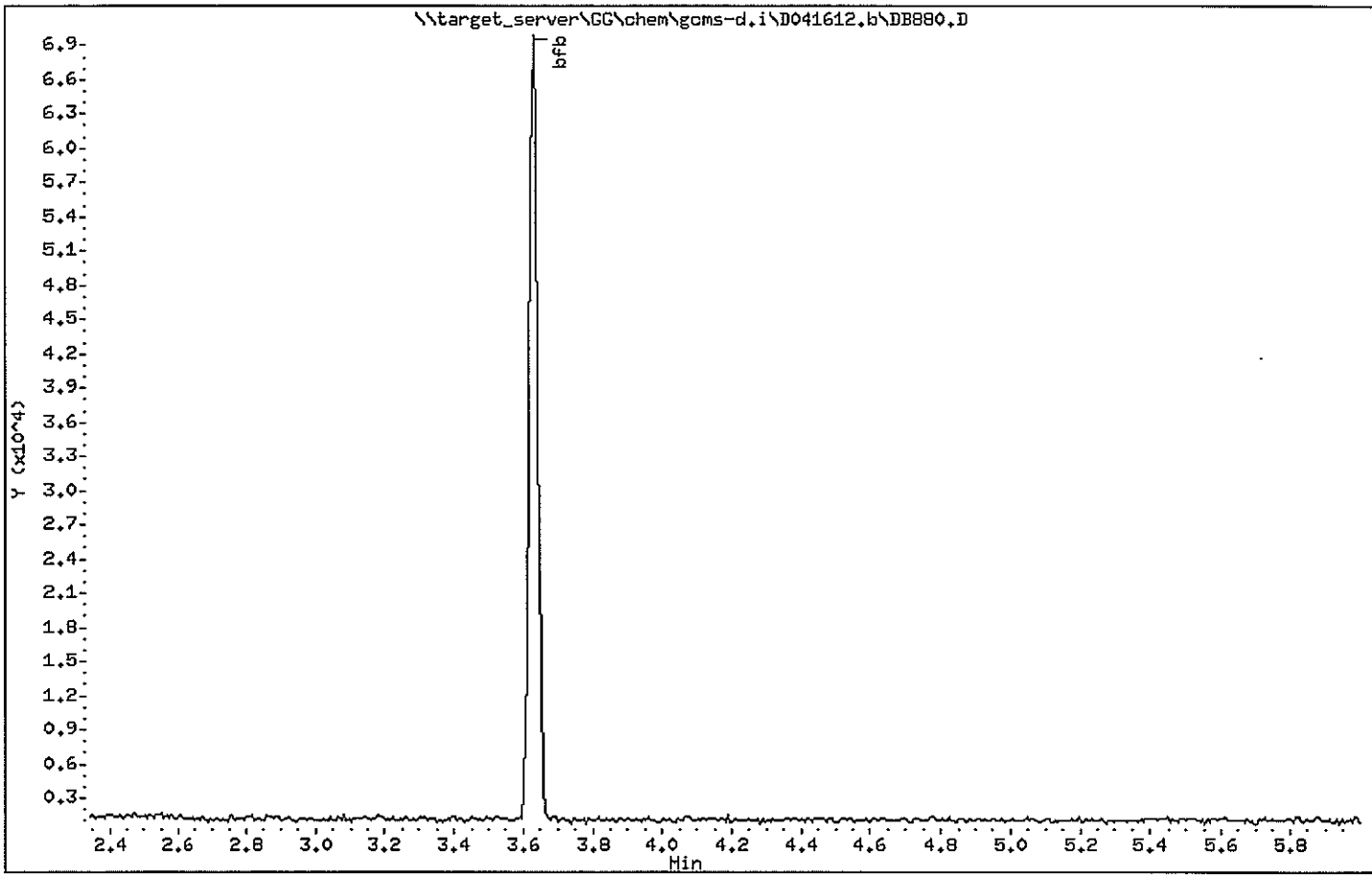
Instrument: gcms-d.i

Sample Info: WG107009-11,SF2129

Operator: DCA

Column phase: RTX-VMS

Column diameter: 0.18



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Date : 16-APR-2012 09:58

Client ID:

Instrument: gcms-d.i

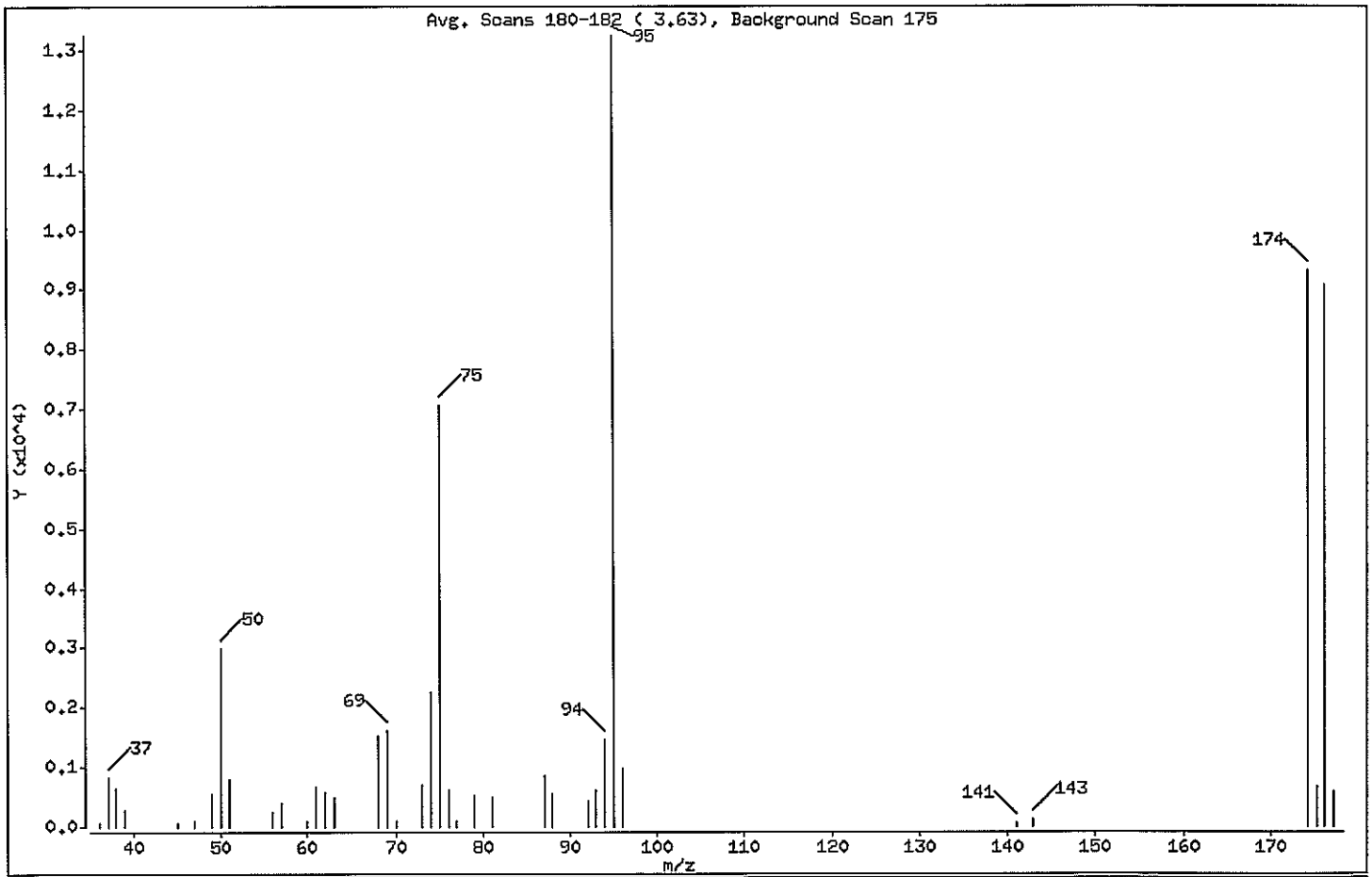
Sample Info: WG107009-11,SF2129

Operator: DCA

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	22.45
75	30.00 - 60.00% of mass 95	53.40
96	5.00 - 9.00% of mass 95	7.47
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	70.26
175	5.00 - 9.00% of mass 174	4.97 (7.07)
176	95.00 - 101.00% of mass 174	68.42 (97.38)
177	5.00 - 9.00% of mass 176	4.32 (6.31)

Data File: \\target_server\GC\chem\gcms-d.i\D041612.b\DB880.D

Date : 16-APR-2012 09:58

Client ID:

Instrument: gcms-d.i

Sample Info: WG107009-11,SF2129

Operator: DCA

Column phase: RTX-VMS

Column diameter: 0.18

Data File: DB880.D

Spectrum: Avg. Scans 180-182 (3.63), Background Scan 175

Location of Maximum: 95.00

Number of points: 38

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	70	57.00	386	75.00	7074	95.00	13247
37.00	831	60.00	87	76.00	597	96.00	989
38.00	639	61.00	666	77.00	90	141.00	68
39.00	263	62.00	575	79.00	520	143.00	137
45.00	67	63.00	496	81.00	500	174.00	9308
47.00	102	68.00	1534	87.00	854	175.00	658
49.00	535	69.00	1607	88.00	552	176.00	9064
50.00	2974	70.00	79	92.00	417	177.00	572
51.00	790	73.00	686	93.00	601		
56.00	235	74.00	2244	94.00	1468		

Data File: \\target_server\GC\chem\gcms-d.i\D042312.b\DB885.D

Date : 23-APR-2012 08:57

Client ID:

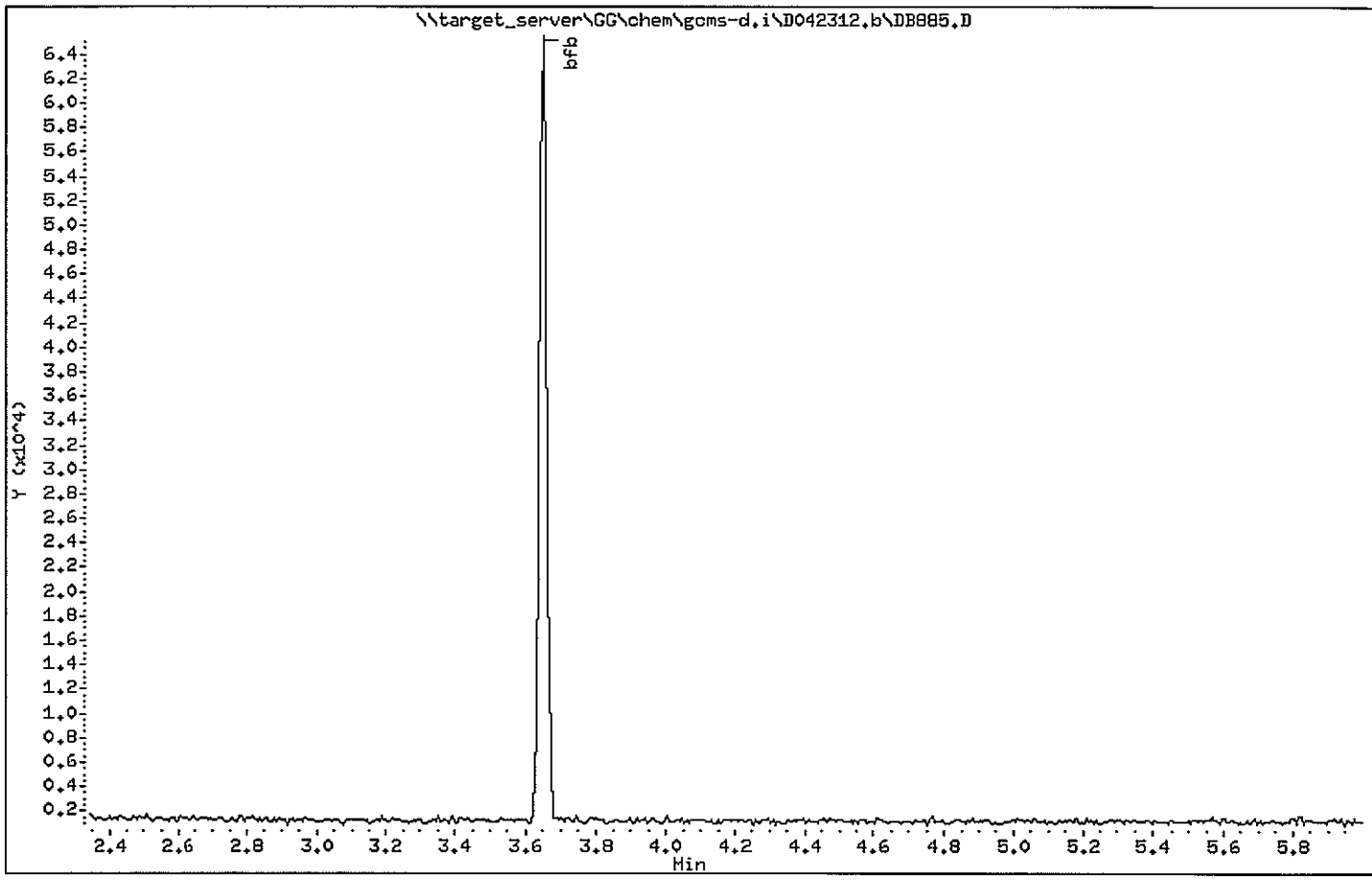
Instrument: gcms-d.i

Sample Info: WG107276-3,SF2129

Operator: MHM

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\GC\chem\gcms-d.i\D042312.b\DB885.D

Date : 23-APR-2012 08:57

Client ID:

Instrument: gcms-d.i

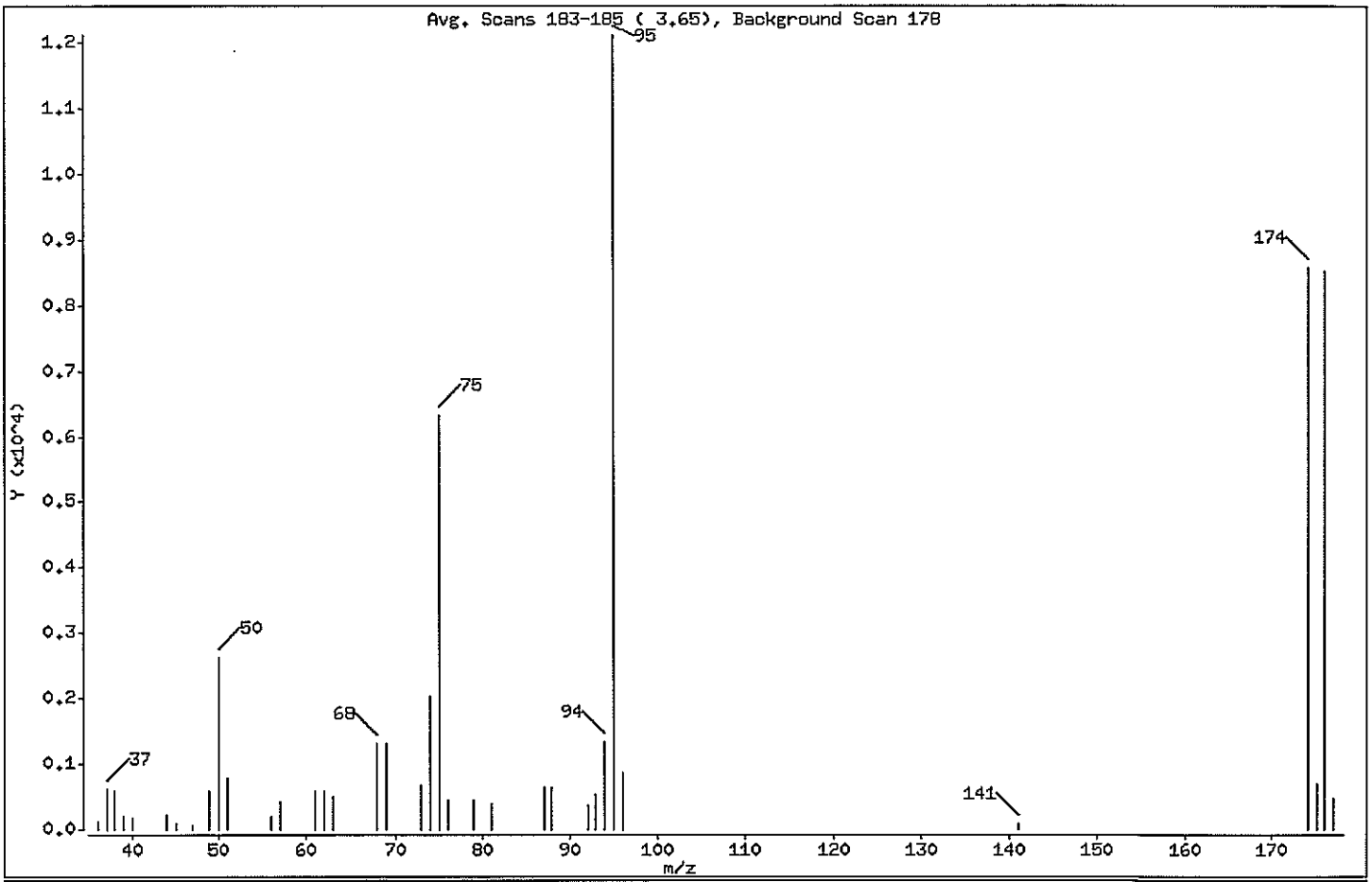
Sample Info: WG107276-3,SF2129

Operator: MHH

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	21.53
75	30.00 - 60.00% of mass 95	52.26
96	5.00 - 9.00% of mass 95	7.14
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	70.82
175	5.00 - 9.00% of mass 174	5.69 (8.03)
176	95.00 - 101.00% of mass 174	70.36 (99.35)
177	5.00 - 9.00% of mass 176	3.91 (5.56)

Data File: \\target_server\GC\chem\gcms-d.i\D042312.b\DB885.D

Date : 23-APR-2012 08:57

Client ID:

Instrument: gcms-d.i

Sample Info: WG107276-3,SF2129

Operator: MMM

Column phase: RTX-VMS

Column diameter: 0.18

Data File: DB885.D

Spectrum: Avg. Scans 183-185 (3.65), Background Scan 178

Location of Maximum: 95.00

Number of points: 36

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	117	51.00	793	75.00	6332	96.00	865
37.00	606	56.00	186	76.00	446	141.00	79
38.00	584	57.00	422	79.00	443	174.00	8581
39.00	199	61.00	579	81.00	390	175.00	689
40.00	159	62.00	573	87.00	649	176.00	8525
44.00	226	63.00	498	88.00	646	177.00	474
45.00	70	68.00	1319	92.00	353		
47.00	67	69.00	1303	93.00	524		
49.00	573	73.00	666	94.00	1325		
50.00	2608	74.00	2041	95.00	12116		

Data File: \\target_server\GC\chem\gcms-d.i\D042412.b\DB886.D

Date : 24-APR-2012 08:14

Client ID:

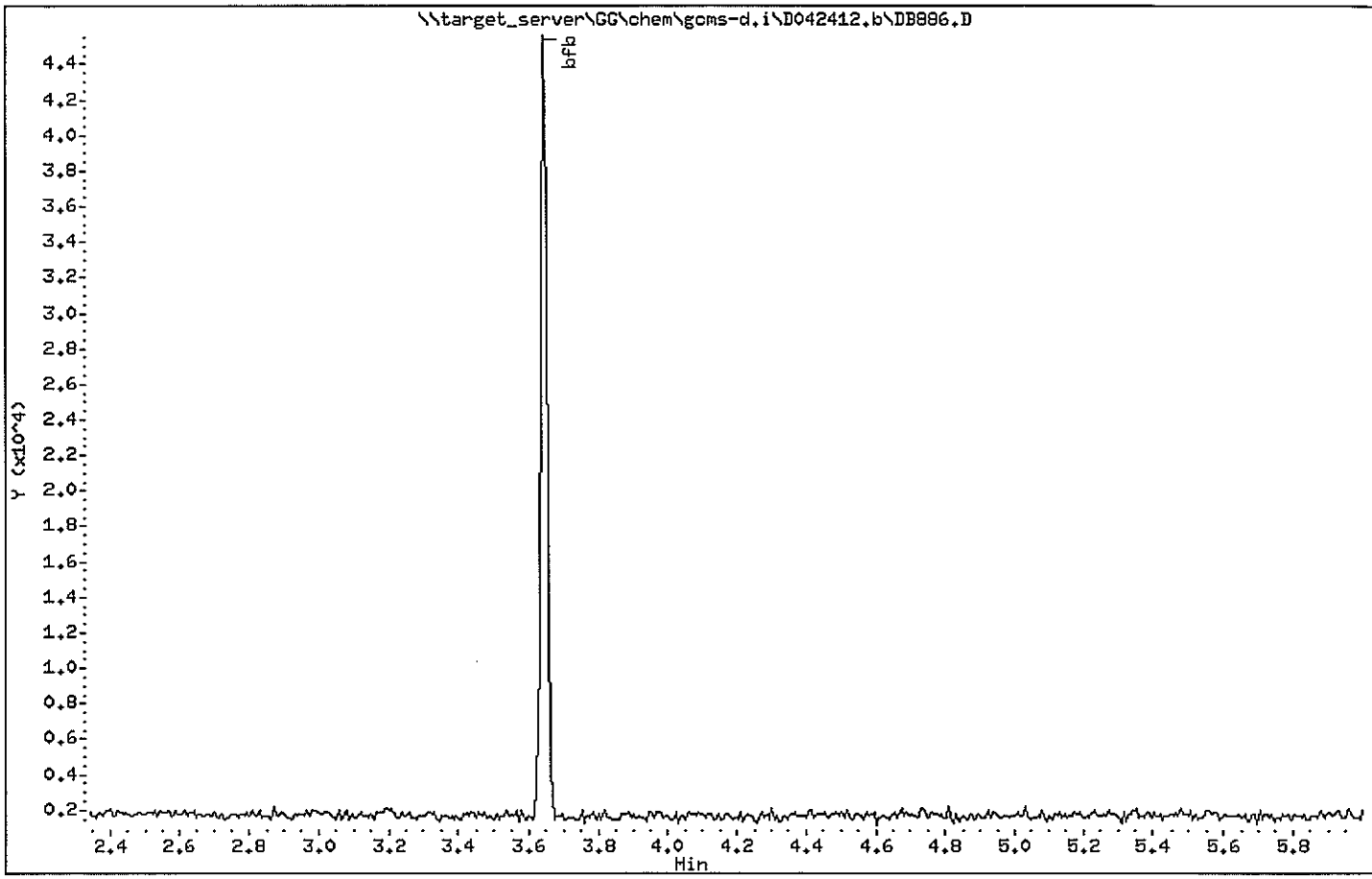
Instrument: gcms-d.i

Sample Info: WG107338-6,SF2129

Operator: MHM

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\GC\chem\gcms-d.i\D042412.b\DB886.D

Date : 24-APR-2012 08:14

Client ID:

Instrument: gcms-d.i

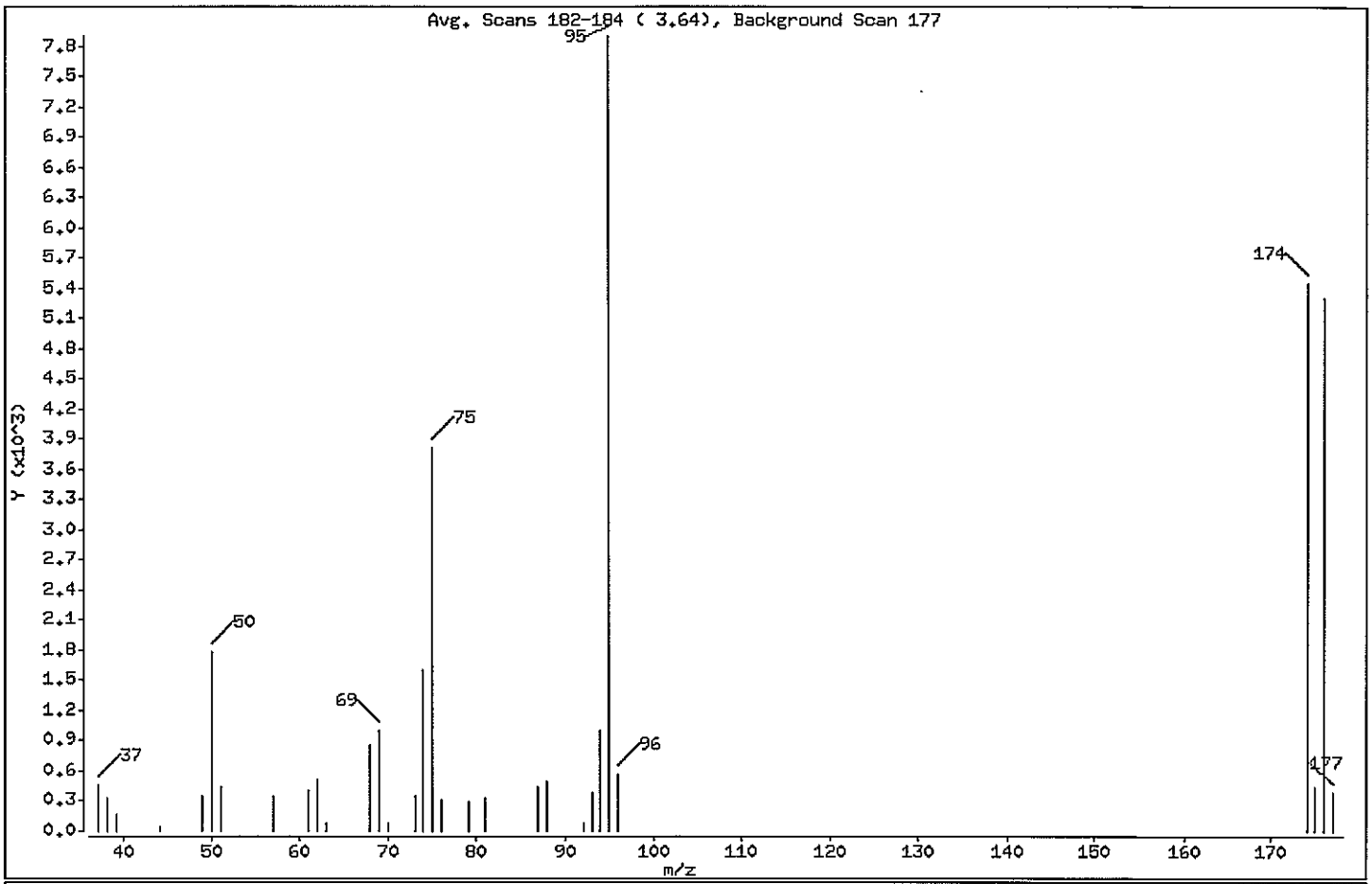
Sample Info: WG107338-6,SF2129

Operator: MHM

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	22.62
75	30.00 - 60.00% of mass 95	48.36
96	5.00 - 9.00% of mass 95	7.18
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	69.00
175	5.00 - 9.00% of mass 174	5.44 (7.88)
176	95.00 - 101.00% of mass 174	67.15 (97.32)
177	5.00 - 9.00% of mass 176	4.76 (7.08)

Data File: \\target_server\GC\chem\gcms-d.i\D042412.b\DB886.D

Date : 24-APR-2012 08:14

Client ID:

Instrument: gcms-d.i

Sample Info: WG107338-6,SF2129

Operator: MHM

Column phase: RTX-VMS

Column diameter: 0.18

Data File: DB886.D

Spectrum: Avg. Scans 182-184 (3.64), Background Scan 177

Location of Maximum: 95.00

Number of points: 31

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	454	61.00	403	75.00	3823	94.00	997
38.00	331	62.00	505	76.00	312	95.00	7906
39.00	161	63.00	81	79.00	297	96.00	568
44.00	39	68.00	849	81.00	328	174.00	5455
49.00	337	69.00	998	87.00	433	175.00	430
50.00	1788	70.00	69	88.00	499	176.00	5309
51.00	437	73.00	350	92.00	73	177.00	376
57.00	346	74.00	1596	93.00	388		

Raw QC Data Section

Report of Analytical Results

Client:
Lab ID: WG107276-2
Client ID: Method Blank Sample
Project:
SDG: SF2129
Lab File ID: D9680.D

Sample Date:
Received Date:
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

Report of Analytical Results

Client:
Lab ID: WG107276-2
Client ID: Method Blank Sample
Project:
SDG: SF2129
Lab File ID: D9680.D

Sample Date:
Received Date:
Extract Date: 23-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		105.	%					
Toluene-d8		110.	%					
P-Bromofluorobenzene		114.	%					
Dibromofluoromethane		102.	%					

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Data File: \\target_server\GG\chem\gcms-d.i\D042312.b\D9680.D
Report Date: 01-May-2012 15:51

Katahdin Analytical Services

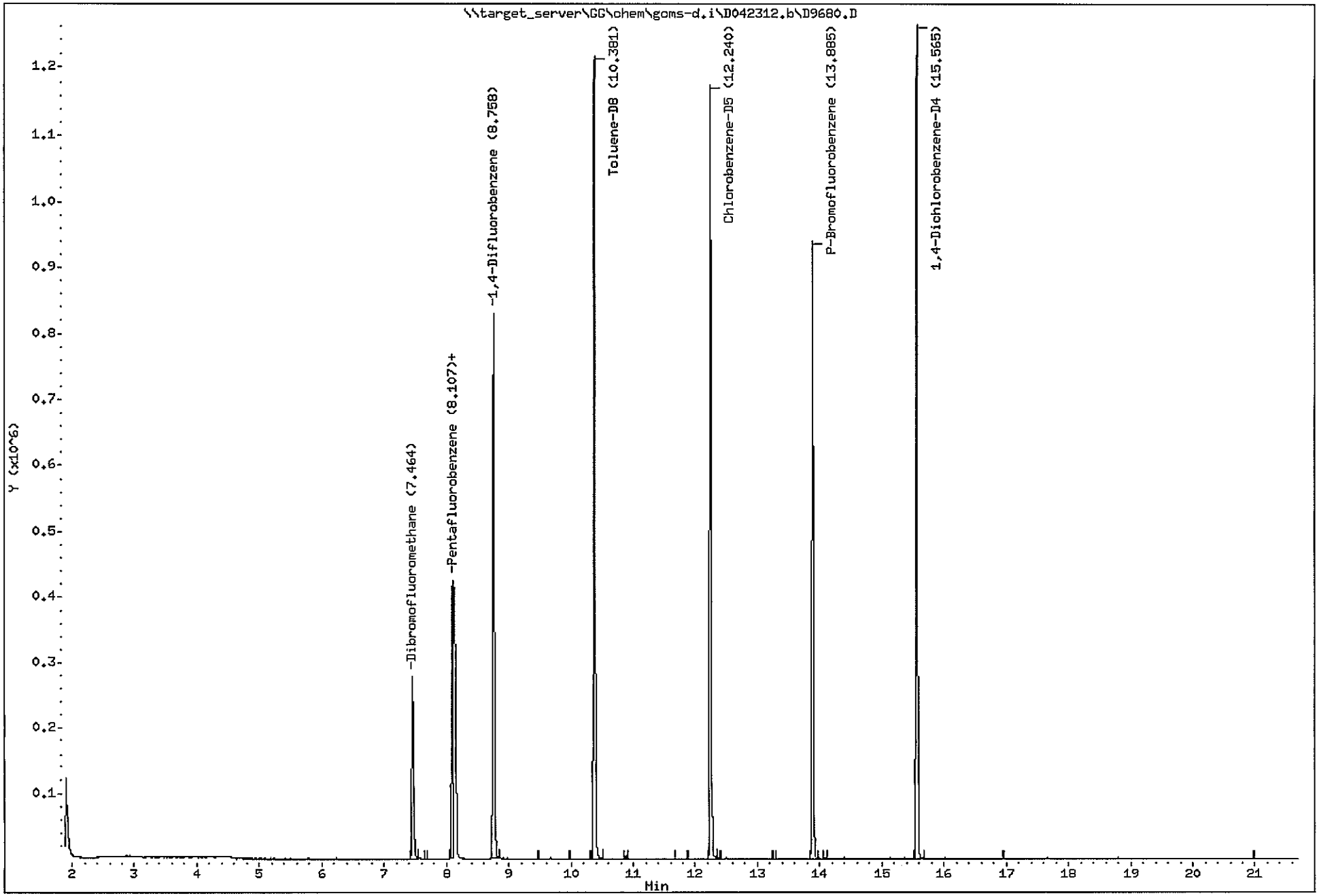
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Lab Smp Id: WG107276-2 Client Smp ID: WG107276-Blank
Inj Date : 23-APR-2012 11:39 MS Autotune Date: 05-MAR-2010 09:29
Operator : MMM Inst ID: gcms-d.i
Smp Info : WG107276-2,SF2129
Misc Info : WG107276,WG107009-4,SF2129-2
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-d.i\D042312.b\D826A91.m
Meth Date : 01-May-2012 15:50 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ENEGFS.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
$	37 Dibromofluoromethane	113	7.463	7.457	(0.921)	167887	50.7594	50.8	
$	45 1,2-Dichloroethane-D4	65	8.143	8.135	(1.004)	204281	52.5556	52.6	
$	55 Toluene-D8	98	10.381	10.374	(1.185)	788528	54.9626	55.0	
$	76 P-Bromofluorobenzene	95	13.884	13.878	(1.585)	323230	57.2493	57.2	
*	42 Pentafluorobenzene	168	8.107	8.100	(1.000)	340020	50.0000		
*	49 1,4-Difluorobenzene	114	8.757	8.751	(1.000)	650814	50.0000		
*	66 Chlorobenzene-D5	117	12.247	12.233	(1.000)	622411	50.0000		
*	91 1,4-Dichlorobenzene-D4	152	15.564	15.558	(1.000)	336023	50.0000		

Data File: \\target_server\GC\chem\goms-d.i\D042312.b\D9680.D
Date : 23-APR-2012 11:39
Client ID: WG107276-Blank
Instrument: goms-d.i
Sample Info: WG107276-2,SF2129



Katahdin Analytical Services 1000197

Report of Analytical Results

Client:
Lab ID: WG107338-2
Client ID: Method Blank Sample
Project:
SDG: SF2129
Lab File ID: D9715.D

Sample Date:
Received Date:
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5

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Report of Analytical Results

Client:
Lab ID: WG107338-2
Client ID: Method Blank Sample
Project:
SDG: SF2129
Lab File ID: D9715.D

Sample Date:
Received Date:
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		105.	%					
Toluene-d8		107.	%					
P-Bromofluorobenzene		115.	%					
Dibromofluoromethane		102.	%					

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Data File: \\target_server\GG\chem\gcms-d.i\D042412.b\D9715.D
Report Date: 03-May-2012 09:31

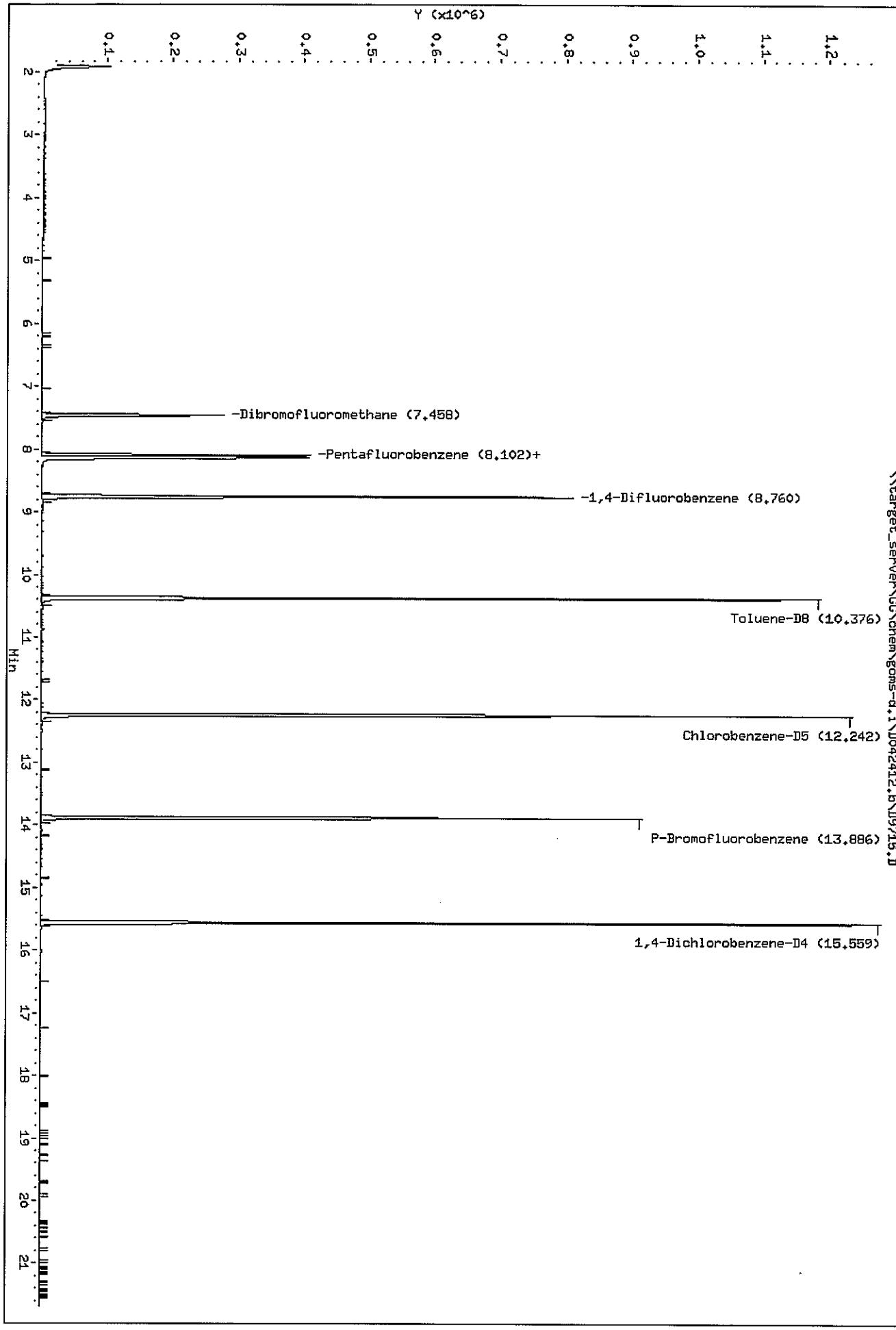
Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D042412.b\D9715.D
Lab Smp Id: WG107338-2 Client Smp ID: WG107338-Blank
Inj Date : 24-APR-2012 11:43 MS Autotune Date: 05-MAR-2010 09:29
Operator : MMM Inst ID: gcms-d.i
Smp Info : WG107338-2,SF2129
Misc Info : WG107338,WG107009-4,SF2129-8
Comment : SW846 5030,AQ
Method : \\target_server\GG\chem\gcms-d.i\D042412.b\D826A91.m
Meth Date : 03-May-2012 09:27 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ENEGFS.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
$ 37 Dibromofluoromethane	113	7.465	7.457	(0.921)	164526	50.7690	50.8	
$ 45 1,2-Dichloroethane-D4	65	8.137	8.135	(1.004)	199381	52.3527	52.4	
$ 55 Toluene-D8	98	10.375	10.374	(1.184)	759224	53.7189	53.7	
$ 76 P-Bromofluorobenzene	95	13.886	13.878	(1.585)	318754	57.3088	57.3	
* 42 Pentafluorobenzene	168	8.108	8.100	(1.000)	333150	50.0000		
* 49 1,4-Difluorobenzene	114	8.759	8.751	(1.000)	641136	50.0000		
* 66 Chlorobenzene-D5	117	12.241	12.233	(1.000)	627855	50.0000		
* 91 1,4-Dichlorobenzene-D4	152	15.559	15.558	(1.000)	336101	50.0000		


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
-Dibromofluoromethane (7.458)
-Pentafluorobenzene (8.102)+
-1,4-Difluorobenzene (8.760)
Toluene-D8 (10.376)
Chlorobenzene-D5 (12.242)
P-Bromofluorobenzene (13.886)
1,4-Dichlorobenzene-D4 (15.559)
\\target_server\GC\chem\goms-d.i\D042412.b\D9715.D
Data File: \\target_server\GC\chem\goms-d.i\D042412.b\D9715.D
Date : 24-APR-2012 11:43
Client ID: WG107338-Blank
Sample Info: WG107338-2,SF2129
Instrument: goms-d.i

LCS Recovery Report

Client:
Lab ID: WG107276-1
Client ID: LCS
Project:
SDG: SF2129

Sample Date:
Received Date: 23-APR-12
Extract Date:
Extracted By: MMM
Extraction Method: SW846 8260B
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	104.	50.0	52.2	ug/L	29-164
Chloromethane	98.2	50.0	49.1	ug/L	59-123
Vinyl Chloride	111.	50.0	55.3	ug/L	64-131
Bromomethane	104.	50.0	51.8	ug/L	57-135
Chloroethane	101.	50.0	50.6	ug/L	53-157
Trichlorofluoromethane	92.2	50.0	46.1	ug/L	70-149
1,1-Dichloroethene	98.4	50.0	49.2	ug/L	88-127
Freon-113	104.	50.0	51.9	ug/L	73-126
Acetone	80.8	50.0	40.4	ug/L	62-172
Carbon Disulfide	86.0	50.0	43.0	ug/L	71-129
Methyl Acetate	119.	50.0	59.4	ug/L	70-132
Methylene Chloride	97.2	50.0	48.6	ug/L	72-129
trans-1,2-Dichloroethene	85.6	50.0	42.8	ug/L	78-125
Methyl tert-butyl Ether	105.	100.	105.	ug/L	81-125
1,1-Dichloroethane	92.2	50.0	46.1	ug/L	76-130
cis-1,2-Dichloroethene	87.8	50.0	43.9	ug/L	85-123
2-Butanone	116.	50.0	57.8	ug/L	71-132
Chloroform	89.8	50.0	44.9	ug/L	78-128
1,1,1-Trichloroethane	88.8	50.0	44.4	ug/L	77-129
Cyclohexane	91.4	50.0	45.7	ug/L	71-133
Carbon Tetrachloride	89.2	50.0	44.6	ug/L	87-126
Benzene	90.0	50.0	45.0	ug/L	86-116
1,2-Dichloroethane	95.6	50.0	47.8	ug/L	81-125
Trichloroethene	84.2	50.0	42.1	ug/L	79-121
Methylcyclohexane	105.	50.0	52.4	ug/L	73-125
1,2-Dichloropropane	94.2	50.0	47.1	ug/L	84-118
Bromodichloromethane	96.6	50.0	48.3	ug/L	85-122
cis-1,3-Dichloropropene	100.	50.0	50.0	ug/L	83-119
4-Methyl-2-Pentanone	118.	50.0	59.1	ug/L	83-122
Toluene	91.0	50.0	45.5	ug/L	84-118
trans-1,3-Dichloropropene	97.6	50.0	48.8	ug/L	85-135
1,1,2-Trichloroethane	98.6	50.0	49.3	ug/L	84-115
Tetrachloroethene	80.6	50.0	40.3	ug/L	47-155
2-Hexanone	111.	50.0	55.6	ug/L	80-124
Dibromochloromethane	98.2	50.0	49.1	ug/L	85-119

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

LCS Recovery Report

Client:
Lab ID: WG107276-1
Client ID: LCS
Project:
SDG: SF2129

Sample Date:
Received Date: 23-APR-12
Extract Date:
Extracted By: MMM
Extraction Method: SW846 8260B
Lab Prep Batch: WG107276

Analysis Date: 23-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,2-Dibromoethane	98.2	50.0	49.1	ug/L	84-116
Chlorobenzene	93.0	50.0	46.5	ug/L	89-113
Ethylbenzene	* 85.2	50.0	42.6	ug/L	88-113
M+P-Xylenes	88.3	100.	88.3	ug/L	88-116
o-Xylene	93.8	50.0	46.9	ug/L	90-116
Styrene	96.0	50.0	48.0	ug/L	88-117
Bromoform	91.2	50.0	45.6	ug/L	86-117
Isopropylbenzene	99.0	50.0	49.5	ug/L	96-136
1,1,2,2-Tetrachloroethane	94.2	50.0	47.1	ug/L	79-121
1,3-Dichlorobenzene	* 83.6	50.0	41.8	ug/L	86-110
1,4-Dichlorobenzene	* 82.8	50.0	41.4	ug/L	86-111
1,2-Dichlorobenzene	86.8	50.0	43.4	ug/L	86-112
1,2-Dibromo-3-Chloropropane	87.0	50.0	43.5	ug/L	67-124
1,2,4-Trichlorobenzene	86.2	50.0	43.1	ug/L	76-126
bromochloromethane	94.2	50.0	47.1	ug/L	85-117
1,4-Dioxane	76.7	1000	767.	ug/L	10-149
1,2,3-trichlorobenzene	90.0	50.0	45.0	ug/L	70-122
1,3,5-Trimethylbenzene	83.8	50.0	41.9	ug/L	80-123
1,2,4-Trimethylbenzene	85.4	50.0	42.7	ug/L	83-118
4-Chlorotoluene	88.0	50.0	44.0	ug/L	81-122
n-Butylbenzene	84.6	50.0	42.3	ug/L	84-121
n-Propylbenzene	87.8	50.0	43.9	ug/L	83-121
Naphthalene	82.6	50.0	41.3	ug/L	62-126
p-Isopropyltoluene	91.2	50.0	45.6	ug/L	88-121
sec-Butylbenzene	84.4	50.0	42.2	ug/L	82-122
tert-Butylbenzene	88.0	50.0	44.0	ug/L	84-121
1,2-Dichloroethane-d4	99.2				67-135
Toluene-d8	109.				65-128
P-Bromofluorobenzene	118.				56-133
Dibromofluoromethane	97.7				68-128

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Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\GG\chem\gcms-d.i\D042312.b\D9677.D
Report Date: 01-May-2012 15:51

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D042312.b\D9677.D
Lab Smp Id: WG107276-1 Client Smp ID: WG107276-LCS
Inj Date : 23-APR-2012 09:59 MS Autotune Date: 05-MAR-2010 09:29
Operator : MMM Inst ID: gcms-d.i
Smp Info : WG107276-1,SF2129
Misc Info : WG107276,WG107009-4,SF2129-2
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-d.i\D042312.b\D826A91.m
Meth Date : 01-May-2012 15:50 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ENEGFS.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

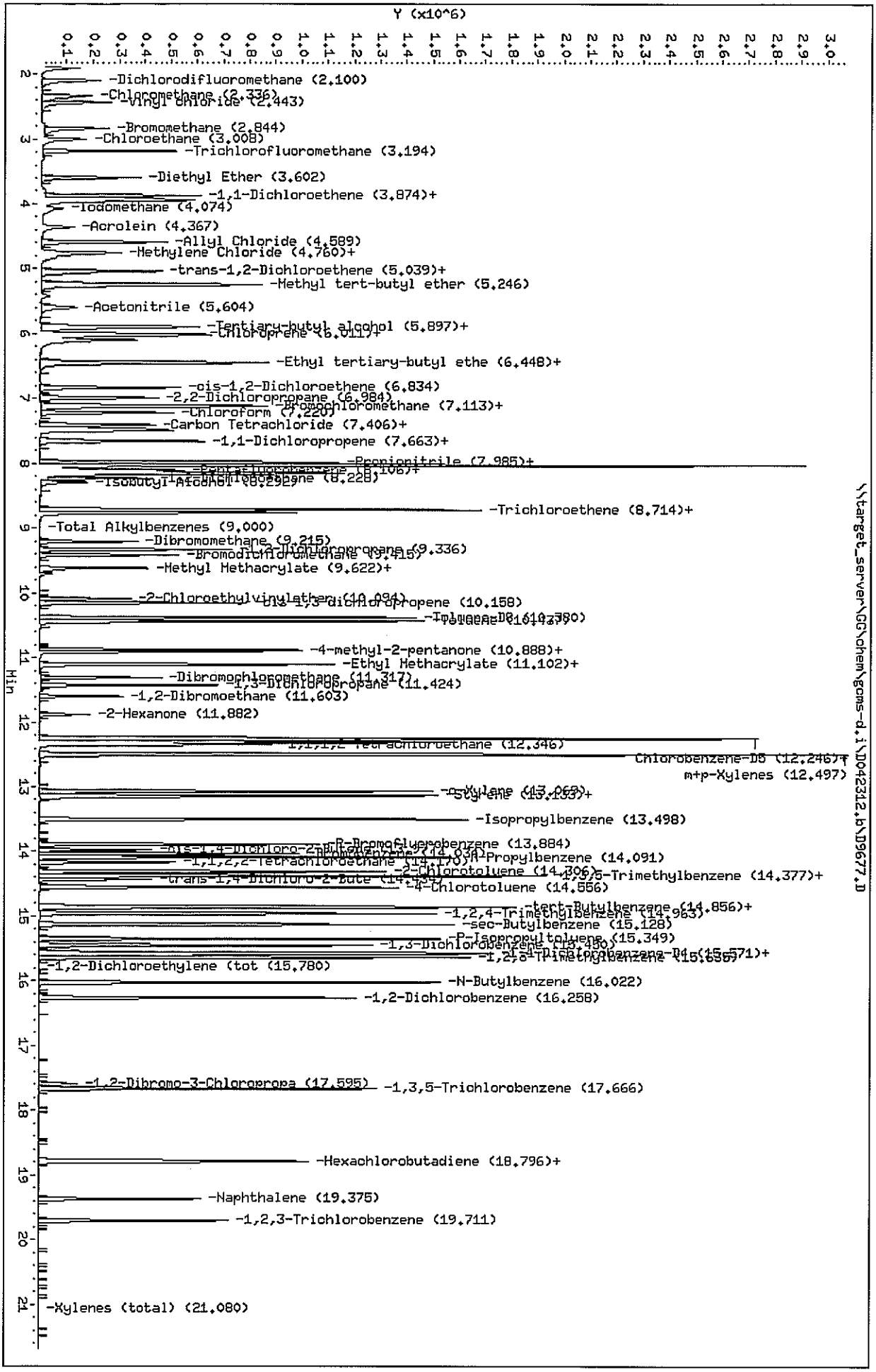
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.100	2.101	(0.259)	285650	52.2073	52.2	
2	Chloromethane	50	2.336	2.337	(0.288)	356636	49.1311	49.1	
3	Vinyl chloride	62	2.443	2.437	(0.301)	350065	55.3060	55.3	
4	Bromomethane	94	2.843	2.838	(0.351)	239439	51.7684	51.8	
5	Chloroethane	64	3.008	3.002	(0.371)	234325	50.5582	50.6	
6	Trichlorofluoromethane	101	3.187	3.181	(0.393)	411733	46.1437	46.1	
9	1,1-Dichloroethene	96	3.873	3.867	(0.478)	244496	49.2262	49.2	
11	Freon-113	151	3.945	3.939	(0.487)	170900	51.9266	51.9	
15	Acetone	43	4.838	4.833	(0.597)	43789	40.4572	40.4	
10	Carbon Disulfide	76	3.916	3.903	(0.483)	775095	42.9830	43.0	
103	Methyl Acetate	43	5.074	5.069	(0.626)	168692	59.4267	59.4	
14	Methylene Chloride	84	4.760	4.754	(0.587)	241321	48.6228	48.6	
17	trans-1,2-Dichloroethene	96	5.038	5.033	(0.622)	209143	42.8555	42.8	
19	Methyl tert-butyl ether	73	5.246	5.240	(0.647)	1167029	105.196	105	
25	1,1-Dichloroethane	63	6.032	6.027	(0.744)	417851	46.1208	46.1	
29	cis-1,2-Dichloroethene	96	6.833	6.828	(0.843)	232148	43.9274	43.9	
40	2-Butanone	43	7.634	7.628	(0.942)	76878	57.8239	57.8	
34	Chloroform	83	7.219	7.214	(0.891)	375025	44.8968	44.9	
38	1,1,1-Trichloroethane	97	7.491	7.485	(0.924)	326682	44.4077	44.4	
43	Cyclohexane	56	7.119	7.114	(0.878)	390792	45.7211	45.7	
35	Carbon Tetrachloride	117	7.405	7.400	(0.845)	271865	44.6328	44.6	
41	Benzene	78	7.984	7.972	(0.911)	992497	45.0441	45.0	
47	1,2-Dichloroethane	62	8.227	8.222	(0.939)	290109	47.8310	47.8	
48	Trichloroethene	95	8.714	8.708	(0.994)	239273	42.1092	42.1	

Data File: \\target_server\GG\chem\gcms-d.i\D042312.b\D9677.D
Report Date: 01-May-2012 15:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
104	Methylcyclohexane	83	8.714	8.708	(1.075)	446306	52.4227	52.4	
51	1,2-Dichloropropane	63	9.336	9.330	(1.065)	241508	47.1175	47.1	
52	Bromodichloromethane	83	9.414	9.409	(1.074)	308831	48.3447	48.3	
53	cis-1,3-dichloropropene	75	10.158	10.152	(1.159)	386272	50.0129	50.0	
58	4-methyl-2-pentanone	43	10.873	10.867	(1.241)	181653	59.0908	59.1	
57	Toluene	92	10.437	10.431	(1.191)	638084	45.4716	45.5	
60	trans-1,3-Dichloropropene	75	10.916	10.903	(1.246)	359043	48.8132	48.8	
61	1,1,2-Trichloroethane	83	11.102	11.089	(1.267)	176744	49.2946	49.3	
59	Tetrachloroethene	164	10.887	10.882	(0.889)	175765	40.3403	40.3	
65	2-Hexanone	43	11.881	11.876	(0.970)	118307	55.6506	55.6	
62	Dibromochloromethane	129	11.316	11.304	(0.924)	218838	49.1156	49.1	
64	1,2-Dibromoethane	107	11.602	11.590	(1.324)	196816	49.1097	49.1	
67	Chlorobenzene	112	12.267	12.254	(1.002)	700962	46.4980	46.5	
68	Ethylbenzene	106	12.310	12.297	(1.005)	368834	42.6083	42.6(R)	
71	m+p-Xylenes	106	12.496	12.490	(1.020)	957271	88.3253	88.3	
72	o-Xylene	106	13.068	13.055	(1.067)	446592	46.8801	46.9	
73	Styrene	104	13.132	13.127	(1.072)	774286	48.0465	48.0	
74	Bromoform	173	13.161	13.148	(1.075)	127749	45.5515	45.6	
75	Isopropylbenzene	105	13.497	13.491	(0.867)	1121400	49.4601	49.5	
81	1,1,2,2-Tetrachloroethane	83	14.169	14.164	(0.910)	277779	47.1086	47.1	
90	1,3-Dichlorobenzene	146	15.449	15.436	(0.993)	522521	41.7974	41.8(R)	
92	1,4-Dichlorobenzene	146	15.585	15.579	(1.001)	555736	41.4212	41.4(R)	
95	1,2-Dichlorobenzene	146	16.257	16.251	(1.045)	499507	43.4062	43.4	
96	1,2-Dibromo-3-Chloropropane	75	17.594	17.588	(1.130)	39787	43.5014	43.5	
99	1,2,4-Trichlorobenzene	180	18.795	18.790	(1.208)	278874	43.1273	43.1	
33	Bromochloromethane	128	7.105	7.092	(0.877)	94407	47.0652	47.1	
54	1,4-Dioxane	88	9.657	9.652	(1.102)	34421	767.194	767	
102	1,2,3-Trichlorobenzene	180	19.711	19.705	(1.266)	225957	45.0247	45.0	
82	1,3,5-Trimethylbenzene	105	14.377	14.371	(0.924)	941838	41.9050	41.9	
88	1,2,4-Trimethylbenzene	105	14.963	14.950	(0.961)	952890	42.7364	42.7	
85	4-Chlorotoluene	91	14.555	14.543	(0.935)	866097	43.9606	44.0	
93	N-Butylbenzene	91	16.021	16.015	(1.029)	961477	42.3310	42.3	
80	N-Propylbenzene	91	14.091	14.078	(0.905)	1415229	43.9175	43.9	
101	Naphthalene	128	19.375	19.369	(1.245)	513565	41.2704	41.3	
89	P-Isopropyltoluene	119	15.356	15.343	(0.987)	1003709	45.6118	45.6	
94	sec-Butylbenzene	105	15.127	15.115	(0.972)	1225103	42.2034	42.2	
86	tert-Butylbenzene	119	14.856	14.843	(0.955)	952457	43.9775	44.0	
$ 37	Dibromofluoromethane	113	7.462	7.457	(0.921)	201076	48.8679	48.9	
$ 45	1,2-Dichloroethane-D4	65	8.142	8.135	(1.004)	239782	49.5874	49.6	
$ 55	Toluene-D8	98	10.380	10.374	(1.184)	928207	54.4087	54.4	
$ 76	P-Bromofluorobenzene	95	13.883	13.878	(1.584)	398054	59.2890	59.3	
* 42	Pentafluorobenzene	168	8.106	8.100	(1.000)	423000	50.0000		
* 49	1,4-Difluorobenzene	114	8.764	8.751	(1.000)	773898	50.0000		
* 66	Chlorobenzene-D5	117	12.246	12.233	(1.000)	788352	50.0000		
* 91	1,4-Dichlorobenzene-D4	152	15.563	15.558	(1.000)	429030	50.0000		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Y (x10^6)
Min
-Dichlorodifluoromethane (2.100)
-Chloromethane (2.336)
-Vinyl chloride (2.443)
-Bromomethane (2.844)
-Chloroethane (3.008)
-Trichlorofluoromethane (3.194)
-Diethyl Ether (3.602)
-1,1-Dichloroethene (3.874)+
-Iodomethane (4.074)
-Acrolein (4.367)
-Allyl Chloride (4.589)
-Methylene Chloride (4.760)+
-trans-1,2-Dichloroethene (5.039)+
-Methyl tert-butyl ether (5.246)
-Acetonitrile (5.604)
-Tertiary-butyl alcohol (5.897)+
-Chloroprene (6.011)+
-Ethyl tertiary-butyl ethe (6.448)+
-cis-1,2-Dichloroethene (6.834)
-2,2-Dichloropropane (6.984)
-Bromochloromethane (7.113)+
-Chloroform (7.220)
-Carbon Tetrachloride (7.406)+
-1,1-Dichloropropene (7.663)+
-Propionitrile (7.985)+
-Isobutyl Alcohol (8.228)
-Trichloroethene (8.714)+
-Total Alkylbenzenes (9.000)
-Dibromomethane (9.215)
-Bromodichloromethane (9.415)
-Methyl Methacrylate (9.622)+
-2-Chloroethyl vinyl ether (10.094)
-cis-1,3-Dichloropropene (10.158)
-Toluene-D8 (10.377)
-4-methyl-2-pentanone (10.888)+
-Ethyl Methacrylate (11.102)+
-Dibromochloromethane (11.317)
-1,3-Dichloropropane (11.424)
-1,2-Dibromoethane (11.603)
-2-Hexanone (11.882)
-1,1,1,2-Tetrachloroethane (12.346)
Chlorobenzene-D5 (12.246)+
m+p-Xylenes (12.497)
-o-Xylene (13.063)
-Styrene (13.153)+
-Isopropylbenzene (13.498)
-trans-1,4-Dichloro-2-Butene (13.884)
-4-Bromofluorobenzene (13.884)
-n-Propylbenzene (14.091)
-1,1,2,2-Tetrachloroethane (14.170)
-2-Chlorotoluene (14.306)
-1,3,5-Trimethylbenzene (14.377)+
-4-Chlorotoluene (14.556)
-tert-Butylbenzene (14.856)+
-1,2,4-Trimethylbenzene (14.963)
-sec-Butylbenzene (15.128)
-p-Isopropyltoluene (15.349)
-1,3-Dichlorobenzene (15.450)
-1,2,3-Trimethylbenzene (15.636)
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (16.022)
-1,2-Dichlorobenzene (16.258)
-1,2-Dibromo-3-Chloroprop (17.595)
-1,3,5-Trichlorobenzene (17.666)
-Hexachlorobutadiene (18.796)+
-Naphthalene (19.375)
-1,2,3-Trichlorobenzene (19.711)
-Xylenes (total) (21.080)
Data File: \\target_server\GC\chem\gcms-d.i\D042312.b\D9677.D
Date : 23-APR-2012 09:59
Client ID: WG107276-LCS
Sample Info: WG107276-1,SF2129
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: MHM
Column diameter: 0.18
\\target_server\GC\chem\gcms-d.i\D042312.b\D9677.D

LCS Recovery Report

Client:
Lab ID: WG107338-1
Client ID: LCS
Project:
SDG: SF2129

Sample Date:
Received Date: 24-APR-12
Extract Date:
Extracted By: MMM
Extraction Method: SW846 8260B
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	111.	50.0	55.7	ug/L	29-164
Chloromethane	99.6	50.0	49.8	ug/L	59-123
Vinyl Chloride	116.	50.0	58.2	ug/L	64-131
Bromomethane	103.	50.0	51.5	ug/L	57-135
Chloroethane	106.	50.0	52.9	ug/L	53-157
Trichlorofluoromethane	98.4	50.0	49.2	ug/L	70-149
1,1-Dichloroethene	104.	50.0	51.8	ug/L	88-127
Freon-113	98.8	50.0	49.4	ug/L	73-126
Acetone	104.	50.0	52.2	ug/L	62-172
Carbon Disulfide	92.2	50.0	46.1	ug/L	71-129
Methyl Acetate	132.	50.0	65.8	ug/L	70-132
Methylene Chloride	104.	50.0	52.2	ug/L	72-129
trans-1,2-Dichloroethene	93.2	50.0	46.6	ug/L	78-125
Methyl tert-butyl Ether	111.	100.	111.	ug/L	81-125
1,1-Dichloroethane	99.2	50.0	49.6	ug/L	76-130
cis-1,2-Dichloroethene	95.4	50.0	47.7	ug/L	85-123
2-Butanone	132.	50.0	65.9	ug/L	71-132
Chloroform	98.0	50.0	49.0	ug/L	78-128
1,1,1-Trichloroethane	95.2	50.0	47.6	ug/L	77-129
Cyclohexane	98.6	50.0	49.3	ug/L	71-133
Carbon Tetrachloride	95.6	50.0	47.8	ug/L	87-126
Benzene	97.0	50.0	48.5	ug/L	86-116
1,2-Dichloroethane	106.	50.0	53.0	ug/L	81-125
Trichloroethene	89.4	50.0	44.7	ug/L	79-121
Methylcyclohexane	100.	50.0	50.2	ug/L	73-125
1,2-Dichloropropane	103.	50.0	51.5	ug/L	84-118
Bromodichloromethane	106.	50.0	52.9	ug/L	85-122
cis-1,3-Dichloropropene	110.	50.0	55.1	ug/L	83-119
4-Methyl-2-Pentanone	* 134.	50.0	67.0	ug/L	83-122
Toluene	98.8	50.0	49.4	ug/L	84-118
trans-1,3-Dichloropropene	106.	50.0	52.9	ug/L	85-135
1,1,2-Trichloroethane	109.	50.0	54.6	ug/L	84-115
Tetrachloroethene	84.8	50.0	42.4	ug/L	47-155
2-Hexanone	122.	50.0	61.1	ug/L	80-124
Dibromochloromethane	108.	50.0	54.2	ug/L	85-119

600 Technology Way
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Tel:(207) 874-2400 Fax:(207) 775-4029

LCS Recovery Report

Client:
Lab ID: WG107338-1
Client ID: LCS
Project:
SDG: SF2129

Sample Date:
Received Date: 24-APR-12
Extract Date:
Extracted By: MMM
Extraction Method: SW846 8260B
Lab Prep Batch: WG107338

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 03-MAY-12

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,2-Dibromoethane	111.	50.0	55.4	ug/L	84-116
Chlorobenzene	100.	50.0	50.0	ug/L	89-113
Ethylbenzene	90.6	50.0	45.3	ug/L	88-113
M+P-Xylenes	94.0	100.	94.0	ug/L	88-116
o-Xylene	99.2	50.0	49.6	ug/L	90-116
Styrene	102.	50.0	51.0	ug/L	88-117
Bromoform	102.	50.0	50.9	ug/L	86-117
Isopropylbenzene	107.	50.0	53.5	ug/L	96-136
1,1,2,2-Tetrachloroethane	106.	50.0	53.1	ug/L	79-121
1,3-Dichlorobenzene	90.4	50.0	45.2	ug/L	86-110
1,4-Dichlorobenzene	88.4	50.0	44.2	ug/L	86-111
1,2-Dichlorobenzene	94.6	50.0	47.3	ug/L	86-112
1,2-Dibromo-3-Chloropropane	102.	50.0	50.9	ug/L	67-124
1,2,4-Trichlorobenzene	93.2	50.0	46.6	ug/L	76-126
bromochloromethane	106.	50.0	53.1	ug/L	85-117
1,4-Dioxane	83.8	1000	838.	ug/L	10-149
1,2,3-trichlorobenzene	97.4	50.0	48.7	ug/L	70-122
1,3,5-Trimethylbenzene	91.0	50.0	45.5	ug/L	80-123
1,2,4-Trimethylbenzene	91.8	50.0	45.9	ug/L	83-118
4-Chlorotoluene	94.4	50.0	47.2	ug/L	81-122
n-Butylbenzene	91.2	50.0	45.6	ug/L	84-121
n-Propylbenzene	94.6	50.0	47.3	ug/L	83-121
Naphthalene	91.0	50.0	45.5	ug/L	62-126
p-Isopropyltoluene	97.6	50.0	48.8	ug/L	88-121
sec-Butylbenzene	91.0	50.0	45.5	ug/L	82-122
tert-Butylbenzene	93.8	50.0	46.9	ug/L	84-121
1,2-Dichloroethane-d4	96.8				67-135
Toluene-d8	108.				65-128
P-Bromofluorobenzene	121.				56-133
Dibromofluoromethane	96.0				68-128

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Data File: \\target_server\GG\chem\gcms-d.i\D042412.b\D9712.D
Report Date: 03-May-2012 09:31

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D042412.b\D9712.D
Lab Smp Id: WG107338-1 Client Smp ID: WG107338-LCS
Inj Date : 24-APR-2012 10:00 MS Autotune Date: 05-MAR-2010 09:29
Operator : MMM Inst ID: gcms-d.i
Smp Info : WG107338-1,SF2129
Misc Info : WG107338,WG107009-4,SF2129-8
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-d.i\D042412.b\D826A91.m
Meth Date : 03-May-2012 09:27 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ENEGFS.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

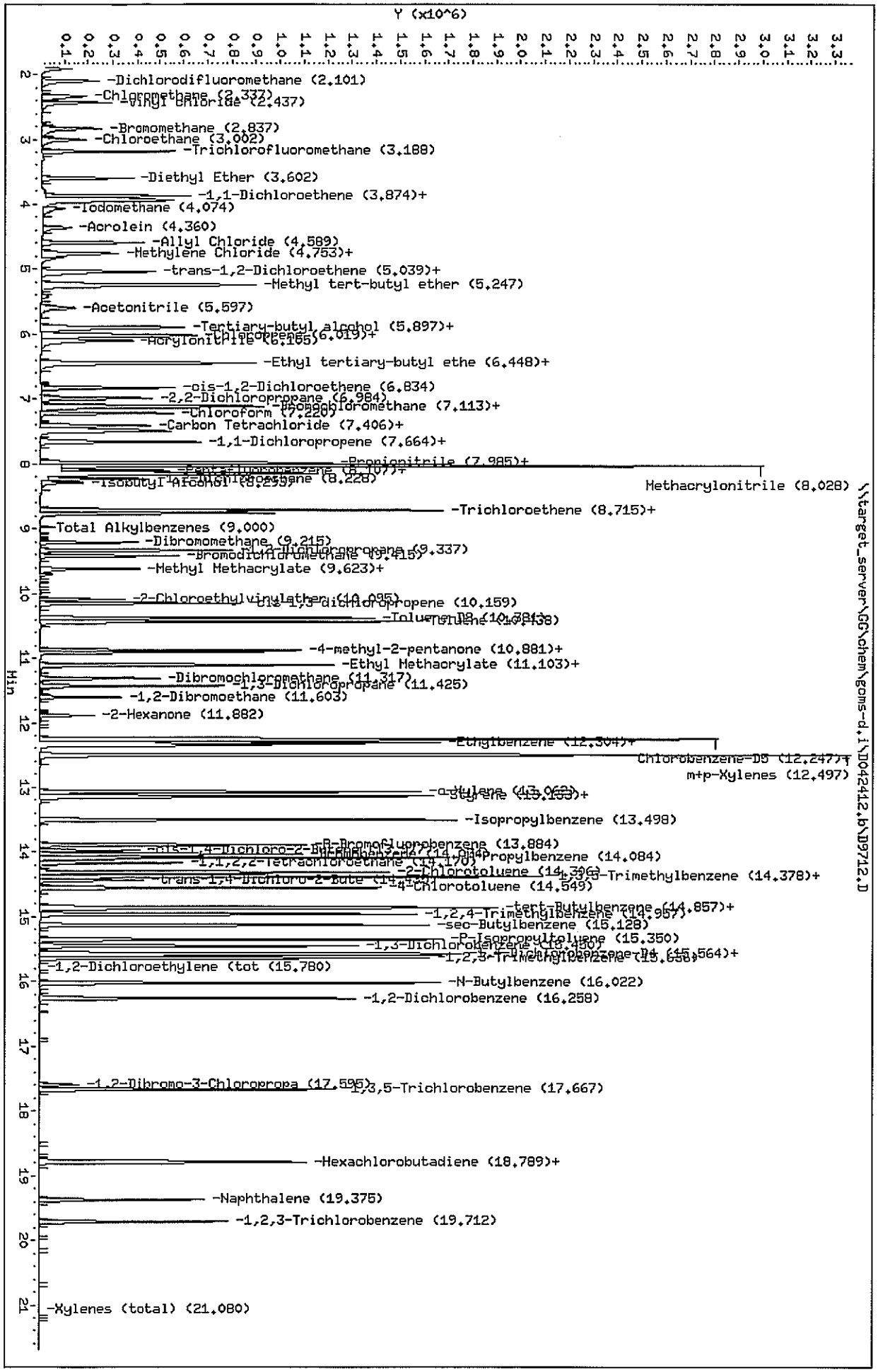
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.100	2.101	(0.259)	302852	55.7365	55.7	
2	Chloromethane	50	2.336	2.337	(0.288)	359096	49.8143	49.8	
3	Vinyl chloride	62	2.436	2.437	(0.301)	365842	58.2383	58.2	
4	Bromomethane	94	2.837	2.838	(0.350)	236559	51.5017	51.5	
5	Chloroethane	64	3.001	3.002	(0.370)	243360	52.8731	52.9	
6	Trichlorofluoromethane	101	3.187	3.181	(0.393)	435982	49.2014	49.2	
9	1,1-Dichloroethene	96	3.873	3.867	(0.478)	256108	51.7990	51.8	
11	Freon-113	151	3.945	3.939	(0.487)	161123	49.4395	49.4	
15	Acetone	43	4.839	4.833	(0.597)	56130	52.2202	52.2	
10	Carbon Disulfide	76	3.916	3.903	(0.483)	827877	46.1318	46.1	
103	Methyl Acetate	43	5.068	5.069	(0.625)	185645	65.8270	65.8	
14	Methylene Chloride	84	4.760	4.754	(0.587)	256903	52.2286	52.2	
17	trans-1,2-Dichloroethene	96	5.039	5.033	(0.622)	225290	46.5526	46.6	
19	Methyl tert-butyl ether	73	5.246	5.240	(0.647)	1221768	110.897	111	
25	1,1-Dichloroethane	63	6.033	6.027	(0.744)	446687	49.6468	49.6	
29	cis-1,2-Dichloroethene	96	6.834	6.828	(0.843)	250562	47.7417	47.7	
40	2-Butanone	43	7.634	7.628	(0.942)	90002	65.9237	65.9	
34	Chloroform	83	7.220	7.214	(0.891)	406840	49.0447	49.0	
38	1,1,1-Trichloroethane	97	7.491	7.485	(0.924)	347468	47.5620	47.6	
43	Cyclohexane	56	7.120	7.114	(0.878)	418443	49.2969	49.3	
35	Carbon Tetrachloride	117	7.406	7.400	(0.846)	289145	47.8448	47.8	
41	Benzene	78	7.985	7.972	(0.912)	1059720	48.4751	48.5	
47	1,2-Dichloroethane	62	8.228	8.222	(0.940)	319192	53.0418	53.0	
48	Trichloroethene	95	8.714	8.708	(0.995)	253225	44.6781	44.7	

Data File: \\target_server\GG\chem\gcms-d.i\D042412.b\D9712.D
Report Date: 03-May-2012 09:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
104	Methylcyclohexane	83	8.714	8.708	(1.075)	424806	50.2446	50.2	
51	1,2-Dichloropropane	63	9.336	9.330	(1.066)	262134	51.5457	51.5	
52	Bromodichloromethane	83	9.415	9.409	(1.075)	335092	52.8701	52.9	
53	cis-1,3-dichloropropene	75	10.158	10.152	(1.160)	422325	55.1130	55.1	
58	4-methyl-2-pentanone	43	10.873	10.867	(1.242)	213950	67.0282	67.0(R)	
57	Toluene	92	10.437	10.431	(1.192)	687126	49.3534	49.4	
60	trans-1,3-Dichloropropene	75	10.909	10.903	(1.246)	388281	52.9028	52.9	
61	1,1,2-Trichloroethane	83	11.102	11.089	(1.268)	194347	54.6325	54.6	
59	Tetrachloroethene	164	10.888	10.882	(0.889)	187451	42.4461	42.4	
65	2-Hexanone	43	11.882	11.876	(0.970)	137315	61.0773	61.1	
62	Dibromochloromethane	129	11.317	11.304	(0.924)	244281	54.2290	54.2	
64	1,2-Dibromoethane	107	11.603	11.590	(1.325)	220446	55.4405	55.4	
67	Chlorobenzene	112	12.268	12.254	(1.002)	761303	49.9862	50.0	
68	Ethylbenzene	106	12.303	12.297	(1.005)	396644	45.3220	45.3	
71	m+p-Xylenes	106	12.497	12.490	(1.020)	1030012	94.0020	94.0	
72	o-Xylene	106	13.061	13.055	(1.067)	477494	49.5782	49.6	
73	Styrene	104	13.133	13.127	(1.072)	830871	50.9963	51.0	
74	Bromoform	173	13.162	13.148	(1.075)	145153	50.9079	50.9	
75	Isopropylbenzene	105	13.498	13.491	(0.867)	1209439	53.5249	53.5	
81	1,1,2,2-Tetrachloroethane	83	14.170	14.164	(0.910)	312325	53.1477	53.1	
90	1,3-Dichlorobenzene	146	15.450	15.436	(0.993)	562897	45.1806	45.2	
92	1,4-Dichlorobenzene	146	15.585	15.579	(1.001)	590380	44.1533	44.2	
95	1,2-Dichlorobenzene	146	16.258	16.251	(1.045)	542015	47.2605	47.3	
96	1,2-Dibromo-3-Chloropropane	75	17.587	17.588	(1.130)	46754	50.9103	50.9	
99	1,2,4-Trichlorobenzene	180	18.796	18.790	(1.208)	301790	46.5735	46.6	
33	Bromochloromethane	128	7.105	7.092	(0.877)	105752	53.0880	53.1	
54	1,4-Dioxane	88	9.658	9.652	(1.103)	37386	838.047	838	
102	1,2,3-Trichlorobenzene	180	19.711	19.705	(1.266)	243395	48.6647	48.7	
82	1,3,5-Trimethylbenzene	105	14.377	14.371	(0.924)	1019439	45.5122	45.5	
88	1,2,4-Trimethylbenzene	105	14.956	14.950	(0.961)	1020455	45.9226	45.9	
85	4-Chlorotoluene	91	14.549	14.543	(0.935)	927063	47.2154	47.2	
93	N-Butylbenzene	91	16.022	16.015	(1.029)	1031623	45.5741	45.6	
80	N-Propylbenzene	91	14.084	14.078	(0.905)	1519572	47.3161	47.3	
101	Naphthalene	128	19.375	19.369	(1.245)	568272	45.4914	45.5	
89	P-Isopropyltoluene	119	15.349	15.343	(0.986)	1071010	48.8361	48.8	
94	sec-Butylbenzene	105	15.128	15.115	(0.972)	1316198	45.4960	45.5	
86	tert-Butylbenzene	119	14.849	14.843	(0.954)	1011465	46.8612	46.9	
$ 37	Dibromofluoromethane	113	7.463	7.457	(0.921)	196224	48.0207	48.0	
$ 45	1,2-Dichloroethane-D4	65	8.142	8.135	(1.004)	232496	48.4153	48.4	
$ 55	Toluene-D8	98	10.380	10.374	(1.185)	914736	54.0427	54.0	
$ 76	P-Bromofluorobenzene	95	13.884	13.878	(1.585)	403188	60.5282	60.5	
* 42	Pentafluorobenzene	168	8.106	8.100	(1.000)	420076	50.0000		
* 49	1,4-Difluorobenzene	114	8.757	8.751	(1.000)	767831	50.0000		
* 66	Chlorobenzene-D5	117	12.246	12.233	(1.000)	797031	50.0000		
* 91	1,4-Dichlorobenzene-D4	152	15.564	15.558	(1.000)	427573	50.0000		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Y (x10^6)
Hin
-Dichlorodifluoromethane (2.101)
-Chloromethane (2.332)
-Vinyl Chloride (2.437)
-Bromomethane (2.837)
-Chloroethane (3.002)
-Trichlorofluoromethane (3.188)
-Diethyl Ether (3.602)
-1,1-Dichloroethene (3.874)+
-Iodomethane (4.074)
-Acrolein (4.360)
-Allyl Chloride (4.589)
-Methylene Chloride (4.753)+
-trans-1,2-Dichloroethene (5.039)+
-Methyl tert-butyl ether (5.247)
-Acetonitrile (5.597)
-Tertiary-butyl alcohol (5.897)+
-Acrylonitrile (6.155)
-Ethyl tertiary-butyl ethe (6.448)+
-cis-1,2-Dichloroethene (6.834)
-2,2-Dichloropropane (6.984)
-Chloroform (7.220)
-Carbon Tetrachloride (7.406)+
-1,1-Dichloropropene (7.664)+
-Propionitrile (7.985)+
Methacrylonitrile (8.028)
-Trichloroethene (8.715)+
-Total Alkylbenzenes (9.000)
-Dibromomethane (9.215)
-Methyl Methacrylate (9.623)+
-4-methyl-2-pentanone (10.881)+
-Ethyl Methacrylate (11.103)+
-1,2-Dibromoethane (11.603)
-2-Hexanone (11.882)
-Ethylbenzene (12.304)+
Chlorobenzene-D5 (12.247)+
m+p-Xylenes (12.497)
-Isopropylbenzene (13.498)
-Propylbenzene (14.084)
-1,2,3-Trimethylbenzene (14.378)+
-tert-Butylbenzene (14.857)+
-sec-Butylbenzene (15.128)
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (16.022)
-1,2-Dichlorobenzene (16.258)
-1,2,3,5-Trichlorobenzene (17.667)
-Hexachlorobutadiene (18.789)+
-Naphthalene (19.375)
-1,2,3-Trichlorobenzene (19.712)
-Xylenes (total) (21.080)
\\target_server\GC\chem\goms-d.i\D042412.b\D9712.D
Data File: \\target_server\GC\chem\goms-d.i\D042412.b\D9712.D
Date : 24-APR-2012 10:00
Client ID: WG107338-LCS
Sample Info: WG107338-1,SF2129
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: goms-d.i
Operator: MHH
Column diameter: 0.18

MS/MSD Recovery Report

MS ID: WG107338-3
MSD ID: WG107338-4
Sample ID: SF2129-9
Client ID: AOC9-MW14PM04172012
Project:
SDG: SF2129

Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338
Report Date: 03-MAY-12

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Dichlorodifluoromethane	50.0	50.0	ug/L	U2.0	61.7	67.4	123.	135.	9	20	29-164
Chloromethane	50.0	50.0	ug/L	U2.0	54.8	60.6	110.	121.	10	20	59-123
Vinyl Chloride	50.0	50.0	ug/L	U2.0	67.5	72.7	135.*	145.*	7	20	64-131
Bromomethane	50.0	50.0	ug/L	U2.0	53.0	60.3	106.	121.	13	20	57-135
Chloroethane	50.0	50.0	ug/L	U2.0	59.8	62.2	120.	124.	4	20	53-157
Trichlorofluoromethane	50.0	50.0	ug/L	U2.0	56.6	59.4	113.	119.	5	20	70-149
1,1-Dichloroethene	50.0	50.0	ug/L	U1.0	58.5	61.6	117.	123.	5	20	88-127
Freon-113	50.0	50.0	ug/L	U1.0	56.8	58.9	114.	118.	4	20	73-126
Acetone	50.0	50.0	ug/L	U5.0	45.9	52.5	91.8	105.	13	20	62-172
Carbon Disulfide	50.0	50.0	ug/L	U1.0	52.7	55.4	105.	111.	5	20	71-129
Methyl Acetate	50.0	50.0	ug/L	U1.0	61.6	65.3	123.	131.	6	20	70-132
Methylene Chloride	50.0	50.0	ug/L	U5.0	56.7	58.8	113.	118.	4	20	72-129
trans-1,2-Dichloroethene	50.0	50.0	ug/L	U1.0	51.2	54.0	102.	108.	5	20	78-125
Methyl tert-butyl Ether	100.	100.	ug/L	U1.0	111.	121.	111.	121.	9	20	81-125
1,1-Dichloroethane	50.0	50.0	ug/L	U1.0	54.1	56.0	108.	112.	3	20	76-130
cis-1,2-Dichloroethene	50.0	50.0	ug/L	1.6	53.7	56.5	104.	110.	5	20	85-123
2-Butanone	50.0	50.0	ug/L	U5.0	67.3	71.0	135.*	142.*	5	20	71-132
Chloroform	50.0	50.0	ug/L	U1.0	52.8	54.5	106.	109.	3	20	78-128
1,1,1-Trichloroethane	50.0	50.0	ug/L	U1.0	53.3	56.0	107.	112.	5	20	77-129
Cyclohexane	50.0	50.0	ug/L	U1.0	58.0	61.6	116.	123.	6	20	71-133
Carbon Tetrachloride	50.0	50.0	ug/L	U1.0	53.2	57.3	106.	115.	7	20	87-126
Benzene	50.0	50.0	ug/L	J0.43	53.7	56.5	106.	112.	5	20	86-116
1,2-Dichloroethane	50.0	50.0	ug/L	U1.0	56.1	57.1	112.	114.	2	20	81-125
Trichloroethene	50.0	50.0	ug/L	U1.0	50.7	52.7	101.	105.	4	20	79-121
Methylcyclohexane	50.0	50.0	ug/L	J0.55	59.9	61.8	119.	122.	3	20	73-125
1,2-Dichloropropane	50.0	50.0	ug/L	U1.0	54.6	57.5	109.	115.	5	20	84-118
Bromodichloromethane	50.0	50.0	ug/L	U1.0	56.0	58.3	112.	117.	4	20	85-122
cis-1,3-Dichloropropene	50.0	50.0	ug/L	U1.0	53.4	56.6	107.	113.	6	20	83-119
4-Methyl-2-Pentanone	50.0	50.0	ug/L	U5.0	69.4	73.1	139.*	146.*	5	20	83-122
Toluene	50.0	50.0	ug/L	U1.0	54.6	57.1	109.	114.	4	20	84-118
trans-1,3-Dichloropropene	50.0	50.0	ug/L	U1.0	53.7	56.4	107.	113.	5	20	85-135
1,1,2-Trichloroethane	50.0	50.0	ug/L	U1.0	59.3	61.1	119.*	122.*	3	20	84-115
Tetrachloroethene	50.0	50.0	ug/L	U1.0	44.1	46.3	88.2	92.6	5	20	47-155
2-Hexanone	50.0	50.0	ug/L	U5.0	59.5	63.8	119.	128.*	7	20	80-124

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MS/MSD Recovery Report

MS ID: WG107338-3
MSD ID: WG107338-4
Sample ID: SF2129-9
Client ID: AOC9-MW14PM04172012
Project:
SDG: SF2129

Received Date: 18-APR-12
Extract Date: 24-APR-12
Extracted By: MMM
Extraction Method: SW846 5030
Lab Prep Batch: WG107338
Report Date: 03-MAY-12

Analysis Date: 24-APR-12
Analyst: MMM
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Dibromochloromethane	50.0	50.0	ug/L	U1.0	51.8	54.5	104.	109.	5	20	85-119
1,2-Dibromoethane	50.0	50.0	ug/L	U1.0	58.9	61.2	118.*	122.*	4	20	84-116
Chlorobenzene	50.0	50.0	ug/L	E200	281.	275.	158.*	146.*	2	20	89-113
Ethylbenzene	50.0	50.0	ug/L	J0.28	46.5	48.7	92.4	96.8	5	20	88-113
M+P-Xylenes	100.	100.	ug/L	U2.0	97.1	100.	97.1	100.	3	20	88-116
o-Xylene	50.0	50.0	ug/L	U1.0	50.9	52.9	102.	106.	4	20	90-116
Styrene	50.0	50.0	ug/L	U1.0	52.1	53.2	104.	106.	2	20	88-117
Bromoform	50.0	50.0	ug/L	U1.0	49.4	51.6	98.8	103.	4	20	86-117
Isopropylbenzene	50.0	50.0	ug/L	J0.58	60.3	63.0	119.	125.	4	20	96-136
1,1,2,2-Tetrachloroethane	50.0	50.0	ug/L	U1.0	56.0	59.4	112.	119.	6	20	79-121
1,3-Dichlorobenzene	50.0	50.0	ug/L	1.1	49.7	52.4	97.2	103.	5	20	86-110
1,4-Dichlorobenzene	50.0	50.0	ug/L	20.	70.7	72.9	102.	107.	3	20	86-111
1,2-Dichlorobenzene	50.0	50.0	ug/L	22.	79.1	80.7	113.*	117.*	2	20	86-112
1,2-Dibromo-3-Chloropropane	50.0	50.0	ug/L	U1.0	53.0	56.6	106.	113.	6	20	67-124
1,2,4-Trichlorobenzene	50.0	50.0	ug/L	U1.0	49.2	51.0	98.4	102.	4	20	76-126
bromochloromethane	50.0	50.0	ug/L	U1.0	56.0	57.3	112.	115.	2	20	85-117
1,4-Dioxane	1000	1000	ug/L	U100	323.	848.	32.3	84.8	90*	20	10-149
1,2,3-trichlorobenzene	50.0	50.0	ug/L	U1.0	51.3	54.0	103.	108.	5	20	70-122
1,3,5-Trimethylbenzene	50.0	50.0	ug/L	U1.0	48.7	51.0	97.4	102.	5	20	80-123
1,2,4-Trimethylbenzene	50.0	50.0	ug/L	U1.0	49.1	51.2	98.2	102.	4	20	83-118
4-Chlorotoluene	50.0	50.0	ug/L	U1.0	50.5	52.6	101.	105.	4	20	81-122
n-Butylbenzene	50.0	50.0	ug/L	J0.33	49.9	51.6	99.1	102.	3	20	84-121
n-Propylbenzene	50.0	50.0	ug/L	J0.70	52.9	55.3	104.	109.	4	20	83-121
Naphthalene	50.0	50.0	ug/L	U1.0	48.3	51.1	96.6	102.	6	20	62-126
p-Isopropyltoluene	50.0	50.0	ug/L	U1.0	52.8	55.5	106.	111.	5	20	88-121
sec-Butylbenzene	50.0	50.0	ug/L	J0.75	52.1	53.9	103.	106.	3	20	82-122
tert-Butylbenzene	50.0	50.0	ug/L	U1.0	51.8	53.9	104.	108.	4	20	84-121
1,2-Dichloroethane-d4							100.	99.4			67-135
Toluene-d8							108.	110.			65-128
P-Bromofluorobenzene							126.	124.			56-133
Dibromofluoromethane							95.7	97.7			68-128

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Data File: \\target_server\GG\chem\gcms-d.i\D042412.b\D9730.D
Report Date: 03-May-2012 09:43

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Data file : \\target_server\GG\chem\gcms-d.i\D042412.b\D9730.D
Lab Smp Id: WG107338-3 Client Smp ID: -MW14PM04172012MSD
Inj Date : 24-APR-2012 18:46 MS Autotune Date: 05-MAR-2010 09:29
Operator : MMM Inst ID: gcms-d.i
Smp Info : WG107338-3,SF2129
Misc Info : WG107338,WG107009-4,SF2129-9
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-d.i\D042412.b\D826A91.m
Meth Date : 03-May-2012 09:27 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 21 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ENEGFS.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

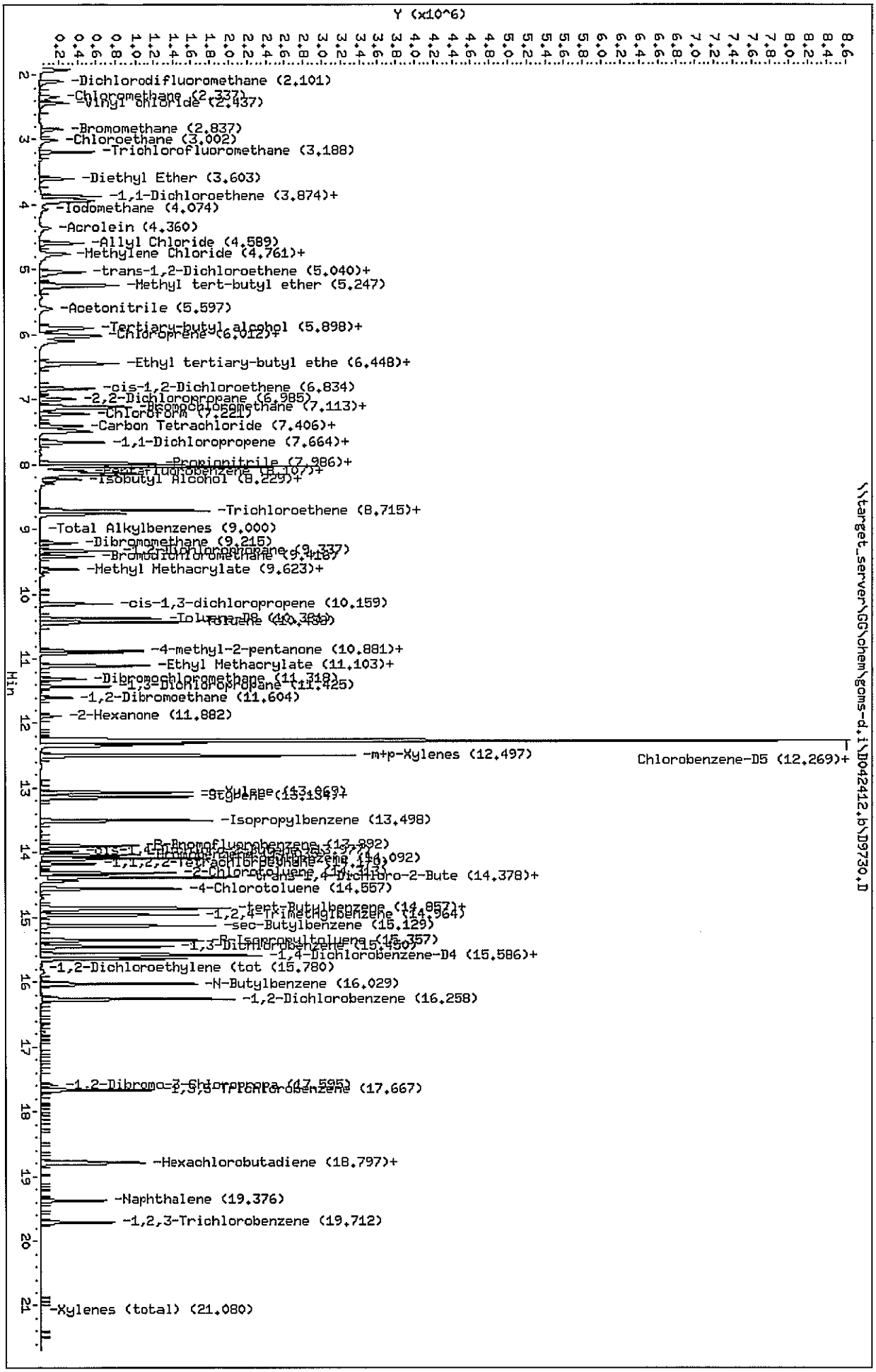
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.101	2.101	(0.259)	297559	61.6615	61.7	
2	Chloromethane	50	2.336	2.337	(0.288)	351219	54.8597	54.8	
3	Vinyl chloride	62	2.437	2.437	(0.301)	376167	67.5390	67.5(R)	
4	Bromomethane	94	2.837	2.838	(0.350)	216378	53.0429	53.0	
5	Chloroethane	64	3.001	3.002	(0.370)	244263	59.7551	59.8	
6	Trichlorofluoromethane	101	3.187	3.181	(0.393)	445131	56.5625	56.6	
9	1,1-Dichloroethene	96	3.874	3.867	(0.478)	258396	58.5379	58.5	
11	Freon-113	151	3.945	3.939	(0.487)	165784	56.8313	56.8	
15	Acetone	43	4.839	4.833	(0.597)	43823	45.9069	45.9	
10	Carbon Disulfide	76	3.917	3.903	(0.483)	843451	52.7304	52.7	
103	Methyl Acetate	43	5.068	5.069	(0.625)	154258	61.6047	61.6	
14	Methylene Chloride	84	4.760	4.754	(0.587)	247164	56.7017	56.7	
17	trans-1,2-Dichloroethene	96	5.039	5.033	(0.622)	219697	51.1938	51.2	
19	Methyl tert-butyl ether	73	5.247	5.240	(0.647)	1089063	111.305	111	
25	1,1-Dichloroethane	63	6.033	6.027	(0.744)	432190	54.0872	54.1	
29	cis-1,2-Dichloroethene	96	6.834	6.828	(0.843)	250357	53.7124	53.7	
40	2-Butanone	43	7.635	7.628	(0.942)	82005	67.3083	67.3(R)	
34	Chloroform	83	7.220	7.214	(0.891)	389317	52.8449	52.8	
38	1,1,1-Trichloroethane	97	7.492	7.485	(0.924)	345737	53.2872	53.3	
43	Cyclohexane	56	7.120	7.114	(0.878)	436875	57.9525	58.0	
35	Carbon Tetrachloride	117	7.406	7.400	(0.845)	289600	53.1753	53.2	
41	Benzene	78	7.985	7.972	(0.911)	1057633	53.6852	53.7	
47	1,2-Dichloroethane	62	8.228	8.222	(0.939)	304437	56.1379	56.1	
48	Trichloroethene	95	8.714	8.708	(0.994)	261657	50.7038	50.7	

Data File: \\target_server\GG\chem\gcms-d.i\D042412.b\D9730.D
Report Date: 03-May-2012 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
104	Methylcyclohexane	83	8.714	8.708	(1.075)	449916	59.9187	59.9	
51	1,2-Dichloropropane	63	9.336	9.330	(1.065)	250120	54.5771	54.6	
52	Bromodichloromethane	83	9.415	9.409	(1.074)	319974	56.0213	56.0	
53	cis-1,3-dichloropropene	75	10.159	10.152	(1.159)	368518	53.3653	53.4	
58	4-methyl-2-pentanone	43	10.874	10.867	(1.241)	201989	69.4301	69.4(R)	
57	Toluene	92	10.438	10.431	(1.191)	685560	54.6411	54.6	
60	trans-1,3-Dichloropropene	75	10.917	10.903	(1.246)	355436	53.6855	53.7	
61	1,1,2-Trichloroethane	83	11.103	11.089	(1.267)	190081	59.2931	59.3(R)	
59	Tetrachloroethene	164	10.888	10.882	(0.889)	190995	44.1306	44.1	
65	2-Hexanone	43	11.882	11.876	(0.970)	129368	59.5220	59.5	
62	Dibromochloromethane	129	11.317	11.304	(0.924)	228225	51.7937	51.8	
64	1,2-Dibromoethane	107	11.603	11.590	(1.324)	211106	58.9140	58.9(R)	
67	Chlorobenzene	112	12.268	12.254	(1.002)	4150013	280.740	281(AR)	
68	Ethylbenzene	106	12.311	12.297	(1.005)	398212	46.5151	46.5	
71	m+p-Xylenes	106	12.497	12.490	(1.020)	1040799	97.1033	97.1	
72	o-Xylene	106	13.069	13.055	(1.067)	479316	50.8765	50.9	
73	Styrene	104	13.133	13.127	(1.072)	830937	52.1369	52.1	
74	Bromoform	173	13.162	13.148	(1.075)	137757	49.4595	49.4	
75	Isopropylbenzene	105	13.498	13.491	(0.867)	1282975	60.3223	60.3	
81	1,1,2,2-Tetrachloroethane	83	14.170	14.164	(0.910)	309797	56.0071	56.0	
90	1,3-Dichlorobenzene	146	15.450	15.436	(0.993)	583082	49.7210	49.7	
92	1,4-Dichlorobenzene	146	15.593	15.579	(1.002)	889569	70.6804	70.7(R)	
95	1,2-Dichlorobenzene	146	16.258	16.251	(1.045)	853820	79.0936	79.1(R)	
96	1,2-Dibromo-3-Chloropropane	75	17.595	17.588	(1.130)	45893	53.0159	53.0	
99	1,2,4-Trichlorobenzene	180	18.796	18.790	(1.208)	301585	49.2458	49.2	
33	Bromochloromethane	128	7.106	7.092	(0.877)	99151	56.0450	56.0	
54	1,4-Dioxane	88	9.658	9.652	(1.102)	12501	323.013	323	
102	1,2,3-Trichlorobenzene	180	19.718	19.705	(1.267)	241433	51.2846	51.3	
82	1,3,5-Trimethylbenzene	105	14.377	14.371	(0.924)	1025972	48.6620	48.7	
88	1,2,4-Trimethylbenzene	105	14.964	14.950	(0.961)	1026795	49.0912	49.1	
85	4-Chlorotoluene	91	14.556	14.543	(0.935)	933580	50.5142	50.5	
93	N-Butylbenzene	91	16.029	16.015	(1.030)	1063998	49.9373	49.9	
80	N-Propylbenzene	91	14.091	14.078	(0.905)	1599740	52.9206	52.9	
101	Naphthalene	128	19.375	19.369	(1.245)	570621	48.3381	48.3	
89	P-Isopropyltoluene	119	15.357	15.343	(0.987)	1089554	52.7817	52.8	
94	sec-Butylbenzene	105	15.128	15.115	(0.972)	1419277	52.1203	52.1	
86	tert-Butylbenzene	119	14.856	14.843	(0.955)	1053451	51.8519	51.8	
$ 37	Dibromofluoromethane	113	7.463	7.457	(0.921)	173731	47.8724	47.9	
$ 45	1,2-Dichloroethane-D4	65	8.142	8.135	(1.004)	213682	50.1034	50.1	
$ 55	Toluene-D8	98	10.380	10.374	(1.184)	824746	54.0698	54.1	
$ 76	P-Bromofluorobenzene	95	13.891	13.878	(1.585)	379880	63.2833	63.3	
* 42	Pentafluorobenzene	168	8.107	8.100	(1.000)	373075	50.0000		
* 49	1,4-Difluorobenzene	114	8.764	8.751	(1.000)	691947	50.0000		
* 66	Chlorobenzene-D5	117	12.247	12.233	(1.000)	779656	50.0000		
* 91	1,4-Dichlorobenzene-D4	152	15.564	15.558	(1.000)	402460	50.0000		

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.


Data File: \\target_server\GC\chem\gcms-d.i\D042412.b\D9730.D
Date : 24-APR-2012 18:46
Client ID: -MW14PM0417201ZHSD
Sample Info: WG107338-3,SF2129
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: MHH
Column diameter: 0.18
Y (x10^6)
Min
\\target_server\GC\chem\gcms-d.i\D042412.b\D9730.D
-Dichlorodifluoromethane (2.101)
-Chloromethane (2.337)
-Vinyl chloride (2.437)
-Bromomethane (2.837)
-Chloroethane (3.002)
-Trichlorofluoromethane (3.188)
-Diethyl Ether (3.603)
-1,1-Dichloroethene (3.874)+
-Iodomethane (4.074)
-Acrolein (4.360)
-Allyl Chloride (4.589)
-Methylene Chloride (4.761)+
-trans-1,2-Dichloroethene (5.040)+
-Methyl tert-butyl ether (5.247)
-Acetonitrile (5.597)
-Tertiary-butyl alcohol (5.898)+
-Chloroprene (6.012)+
-Ethyl tertiary-butyl ethe (6.448)+
-cis-1,2-Dichloroethene (6.834)
-2,2-Dichloropropane (6.985)
-Bromochloromethane (7.113)+
-Chloroform (7.221)
-Carbon Tetrachloride (7.406)+
-1,1-Dichloropropene (7.664)+
-Propionitrile (7.986)+
-Isobutyl Alcohol (8.229)+
-Trichloroethene (8.715)+
-Total Alkylbenzenes (9.000)
-Dibromomethane (9.215)
-1,2-Dichloropropane (9.337)
-Bromodichloromethane (9.487)
-Methyl Methacrylate (9.623)+
-cis-1,3-dichloropropene (10.159)
-Toluene-D8 (10.384)
-4-methyl-2-pentanone (10.881)+
-Ethyl Methacrylate (11.103)+
-Dibromochloromethane (11.318)
-1,3-Dichloropropane (11.425)
-1,2-Dibromoethane (11.604)
-2-Hexanone (11.882)
-m+p-Xylenes (12.497)
Chlorobenzene-D5 (12.269)+
-Isopropylbenzene (13.498)
-Bromofluorobenzene (13.892)
-1,1,2,2-Tetrachloroethane (14.092)
-2-Chlorotoluene (14.343)
-4-Chlorotoluene (14.557)
-tert-Butylbenzene (14.857)+
-1,2,4-Trimethylbenzene (14.964)
-sec-Butylbenzene (15.129)
-p-Isopropyltoluene (15.357)
-1,3-Dichlorobenzene (15.450)
-1,4-Dichlorobenzene-D4 (15.586)+
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (16.029)
-1,2-Dichlorobenzene (16.258)
-1,2,3,5-Trichlorobenzene (17.667)
-Hexachlorobutadiene (18.797)+
-Naphthalene (19.376)
-1,2,3-Trichlorobenzene (19.712)
-Xylenes (total) (21.080)

Data File: \\target_server\GG\chem\gcms-d.i\D042412.b\D9731.D
Report Date: 03-May-2012 09:44

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D042412.b\D9731.D
Lab Smp Id: WG107338-4 Client Smp ID: -MW14PM04172012MS
Inj Date : 24-APR-2012 19:14 MS Autotune Date: 05-MAR-2010 09:29
Operator : MMM Inst ID: gcms-d.i
Smp Info : WG107338-4,SF2129
Misc Info : WG107338,WG107009-4,SF2129-9
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-d.i\D042412.b\D826A91.m
Meth Date : 03-May-2012 09:27 gcms-d.i Quant Type: ISTD
Cal Date : 16-APR-2012 13:44 Cal File: D9536.D
Als bottle: 22 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ENEGFS.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

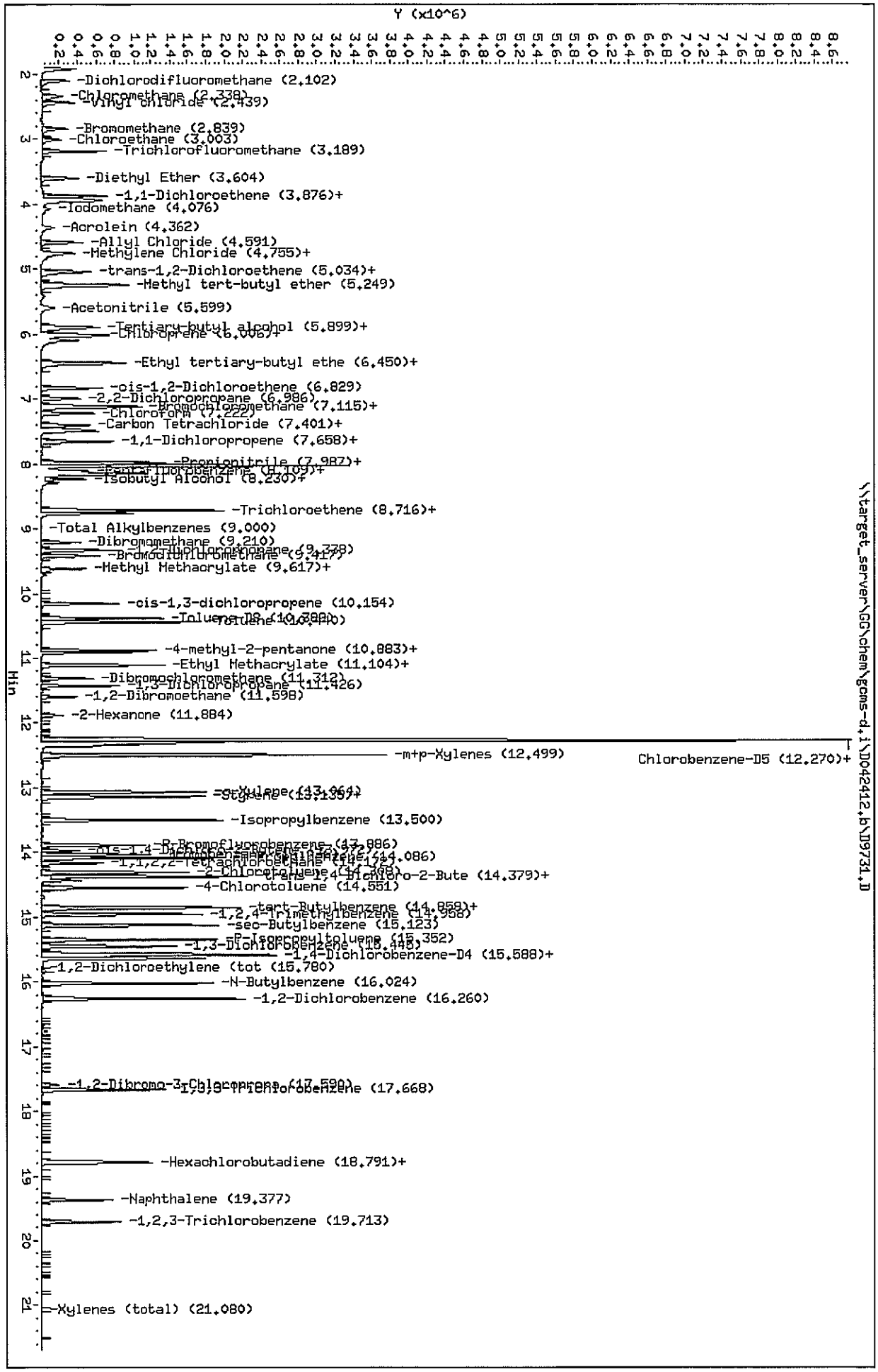
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.102	2.101	(0.259)	354469	67.4068	67.4	
2	Chloromethane	50	2.338	2.337	(0.288)	422475	60.5565	60.6	
3	Vinyl chloride	62	2.438	2.437	(0.301)	440828	72.6859	72.7(R)	
4	Bromomethane	94	2.838	2.838	(0.350)	268068	60.3036	60.3	
5	Chloroethane	64	3.003	3.002	(0.370)	277305	62.2528	62.2	
6	Trichlorofluoromethane	101	3.189	3.181	(0.393)	509520	59.4137	59.4	
9	1,1-Dichloroethene	96	3.875	3.867	(0.478)	296656	61.5509	61.6	
11	Freon-113	151	3.947	3.939	(0.487)	187592	58.9042	58.9	
15	Acetone	43	4.840	4.833	(0.597)	54609	52.4957	52.5	
10	Carbon Disulfide	76	3.911	3.903	(0.482)	966955	55.4069	55.4	
103	Methyl Acetate	43	5.069	5.069	(0.625)	178160	65.2771	65.3	
14	Methylene Chloride	84	4.755	4.754	(0.586)	279302	58.8534	58.8	
17	trans-1,2-Dichloroethene	96	5.034	5.033	(0.621)	252528	54.0425	54.0	
19	Methyl tert-butyl ether	73	5.248	5.240	(0.647)	1288507	120.846	121	
25	1,1-Dichloroethane	63	6.035	6.027	(0.744)	487888	56.0305	56.0	
29	cis-1,2-Dichloroethene	96	6.828	6.828	(0.842)	286824	56.4696	56.5	
40	2-Butanone	43	7.629	7.628	(0.941)	95394	71.0049	71.0(R)	
34	Chloroform	83	7.221	7.214	(0.891)	437541	54.5008	54.5	
38	1,1,1-Trichloroethane	97	7.493	7.485	(0.924)	395622	55.9554	56.0	
43	Cyclohexane	56	7.121	7.114	(0.878)	505929	61.5870	61.6	
35	Carbon Tetrachloride	117	7.400	7.400	(0.845)	336148	57.2812	57.3	
41	Benzene	78	7.979	7.972	(0.911)	1199028	56.4832	56.5	
47	1,2-Dichloroethane	62	8.230	8.222	(0.940)	333614	57.0917	57.1	
48	Trichloroethene	95	8.716	8.708	(0.995)	294092	52.7343	52.7	

Data File: \\target_server\GG\chem\gcms-d.i\D042412.b\D9731.D
Report Date: 03-May-2012 09:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
104	Methylcyclohexane	83	8.716	8.708	(1.075)	505767	61.8110	61.8	
51	1,2-Dichloropropane	63	9.338	9.330	(1.066)	283826	57.4757	57.5	
52	Bromodichloromethane	83	9.417	9.409	(1.075)	359109	58.3492	58.3	
53	cis-1,3-dichloropropene	75	10.153	10.152	(1.159)	421262	56.6138	56.6	
58	4-methyl-2-pentanone	43	10.875	10.867	(1.242)	232828	73.1171	73.1(R)	
57	Toluene	92	10.439	10.431	(1.192)	771579	57.0721	57.1	
60	trans-1,3-Dichloropropene	75	10.911	10.903	(1.246)	403492	56.3789	56.4	
61	1,1,2-Trichloroethane	83	11.097	11.089	(1.267)	211199	61.1403	61.1(R)	
59	Tetrachloroethene	164	10.882	10.882	(0.889)	216305	46.3102	46.3	
65	2-Hexanone	43	11.883	11.876	(0.970)	153959	63.7993	63.8(R)	
62	Dibromochloromethane	129	11.311	11.304	(0.924)	258496	54.4768	54.5	
64	1,2-Dibromoethane	107	11.597	11.590	(1.324)	236358	61.2150	61.2(R)	
67	Chlorobenzene	112	12.269	12.254	(1.002)	4379271	275.097	275(AR)	
68	Ethylbenzene	106	12.305	12.297	(1.005)	448845	48.6878	48.7	
71	m+p-Xylenes	106	12.498	12.490	(1.020)	1157381	100.274	100	
72	o-Xylene	106	13.063	13.055	(1.067)	536729	52.9047	52.9	
73	Styrene	104	13.135	13.127	(1.072)	914006	53.2562	53.2	
74	Bromoform	173	13.156	13.148	(1.074)	155062	51.5949	51.6	
75	Isopropylbenzene	105	13.499	13.491	(0.867)	1408293	63.0379	63.0	
81	1,1,2,2-Tetrachloroethane	83	14.171	14.164	(0.910)	345440	59.4549	59.4	
90	1,3-Dichlorobenzene	146	15.451	15.436	(0.993)	644862	52.3512	52.4	
92	1,4-Dichlorobenzene	146	15.587	15.579	(1.001)	963272	72.8648	72.9(R)	
95	1,2-Dichlorobenzene	146	16.259	16.251	(1.045)	914663	80.6650	80.7(R)	
96	1,2-Dibromo-3-Chloropropane	75	17.589	17.588	(1.130)	51567	56.6069	56.6	
99	1,2,4-Trichlorobenzene	180	18.798	18.790	(1.208)	328871	50.9938	51.0	
33	Bromochloromethane	128	7.100	7.092	(0.876)	110460	57.2966	57.3	
54	1,4-Dioxane	88	9.660	9.652	(1.103)	36728	847.626	848	
102	1,2,3-Trichlorobenzene	180	19.713	19.705	(1.266)	266791	53.9524	54.0	
82	1,3,5-Trimethylbenzene	105	14.379	14.371	(0.924)	1129886	51.0197	51.0	
88	1,2,4-Trimethylbenzene	105	14.958	14.950	(0.961)	1125680	51.2370	51.2	
85	4-Chlorotoluene	91	14.550	14.543	(0.935)	1021885	52.6397	52.6	
93	N-Butylbenzene	91	16.023	16.015	(1.029)	1155160	51.6150	51.6	
80	N-Propylbenzene	91	14.086	14.078	(0.905)	1755722	55.2944	55.3	
101	Naphthalene	128	19.377	19.369	(1.245)	635919	51.1173	51.1	
89	P-Isopropyltoluene	119	15.351	15.343	(0.986)	1202886	55.4764	55.5	
94	sec-Butylbenzene	105	15.130	15.115	(0.972)	1543106	53.9491	53.9	
86	tert-Butylbenzene	119	14.851	14.843	(0.954)	1150776	53.9251	53.9	
$ 37	Dibromofluoromethane	113	7.465	7.457	(0.921)	193191	48.8516	48.8	
$ 45	1,2-Dichloroethane-D4	65	8.144	8.135	(1.004)	231013	49.7072	49.7	
$ 55	Toluene-D8	98	10.382	10.374	(1.185)	902972	54.9387	54.9	
$ 76	P-Bromofluorobenzene	95	13.885	13.878	(1.585)	401762	62.1129	62.1	
* 42	Pentafluorobenzene	168	8.108	8.100	(1.000)	406548	50.0000		
* 49	1,4-Difluorobenzene	114	8.759	8.751	(1.000)	745595	50.0000		
* 66	Chlorobenzene-D5	117	12.248	12.233	(1.000)	839574	50.0000		
* 91	1,4-Dichlorobenzene-D4	152	15.566	15.558	(1.000)	422740	50.0000		

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.


Y (x10^6)
Hin
-Dichlorodifluoromethane (2.102)
-Chloromethane (2.338)
-Vinyl chloride (2.439)
-Bromomethane (2.839)
-Chloroethane (3.003)
-Trichlorofluoromethane (3.189)
-Diethyl Ether (3.604)
-1,1-Dichloroethene (3.876)+
-Iodomethane (4.076)
-Acrolein (4.362)
-Allyl Chloride (4.591)
-Methylene Chloride (4.755)+
-trans-1,2-Dichloroethene (5.034)+
-Methyl tert-butyl ether (5.249)
-Acetonitrile (5.599)
-Tertiary-butyl alcohol (5.899)+
-Chloroprene (6.006)+
-Ethyl tertiary-butyl ethe (6.450)+
-cis-1,2-Dichloroethene (6.829)
-2,2-Dichloropropane (6.986)
-Bromochloromethane (7.115)+
-Chloroform (7.222)
-Carbon Tetrachloride (7.401)+
-1,1-Dichloropropene (7.658)+
-Propionitrile (7.987)+
-Isobutyl Alcohol (8.230)+
-Trichloroethene (8.716)+
-Total Alkylbenzenes (9.000)
-Dibromomethane (9.210)
-Bromodichloromethane (9.417)
-Methyl Methacrylate (9.617)+
-cis-1,3-dichloropropene (10.154)
-Toluene (10.340)
-4-methyl-2-pentanone (10.883)+
-Ethyl Methacrylate (11.104)+
-Dibromochloromethane (11.312)
-1,2-Dibromoethane (11.598)
-2-Hexanone (11.884)
-m+p-Xylenes (12.499)
Chlorobenzene-D5 (12.270)+
-Isopropylbenzene (13.500)
-1,1,2,2-Tetrachloroethane (14.086)
-4-Chlorotoluene (14.551)
-1,2,4-Trimethylbenzene (14.988)
-sec-Butylbenzene (15.123)
-1,4-Dichlorobenzene-D4 (15.588)+
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (16.024)
-1,2-Dichlorobenzene (16.260)
-1,2,3-Trichlorobenzene (17.668)
-Hexachlorobutadiene (18.791)+
-Naphthalene (19.377)
-1,2,3-Trichlorobenzene (19.713)
-Xylenes (total) (21.080)
\\target_server\GC\chem\gcms-d.i\D042412.b\D9731.D
Data File: \\target_server\GC\chem\gcms-d.i\D042412.b\D9731.D
Date : 24-APR-2012 19:14
Client ID: -MM14PH041.72012HS
Sample Info: WG107338-4,SF2129
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: HHH
Column diameter: 0.18

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES

GCMS-D INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 4-16-12 9:58

SAMPLE NAME	DATAFILE	%DF	ALS#	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -11	DB880	1	1	V08BFBA0							Y	DCA		
STD200916A -6	09530	1	1	D826a91							Y			
100 -5	31	1	2								Y			
050 -4	32(a)	1	3								Y			Curve OK
020 -3	33	1	4								Y			(a) -10 CCV
005 -2	34	1	5								Y			
001 -1	35	1	6								N			
VSTD001168 -1	36	1	7								Y			
LCSA WG107609 -7	37(a)	1	8								Y			(a) -9 Ind Source
VBLKA	38	1	9								N			
B	39	1	10								N			
C -8	40	1	11								N			
SF2095-1 A	41	1	12		X			X			Y		C2	
SF1968-7 A	42	1	13								Y		C2	
-5 A	43	1	14								Y		C2	
-6 A	44	1	15								Y		C2	
SF2055-2 A	45	1	16								Y		C2	
-3 A	46	1	17								Y		C2	
-4 A	47	1	18								Y		C2	
-5 A	48	1	19								Y		C2	
-6 A	49	1	20								Y		C2	
-9 A	50	1	21								Y		C2	
-7DL A	51	20	22								Y		C2	DL 1:2
-8DL A	52	2	23								N		C2	DL 1:5 & 1:1 21:54 ✓
RINSE	53	1	24								N		Z	
RINSE	54	1	25								N			

STANDARD	CODE
BFB	V8423
CAL. STD.	V8419 V8425
LCS/MS MIX	V8417
EXTRAS MIX	V8414

STANDARD	CODE
IS MIX	V8421
SS MIX	V8422

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

QAMS488

Katahdin Analytical Services 1000221

KATAHDIN ANALYTICAL SERVICES

GCMS-D INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 4-23-12 08:57

					PREP METHOD			Criteria						
SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	5030	5035	1311	KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -3	D8585	1	-1	VOABFBA2							Y	MMM		
VSTD050223A -4	096796	1	1	D826a91							Y			mmm 4-23-12
LCSA WG107276-1	77	1	2								Y			
VBLKA	78	1	3								N			
B	79	1	4								N			
C -2	80	1	5								Y			
BLK MeOH -5	81	1	6							mmm 4-23-12	A	Y		
BLK	82	1	7								N		L	09683 file → BLK
SF1980-70L C	8483	20	8		X			X			Y		L2	2mL → 40mL
SF2052-10L A	8484	5	9								N		L2	8mL → 40mL DL 1.10
-20L A	8485	10	10								N		L2	4mL → 40mL No DL 1:1
-3 A	8486	1	11								Y		L2	
SF2129-1 A	8487	1	12								Y		L2	
-2 A	8488	1	13								Y		L2	
-3 A	8989	1	14								Y		L2	
-4 A	9190	1	15								Y		L2	
-5 A	9291	1	16								Y		L2	
-10 A	9392	1	17								Y		L2	mmm 4-24-12
SF2129-60L A	9493	5	18							mmm 4-24-12	A	Y	L2	8mL → 40mL ~~No DL~~
-70L A	9594	5	19							mmm 4-24-12	A	Y	L2	↓ ~~No DL~~
-80L A	9695	10	20							mmm 4-24-12	N		L2	4mL → 40mL
-90L A	9796	5	21								N		L2	8mL → 40mL 20:25 ✓
SF2045-10L	9897	1	22								N		—	200µL → 40mL AFA added
RINSE	9998	1	23								N			ISST
RINSE D97D2	~~99~~	1	24								N			
VSTD020023A	D9706	1	25	D624a658							Y			

STANDARD	CODE
BFB	V8423
CAL. STD.	V8419/V8427
LCS/MS MIX	V8432
EXTRAS MIX	V8414

STANDARD	CODE
IS MIX	V8421
SS MIX	V8422

Cont. On Next Pg.

Circle Methods:

(SW846 8260)	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	(EPA 624)
	EPA 524

Katahdin Analytical Services 1000222

KATAHDIN ANALYTICAL SERVICES

GCMS-D INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 4-24-12 8:14

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	PREP METHOD 5035	PREP METHOD 1311	Criteria KAS	Criteria DoD	Criteria QAPP	Y/N	ANALYST	PH	COMMENTS
50ng BFB -6	D85846	1	-1	V0ABFBA2							Y	MMM		
VSI0058D24A -7	09710	1	1	D826a91							Y			
LCSA	11	1	2								N			
LCSB WG107338-1	12	1	3								Y			
VBLKA	13	1	4								N			
B	14	1	5								N			
C -2	15	1	6								Y			
MeOH BLK -5	16	1	7		X			X			Y			
SF2052-10L B	17	10	8								Y		L2	4mL⇒40mL
-2 B	18	1	9								Y		L2	
SF2129-8L B	19	4	10								Y		L2	10mL⇒40mL
-9DL B	20	2	11								Y		L2	20mL⇒40mL
SF2045-10L I	21	1	12								Y		L2	10mL⇒40mL
Rinse	22	1	13								N		L2	
SF2052-1 B	23	1	14								Y		L2	
Rinse	24	1	15								N		L2	
Rinse	25	1	16								N		L2	
SF2129-9 B	26	1	17								Y		L2	
-8 B	27	1	18								Y		L2	
-7 B	28	1	19								Y		L2	
-6 B	29	1	20								Y		L2	
-9MS C -3	30	1	21								Y		L2	
-9MSD E -4	31	1	22								Y		L2	19:14
Rinse	32	1	23								N			
Rinse	33	1	24								N			
Rinse	34	1	25								N			

STANDARD	CODE
BFB	V8423
CAL. STD.	V8419/V8427
LCS/MS MIX	V8432
EXTRAS MIX	V8414

STANDARD	CODE
IS MIX	V8421
SS MIX	V8422

Circle Methods:

(SW846 8260)	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

Katahdin Analytical Services 100022

ECOLOGY AND ENVIRONMENT, INC.
FORMER GRIFFISS AIR FORCE BASE, AOC 9
SF6628

KATAHDIN ANALYTICAL SERVICES, INC.
600 TECHNOLOGY WAY
SCARBOROUGH, ME 04074

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QC Summary	----------	1000002	to	1000012
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SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
ECOLOGY AND ENVIRONMENT, INC
FORMER GRIFFISS AIR FORCE BASE, AOC 9
SF6628

Sample Receipt

The following samples were received on September 27, 2012 and were logged in under Katahdin Analytical Services work order number SF6628 for a hardcopy due date of October 16, 2012.

KATAHDIN Sample No.	ECOLOGY AND ENVIRONMENT Sample Identification
SF6628-1	AOC9-TB1092512
SF6628-2	AOC9-SW01PM092512
SF6628-3	AOC9-SW02PM092512
SF6628-4	AOC9-SW03PM092512
SF6628-5	AOC9-MW06PM092512
SF6628-6	AOC9-MW17PM092612
SF6628-7	AOC9-MW15PM092612
SF6628-8	AOC9-MW14PM092612
SF6628-9	AOC9-MW19PM092612
SF6628-10	AOC9-MW19/DPM092612

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 NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Some of the client IDs on the Chain of Custody exceeds the 19-character limit of the Katahdin Analytical Information Management System. Therefore, the first characters "AOC9-" in the client ID for SF2129-7 were omitted on all forms.

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, **Ms. Jennifer Obrin**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of Work Order SF6628 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and

Emergency Response, U.S. EPA, and/or for the specific methods listed below or on the Report of Analysis.

Sample SF6628-6 was used for the matrix spike (MS) and matrix spike duplicate (MSD), as per client request.

8260B Analysis

Samples SF6628-6, 7DL, 8, and 10 were manually integrated the target analytes benzene and/or 1,3-dichlorobenzene. The specific reasons for the manual integrations are indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

The initial calibration analyzed on the D instrument on 9/28/2012 had %RSD values for several analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or quadratic model was used for quantitation instead of an average response factor. The analyte 1,4-dioxane failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient and the coefficient of determination being less than the method acceptance criteria of 0.995 and 0.990, respectively. This compound was calibrated using the average model. The independent check standard (file D2002A) had low concentrations for the target analytes 1,4-dioxane and 4-methyl-2-pentanone which exceeded the DoD QSM acceptance limit of ±20% of the expected value from the ICAL. The independent check standard is the same source as the LCS. There were three analytical batches associated with this initial calibration and the LCS recoveries were evaluated. Since the LCS's had recoveries for these analytes that were acceptable, the associated samples were not reanalyzed. The independent check standard recovery report consists of the full list of spiked analytes, but only the client's list of target analytes are evaluated.

The calibration verification standards (CV's) (files D2059, D2099, and D2124) had low responses for the compounds bromomethane, 1,2-dibromo-3-chloropropane, bromoform, naphthalene, and/or 1,4-dioxane. These responses resulted in %D's that were greater than the DoD QSM version 4.1 acceptance limits of 20%. Since the associated LCS's had acceptable recoveries for these analytes, the associated samples were not reanalyzed.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for all analytes. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these acceptance limits. Katahdin standard operating procedure is to take corrective action only if the number of spiked analytes in the LCS that are outside of the QC limits is greater than the DoD QSM allowable number of exceedances. If the associated MS/MSD has greater than the allowable number of exceedances, no corrective action is taken, as long the LCS is acceptable.

The LCS WG114326-1 had four target analytes with recoveries that were low and outside the laboratory established acceptance limits. The DoD QSM number of allowable exceedances for 61 analytes is three. Since the recoveries were within the DOD QSM acceptance limits, no further action was taken.

There were no other protocol deviations or observations noted by the organics laboratory staff.

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 Operations Manager or the Quality Assurance Officer as verified by the following signature.

Leslie Dimond
10.17.12

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, Inc.

Sample Receipt Condition Report

Client: Ecology + Environment	KAS PM: JO	Sampled By: Client	
Project:	KIMS Entry By: GM	Delivered By: Fed-Ex	
KAS Work Order#: SF6628	KIMS Review By:	Received By: GM	
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 9-27-12/0900	

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): 3.7
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
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 analysis.
6. Volatiles free of headspace:	✓				
Aqueous: No bubble larger than a pea	✓				
Soil/Sediment:					
Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
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				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

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 #
ECOLOGY & ENVIRONMENT, INC.	BOB MEYERS	(716) 684-8060	(716) 684-0844

Address 368 PLEASANT VIEW DR. City LANCASTER State NY Zip Code 14086

Purchase Order # Proj. Name / No. FORMER GAFB/ EE-003186-0001-04TTO Katahdin Quote #

Bill (if different than above) Address

Sampler (Print / Sign) M. Franckowiak / L. Roedl Copies To: BOB MEYERS

LAB USE ONLY WORK ORDER #: SF6628

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: VOCs (8260B) HCl (Filt. ☐Y ☒N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	AOC9-TB092512	9/25/12/1045	GW	3	X									
	AOC9-SW01PM092512	9/25/12/1405	SW	3	X									
	AOC9-SW02PM092512	9/25/12/1355	SW	3	X									
	AOC9-SW03PM092512	9/25/12/1340	SW	3	X									
	AOC9-MW06PM092512	9/25/12/1650	GW	3	X									
	AOC9-MW17PM092612	9/26/12/0945	GW	6	X	*Extra volume for MS/MSD								
	AOC9-MW15PM092612	9/26/12/1100	GW	3	X									
	AOC9-MW14PM092612	9/26/12/1320	GW	3	X									
	AOC9-MW19PM092612	9/26/12/1610	GW	3	X									
	AOC9-MW19DPM092612	9/26/12/1610	GW	3	X									
		/												
		/												
		/												
		/												
		/												
		/												

M. Franckowiak 9/26/12

COMMENTS

Analyze samples collected on 9/25/12 first.

Airbill #: 8718 1641 4014

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
M. Franckowiak	9/26/12 1700	9-27-12 0900			
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.

ORIGINAL

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Sep. 27, 2012
02:23 PM

Login Number: SF6628

Account: ENE001 NoWeb
Ecology and Environment, Inc.

Project: ENEGFS
Former Griffiss Air Force Base, AOC 9

Primary Report Address:
Robert Meyers
Ecology and Environment, Inc.
368 Pleasant View Dr.

Lancaster,NY 14086
RMeyers@ene.com

Primary Invoice Address:
Accounts Payable
Ecology and Environment, Inc.
368 Pleasant View Dr.

Lancaster,NY 14086

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming: ENGRF

Login Information:

ANALYSIS INSTRUCTIONS	:	DoD QSM w/lab limits.
CHECK NO.	:	
CLIENT PO#	:	002888.PI02.09
CLIENT PROJECT MANAGE	:	
CONTRACT	:	Project #EE-003186-0001-04TTO
COOLER TEMPERATURE	:	3.7
DELIVERY SERVICES	:	Fedex
EDD FORMAT	:	KAS103QC-TXT
LOGIN INITIALS	:	GN
PM	:	JO
PROJECT NAME	:	Former Griffiss Air Force Base, AOC 9
QC LEVEL	:	IV
REGULATORY LIST	:	NYSDEC Category B
REPORT INSTRUCTIONS	:	Send HC & CD.
SDG ID	:	
SDG STATUS	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SF6628-1	AOC9-TB1092512	25-SEP-12 10:45	27-SEP-12			16-OCT-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260OLM-S	09-OCT-12	40mL Vial+HCl		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SF6628-2	AOC9-SW01PM092512	25-SEP-12 14:05	27-SEP-12			16-OCT-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260OLM-S	09-OCT-12	40mL Vial+HCl		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SF6628-3	AOC9-SW02PM092512	25-SEP-12 13:55	27-SEP-12			16-OCT-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260OLM-S	09-OCT-12	40mL Vial+HCl		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SF6628-4	AOC9-SW03PM092512	25-SEP-12 13:40	27-SEP-12			16-OCT-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260OLM-S	09-OCT-12	40mL Vial+HCl		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SF6628-5	AOC9-MW06PM092512	25-SEP-12 16:50	27-SEP-12			16-OCT-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260OLM-S	09-OCT-12	40mL Vial+HCl		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SF6628-6	AOC9-MW17PM092612	26-SEP-12 09:45	27-SEP-12			16-OCT-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260OLM-S	10-OCT-12	40mL Vial+HCl		**MS/MSD**

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SF6628-7	AOC9-MW15PM092612	26-SEP-12 11:00	27-SEP-12			16-OCT-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260OLM-S	10-OCT-12	40mL Vial+HCl		

09-27-12

0000008

Login Number: SF6628 **Quote/Incoming:** ENGRF

Account: ENE001 NoWeb

Ecology and Environment, Inc.

Project: ENEGFS

Former Griffiss Air Force Base, AOC 9

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SF6628-8	AOC9-MW14PM092612	26-SEP-12 13:20	27-SEP-12			16-OCT-12	

Matrix		*Product*	*Hold Date (shortest)*	*Bottle Type*	*Bottle Count*	*Comments*
Aqueous	S	SW8260OLM-S	10-OCT-12	40mL Vial+HCl		

SF6628-9	AOC9-MW19PM092612	26-SEP-12 16:10	27-SEP-12			16-OCT-12	

Matrix		*Product*	*Hold Date (shortest)*	*Bottle Type*	*Bottle Count*	*Comments*
Aqueous	S	SW8260OLM-S	10-OCT-12	40mL Vial+HCl		

SF6628-10	AOC9-MW19/DPM092612	26-SEP-12 16:10	27-SEP-12			16-OCT-12	

Matrix		*Product*	*Hold Date (shortest)*	*Bottle Type*	*Bottle Count*	*Comments*
Aqueous	S	SW8260OLM-S	10-OCT-12	40mL Vial+HCl		

Total Samples: ***10*** ***Total Analyses:*** ***10***

09-27-12

MMM 10-17-12

00000089

SAMPLE DATA SUMMARY PACKAGE

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-1
Client ID: AOC9-TB1092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2064.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	UC	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Tel:(207) 874-2400 Fax:(207) 775-4029

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-1
Client ID: AOC9-TB1092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2064.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		103.	%					
Toluene-d8		102.	%					
P-Bromofluorobenzene		96.3	%					
Dibromofluoromethane		109.	%					

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P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-2
Client ID: AOC9-SW01PM092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2071.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	UC	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-2
Client ID: AOC9-SW01PM092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2071.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		106.	%					
Toluene-d8		102.	%					
P-Bromofluorobenzene		95.1	%					
Dibromofluoromethane		109.	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-3
Client ID: AOC9-SW02PM092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2072.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	UC	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	J	2.4	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-3
Client ID: AOC9-SW02PM092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2072.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		107.	%					
Toluene-d8		102.	%					
P-Bromofluorobenzene		94.4	%					
Dibromofluoromethane		110.	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-4
Client ID: AOC9-SW03PM092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2073.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	UC	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-4
Client ID: AOC9-SW03PM092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2073.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		106.	%					
Toluene-d8		104.	%					
P-Bromofluorobenzene		96.8	%					
Dibromofluoromethane		110.	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-5
Client ID: AOC9-MW06PM092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2074.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	UC	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		1.4	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-5
Client ID: AOC9-MW06PM092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2074.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		108.	%					
Toluene-d8		101.	%					
P-Bromofluorobenzene		94.9	%					
Dibromofluoromethane		110.	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-6
Client ID: AOC9-MW17PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2076.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UMM	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	MM	2.5	ug/L	1	2	2.0	0.25	1.0
Bromomethane	UC	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	UMM	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	J	0.62	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		5.2	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene		1.6	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		19.	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	UMM	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene		2.2	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-6
Client ID: AOC9-MW17PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2076.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	EMM	330	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.7	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		22.	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		91.	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		104.	%					
Toluene-d8		104.	%					
P-Bromofluorobenzene		96.6	%					
Dibromofluoromethane		105.	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-6DL
Client ID: AOC9-MW17PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2070.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UMM	10.	ug/L	5	2	10.	1.2	5.0
Chloromethane	U	10.	ug/L	5	2	10.	1.8	5.0
Vinyl Chloride	UMM	10.	ug/L	5	2	10.	1.2	5.0
Bromomethane	UC	10.	ug/L	5	2	10.	2.4	5.0
Chloroethane	U	10.	ug/L	5	2	10.	2.8	5.0
Trichlorofluoromethane	U	10.	ug/L	5	2	10.	1.2	5.0
1,1-Dichloroethene	U	5.0	ug/L	5	1	5.0	1.8	2.5
Freon-113	UMM	5.0	ug/L	5	1	5.0	1.6	2.5
Acetone	U	25.	ug/L	5	5	25.	11.	12.
Carbon Disulfide	U	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl Acetate	U	5.0	ug/L	5	1	5.0	2.6	3.8
Methylene Chloride	U	25.	ug/L	5	5	25.	5.6	12.
trans-1,2-Dichloroethene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl tert-butyl Ether	U	5.0	ug/L	5	1	5.0	1.8	2.5
1,1-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
cis-1,2-Dichloroethene	J	3.6	ug/L	5	1	5.0	1.0	2.5
2-Butanone	U	25.	ug/L	5	5	25.	6.6	12.
Chloroform	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,1,1-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Cyclohexane	U	5.0	ug/L	5	1	5.0	1.6	2.5
Carbon Tetrachloride	U	5.0	ug/L	5	1	5.0	1.1	2.5
Benzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
1,2-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Trichloroethene		16.	ug/L	5	1	5.0	1.4	2.5
Methylcyclohexane	UMM	5.0	ug/L	5	1	5.0	1.5	2.5
1,2-Dichloropropane	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromodichloromethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
cis-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	0.95	2.5
4-Methyl-2-Pentanone	UL	25.	ug/L	5	5	25.	6.6	12.
Toluene	U	5.0	ug/L	5	1	5.0	1.4	2.5
trans-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,1,2-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
Tetrachloroethene	J	2.0	ug/L	5	1	5.0	2.0	2.5
2-Hexanone	UL	25.	ug/L	5	5	25.	8.5	12.
Dibromochloromethane	U	5.0	ug/L	5	1	5.0	1.5	2.5

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-6DL
Client ID: AOC9-MW17PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2070.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	5.0	ug/L	5	1	5.0	1.1	2.5
Chlorobenzene	MM	300	ug/L	5	1	5.0	1.1	2.5
Ethylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
M+P-Xylenes	U	10.	ug/L	5	2	10.	3.0	5.0
o-Xylene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Styrene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromoform	UL	5.0	ug/L	5	1	5.0	1.2	2.5
Isopropylbenzene	U	5.0	ug/L	5	1	5.0	1.2	2.5
1,1,2,2-Tetrachloroethane	U	5.0	ug/L	5	1	5.0	1.9	2.5
1,3-Dichlorobenzene	J	1.4	ug/L	5	1	5.0	1.3	2.5
1,4-Dichlorobenzene		19.	ug/L	5	1	5.0	1.2	2.5
1,2-Dichlorobenzene		73.	ug/L	5	1	5.0	0.75	2.5
1,2-Dibromo-3-Chloropropane	U	5.0	ug/L	5	1	5.0	2.5	2.5
1,2,4-Trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.8	2.5
bromochloromethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,4-Dioxane	UC	500	ug/L	5	100	500	44.	250
1,2,3-trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.4	2.5
1,3,5-Trimethylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,2,4-Trimethylbenzene	U	5.0	ug/L	5	1	5.0	0.95	2.5
4-Chlorotoluene	U	5.0	ug/L	5	1	5.0	0.95	2.5
n-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.2	2.5
n-Propylbenzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
Naphthalene	U	5.0	ug/L	5	1	5.0	1.5	2.5
p-Isopropyltoluene	U	5.0	ug/L	5	1	5.0	1.2	2.5
sec-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
tert-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,2-Dichloroethane-d4		103.	%					
Toluene-d8		99.2	%					
P-Bromofluorobenzene		94.6	%					
Dibromofluoromethane		106.	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-7
Client ID: AOC9-MW15PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2111.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride		2.5	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	J	0.65	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	J	0.67	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene		2.8	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	J	0.34	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-7
Client ID: AOC9-MW15PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2111.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	E	290	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	L	2.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.8	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		19.	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		31.	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	UC	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	J	0.23	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene		1.5	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	J	0.53	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		101.	%					
Toluene-d8		101.	%					
P-Bromofluorobenzene		97.5	%					
Dibromofluoromethane		99.5	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-7DL
Client ID: AOC9-MW15PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2135.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 04-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114400

Analysis Date: 04-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	8.0	ug/L	4	2	8.0	0.96	4.0
Chloromethane	U	8.0	ug/L	4	2	8.0	1.4	4.0
Vinyl Chloride	J	2.2	ug/L	4	2	8.0	1.0	4.0
Bromomethane	U	8.0	ug/L	4	2	8.0	2.0	4.0
Chloroethane	U	8.0	ug/L	4	2	8.0	2.2	4.0
Trichlorofluoromethane	U	8.0	ug/L	4	2	8.0	0.96	4.0
1,1-Dichloroethene	U	4.0	ug/L	4	1	4.0	1.4	2.0
Freon-113	U	4.0	ug/L	4	1	4.0	1.2	2.0
Acetone	U	20.	ug/L	4	5	20.	8.8	10.
Carbon Disulfide	U	4.0	ug/L	4	1	4.0	1.0	2.0
Methyl Acetate	U	4.0	ug/L	4	1	4.0	2.1	3.0
Methylene Chloride	U	20.	ug/L	4	5	20.	4.5	10.
trans-1,2-Dichloroethene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Methyl tert-butyl Ether	U	4.0	ug/L	4	1	4.0	1.4	2.0
1,1-Dichloroethane	U	4.0	ug/L	4	1	4.0	0.84	2.0
cis-1,2-Dichloroethene	U	4.0	ug/L	4	1	4.0	0.84	2.0
2-Butanone	U	20.	ug/L	4	5	20.	5.2	10.
Chloroform	U	4.0	ug/L	4	1	4.0	1.3	2.0
1,1,1-Trichloroethane	U	4.0	ug/L	4	1	4.0	0.80	2.0
Cyclohexane	U	4.0	ug/L	4	1	4.0	1.2	2.0
Carbon Tetrachloride	U	4.0	ug/L	4	1	4.0	0.88	2.0
Benzene	J	2.2	ug/L	4	1	4.0	1.0	2.0
1,2-Dichloroethane	U	4.0	ug/L	4	1	4.0	0.80	2.0
Trichloroethene	U	4.0	ug/L	4	1	4.0	1.1	2.0
Methylcyclohexane	U	4.0	ug/L	4	1	4.0	1.2	2.0
1,2-Dichloropropane	U	4.0	ug/L	4	1	4.0	1.0	2.0
Bromodichloromethane	U	4.0	ug/L	4	1	4.0	1.3	2.0
cis-1,3-Dichloropropene	U	4.0	ug/L	4	1	4.0	0.76	2.0
4-Methyl-2-Pentanone	UL	20.	ug/L	4	5	20.	5.3	10.
Toluene	U	4.0	ug/L	4	1	4.0	1.1	2.0
trans-1,3-Dichloropropene	U	4.0	ug/L	4	1	4.0	0.80	2.0
1,1,2-Trichloroethane	U	4.0	ug/L	4	1	4.0	1.3	2.0
Tetrachloroethene	U	4.0	ug/L	4	1	4.0	1.6	2.0
2-Hexanone	UL	20.	ug/L	4	5	20.	6.8	10.
Dibromochloromethane	U	4.0	ug/L	4	1	4.0	1.2	2.0

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-7DL
Client ID: AOC9-MW15PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2135.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 04-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114400

Analysis Date: 04-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	4.0	ug/L	4	1	4.0	0.88	2.0
Chlorobenzene		290	ug/L	4	1	4.0	0.88	2.0
Ethylbenzene	U	4.0	ug/L	4	1	4.0	0.84	2.0
M+P-Xylenes	U	8.0	ug/L	4	2	8.0	2.4	4.0
o-Xylene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Styrene	U	4.0	ug/L	4	1	4.0	0.92	2.0
Bromoform	UCL	4.0	ug/L	4	1	4.0	0.92	2.0
Isopropylbenzene	J	1.3	ug/L	4	1	4.0	0.92	2.0
1,1,2,2-Tetrachloroethane	U	4.0	ug/L	4	1	4.0	1.5	2.0
1,3-Dichlorobenzene	J	1.4	ug/L	4	1	4.0	1.0	2.0
1,4-Dichlorobenzene		17.	ug/L	4	1	4.0	0.96	2.0
1,2-Dichlorobenzene		26.	ug/L	4	1	4.0	0.60	2.0
1,2-Dibromo-3-Chloropropane	UC	4.0	ug/L	4	1	4.0	2.0	2.0
1,2,4-Trichlorobenzene	U	4.0	ug/L	4	1	4.0	1.5	2.0
bromochloromethane	U	4.0	ug/L	4	1	4.0	0.84	2.0
1,4-Dioxane	UC	400	ug/L	4	100	400	35.	200
1,2,3-trichlorobenzene	U	4.0	ug/L	4	1	4.0	1.1	2.0
1,3,5-Trimethylbenzene	U	4.0	ug/L	4	1	4.0	0.80	2.0
1,2,4-Trimethylbenzene	U	4.0	ug/L	4	1	4.0	0.76	2.0
4-Chlorotoluene	U	4.0	ug/L	4	1	4.0	0.76	2.0
n-Butylbenzene	U	4.0	ug/L	4	1	4.0	0.92	2.0
n-Propylbenzene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Naphthalene	UC	4.0	ug/L	4	1	4.0	1.2	2.0
p-Isopropyltoluene	U	4.0	ug/L	4	1	4.0	1.0	2.0
sec-Butylbenzene	J	0.94	ug/L	4	1	4.0	0.84	2.0
tert-Butylbenzene	U	4.0	ug/L	4	1	4.0	1.2	2.0
1,2-Dichloroethane-d4		104.	%					
Toluene-d8		102.	%					
P-Bromofluorobenzene		94.3	%					
Dibromofluoromethane		106.	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-8
Client ID: AOC9-MW14PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2112.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	J	0.83	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		2.4	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	J	0.55	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.94	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		1.2	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane		1.3	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-8
Client ID: AOC9-MW14PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2112.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene		190	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	JL	0.37	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	JL	0.93	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.3	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		21.	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		24.	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	UC	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	J	0.46	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene		1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene		1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	J	0.32	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		101.	%					
Toluene-d8		101.	%					
P-Bromofluorobenzene		96.3	%					
Dibromofluoromethane		98.3	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-9
Client ID: AOC9-MW19PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2113.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		1.4	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	J	0.30	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-9
Client ID: AOC9-MW19PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2113.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene		31.	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	UL	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		4.4	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		5.4	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	UC	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		103.	%					
Toluene-d8		101.	%					
P-Bromofluorobenzene		94.2	%					
Dibromofluoromethane		101.	%					

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-10
Client ID: AOC9-MW19/DPM0926
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2114.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		1.8	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.28	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	J	0.35	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-10
Client ID: AOC9-MW19/DPM0926
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2114.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene		38.	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	UL	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		5.3	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		6.8	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	UC	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		106.	%					
Toluene-d8		102.	%					
P-Bromofluorobenzene		97.4	%					
Dibromofluoromethane		105.	%					

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VOLATILES DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Former Griffiss Air Force Base, AOC 9 **Matrix:** AQ
Lab Code: KAS **SDG:** SF6628

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
AOC9-TB1092512	SF6628-1		96.3		109.		103.		102.	
AOC9-MW19/DPM092612	SF6628-10		97.4		105.		106.		102.	
AOC9-SW01PM092512	SF6628-2		95.1		109.		106.		102.	
AOC9-SW02PM092512	SF6628-3		94.4		110.		107.		102.	
AOC9-SW03PM092512	SF6628-4		96.8		110.		106.		104.	
AOC9-MW06PM092512	SF6628-5		94.9		110.		108.		101.	
AOC9-MW17PM092612	SF6628-6		96.6		105.		104.		104.	
AOC9-MW17PM092612	SF6628-6DL		94.6		106.		103.		99.2	
AOC9-MW15PM092612	SF6628-7		97.5		99.5		101.		101.	
AOC9-MW15PM092612	SF6628-7DL		94.3		106.		104.		102.	
AOC9-MW14PM092612	SF6628-8		96.3		98.3		101.		101.	
AOC9-MW19PM092612	SF6628-9		94.2		101.		103.		101.	
Laboratory Control S	WG114264-1		102.		104.		102.		102.	
Method Blank Sample	WG114264-2		94.8		106.		100.		101.	
Matrix Spike	WG114264-5		99.3		103.		103.		102.	
Matrix Spike Duplica	WG114264-6		102.		101.		103.		102.	
Laboratory Control S	WG114326-1		96.8		102.		100.		99.6	
Method Blank Sample	WG114326-2		94.8		105.		104.		99.8	
Laboratory Control S	WG114400-1		102.		101.		100.		103.	
Method Blank Sample	WG114400-2		98.7		104.		104.		103.	

		QC Limits
DBF	DIBROMOFLUOROMETHANE	68-128
BFB	P-BROMOFLUOROBENZENE	56-133
TOL	TOLUENE-D8	65-128
DCA	1,2-DICHLOROETHANE-D4	67-135

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : D2063.D
Instrument ID : GCMS-D
Heated Purge : No

SDG : SF6628
Lab Sample ID : WG114264-2
Date Analyzed : 02-OCT-12
Time Analyzed : 12:42

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG114264-1	D2060.D	10/02/12	11:06
AOC9-TB1092512	SF6628-1	D2064.D	10/02/12	13:26
AOC9-MW17PM092612	SF6628-6DL	D2070.D	10/02/12	16:13
AOC9-SW01PM092512	SF6628-2	D2071.D	10/02/12	16:41
AOC9-SW02PM092512	SF6628-3	D2072.D	10/02/12	17:09
AOC9-SW03PM092512	SF6628-4	D2073.D	10/02/12	17:37
AOC9-MW06PM092512	SF6628-5	D2074.D	10/02/12	18:05
AOC9-MW17PM092612	SF6628-6	D2076.D	10/02/12	19:01
Matrix Spike	WG114264-5	D2079.D	10/02/12	20:28
Matrix Spike Duplica	WG114264-6	D2080.D	10/02/12	20:57

Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : D2103.D
Instrument ID : GCMS-D
Heated Purge : No

SDG : SF6628
Lab Sample ID : WG114326-2
Date Analyzed : 03-OCT-12
Time Analyzed : 12:10

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG114326-1	D2100.D	10/03/12	10:33
AOC9-MW15PM092612	SF6628-7	D2111.D	10/03/12	15:54
AOC9-MW14PM092612	SF6628-8	D2112.D	10/03/12	16:22
AOC9-MW19PM092612	SF6628-9	D2113.D	10/03/12	16:51
AOC9-MW19/DPM092612	SF6628-10	D2114.D	10/03/12	17:19

Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : D2129.D
Instrument ID : GCMS-D
Heated Purge : No

SDG : SF6628
Lab Sample ID : WG114400-2
Date Analyzed : 04-OCT-12
Time Analyzed : 14:37

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG114400-1	D2126.D	10/04/12	12:06
AOC9-MW15PM092612	SF6628-7DL	D2135.D	10/04/12	17:31

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : DB994.D
Instrument ID : GCMS-D

SDG : SF6628
Date Analyzed : 28-SEP-12
Time Analyzed : 09:48
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	25.8		
75	30.0 - 60.0% of mass 95	54.2		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	6.8		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	78.5		
175	5.0 - 9.0% of mass 174	4.6	5.92	1
176	95.0 - 101.0% of mass 174	75.6	96.26	1
177	5.0 - 9.0% of mass 176	4.3	5.68	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	WG114145-4	D1995.D	09/28/12	10:11
Initial Calibration	WG114145-6	D1996.D	09/28/12	10:56
Initial Calibration	WG114145-3	D1998.D	09/28/12	11:52
Initial Calibration	WG114145-2	D1999.D	09/28/12	12:20
Initial Calibration	WG114145-1	D2000.D	09/28/12	12:48
Initial Calibration	WG114145-5	D2001.D	09/28/12	13:32
Independent Source	WG114145-10	D2002A.D	09/28/12	14:19

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : DB996.D
Instrument ID : GCMS-D

SDG : SF6628
Date Analyzed : 02-OCT-12
Time Analyzed : 10:02
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	25.5		
75	30.0 - 60.0% of mass 95	46.0		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	6.9		
173	Less than 2.0% of mass 174	0.5	0.71	1
174	Greater than 50.0% of mass 95	73.8		
175	5.0 - 9.0% of mass 174	5.5	7.41	1
176	95.0 - 101.0% of mass 174	71.7	97.07	1
177	5.0 - 9.0% of mass 176	4.7	6.52	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	WG114264-8	D2059.D	10/02/12	10:24
Laboratory Control S	WG114264-1	D2060.D	10/02/12	11:06
Method Blank Sample	WG114264-2	D2063.D	10/02/12	12:42
AOC9-TB1092512	SF6628-1	D2064.D	10/02/12	13:26
AOC9-MW17PM092612	SF6628-6DL	D2070.D	10/02/12	16:13
AOC9-SW01PM092512	SF6628-2	D2071.D	10/02/12	16:41
AOC9-SW02PM092512	SF6628-3	D2072.D	10/02/12	17:09
AOC9-SW03PM092512	SF6628-4	D2073.D	10/02/12	17:37
AOC9-MW06PM092512	SF6628-5	D2074.D	10/02/12	18:05
AOC9-MW17PM092612	SF6628-6	D2076.D	10/02/12	19:01
Matrix Spike	WG114264-5	D2079.D	10/02/12	20:28
Matrix Spike Duplica	WG114264-6	D2080.D	10/02/12	20:57

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : DB997.D
Instrument ID : GCMS-D

SDG : SF6628
Date Analyzed : 03-OCT-12
Time Analyzed : 09:30
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	23.7		
75	30.0 - 60.0% of mass 95	50.8		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	8.5		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	81.0		
175	5.0 - 9.0% of mass 174	4.9	6.03	1
176	95.0 - 101.0% of mass 174	78.1	96.40	1
177	5.0 - 9.0% of mass 176	5.2	6.63	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	WG114326-4	D2099.D	10/03/12	09:54
Laboratory Control S	WG114326-1	D2100.D	10/03/12	10:33
Method Blank Sample	WG114326-2	D2103.D	10/03/12	12:10
AOC9-MW15PM092612	SF6628-7	D2111.D	10/03/12	15:54
AOC9-MW14PM092612	SF6628-8	D2112.D	10/03/12	16:22
AOC9-MW19PM092612	SF6628-9	D2113.D	10/03/12	16:51
AOC9-MW19/DPM092612	SF6628-10	D2114.D	10/03/12	17:19

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : DB998.D
Instrument ID : GCMS-D

SDG : SF6628
Date Analyzed : 04-OCT-12
Time Analyzed : 10:09
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	25.3		
75	30.0 - 60.0% of mass 95	47.7		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.9		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	75.4		
175	5.0 - 9.0% of mass 174	5.0	6.66	1
176	95.0 - 101.0% of mass 174	72.8	96.59	1
177	5.0 - 9.0% of mass 176	4.7	6.40	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	WG114400-4	D2124.D	10/04/12	10:33
Laboratory Control S	WG114400-1	D2126.D	10/04/12	12:06
Method Blank Sample	WG114400-2	D2129.D	10/04/12	14:37
AOC9-MW15PM092612	SF6628-7DL	D2135.D	10/04/12	17:31

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, ,
Lab ID : WG114145-4
Lab File ID : D1995.D

SDG: SF6628
Analytical Date: 09/28/12 10:11
Instrument ID: GCMS-D

		PENTAFLUOROBENZENE		1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5	
		Area #	RT #	Area #	RT #	Area #	RT #
	Std .	642678	8.08	1033687	8.74	946292	12.22
	Upper Limit	1285356	8.58	2067374	9.24	1892584	12.72
	Lower Limit	321339	7.58	516843.5	8.24	473146	11.72
Client Sample ID	Lab Sample ID						
Continuing Calibrati	WG114264-8	540714	8.09	882767	8.74	857531	12.22
Laboratory Control S	WG114264-1	552256	8.08	907258	8.74	872178	12.22
Method Blank Sample	WG114264-2	487924	8.09	836649	8.74	781453	12.22
AOC9-TB1092512	SF6628-1	470424	8.08	810023	8.74	761581	12.22
AOC9-MW17PM0926	SF6628-6DL	443907	8.09	780243	8.74	738667	12.22
AOC9-SW01PM09251	SF6628-2	424088	8.09	746253	8.74	707018	12.22
AOC9-SW02PM09251	SF6628-3	420517	8.09	743978	8.74	686482	12.22
AOC9-SW03PM09251	SF6628-4	412781	8.08	725609	8.74	696874	12.22
AOC9-MW06PM0925	SF6628-5	403142	8.08	727493	8.74	686490	12.22
AOC9-MW17PM0926	SF6628-6	412185	8.08	706717	8.74	699447	12.22
Matrix Spike	WG114264-5	488312	8.09	811338	8.74	802321	12.23
Matrix Spike Duplica	WG114264-6	498020	8.09	827059	8.74	826951	12.22
Continuing Calibrati	WG114326-4	471450	8.08	781682	8.74	760325	12.22
Laboratory Control S	WG114326-1	483213	8.09	801369	8.74	776808	12.22
Method Blank Sample	WG114326-2	414758	8.08	731978	8.74	693489	12.22
AOC9-MW15PM0926	SF6628-7	493276	8.08	836788	8.74	817023	12.22
AOC9-MW14PM0926	SF6628-8	470055	8.09	800662	8.74	776288	12.22
AOC9-MW19PM0926	SF6628-9	456387	8.08	790714	8.74	745656	12.21
AOC9-MW19/DPM09	SF6628-10	431661	8.09	747202	8.74	717514	12.22
Continuing Calibrati	WG114400-4	488985	8.08	815538	8.74	805450	12.22
Laboratory Control S	WG114400-1	508069	8.09	841819	8.74	832388	12.22
Method Blank Sample	WG114400-2	435905	8.09	753858	8.74	730880	12.22
AOC9-MW15PM0926	SF6628-7DL	409717	8.09	723886	8.74	702041	12.22

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

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
Project : Former Griffiss Air Force Base, ,
Lab ID : WG114145-4
Lab File ID : D1995.D

SDG: SF6628
Analytical Date: 09/28/12 10:11
Instrument ID: GCMS-D

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	539546		15.53	
	Upper Limit	1079092		16.03	
	Lower Limit	269773		15.03	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG114264-8	495631		15.54	
Laboratory Control S	WG114264-1	502313		15.54	
Method Blank Sample	WG114264-2	430075		15.54	
AOC9-TB1092512	SF6628-1	420945		15.54	
AOC9-MW17PM0926	SF6628-6DL	399302		15.54	
AOC9-SW01PM09251	SF6628-2	387744		15.54	
AOC9-SW02PM09251	SF6628-3	380876		15.54	
AOC9-SW03PM09251	SF6628-4	382310		15.54	
AOC9-MW06PM0925	SF6628-5	377668		15.54	
AOC9-MW17PM0926	SF6628-6	377749		15.54	
Matrix Spike	WG114264-5	456419		15.54	
Matrix Spike Duplica	WG114264-6	462714		15.54	
Continuing Calibrati	WG114326-4	452621		15.54	
Laboratory Control S	WG114326-1	451952		15.54	
Method Blank Sample	WG114326-2	389750		15.54	
AOC9-MW15PM0926	SF6628-7	452179		15.53	
AOC9-MW14PM0926	SF6628-8	436799		15.54	
AOC9-MW19PM0926	SF6628-9	420331		15.53	
AOC9-MW19/DPM09	SF6628-10	400804		15.54	
Continuing Calibrati	WG114400-4	473429		15.54	
Laboratory Control S	WG114400-1	483197		15.54	
Method Blank Sample	WG114400-2	408643		15.54	
AOC9-MW15PM0926	SF6628-7DL	385752		15.54	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

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

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 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%.

* Compound recovery 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 Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L 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 Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods 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.

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-1
Client ID: AOC9-TB1092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2064.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	UC	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Tel:(207) 874-2400 Fax:(207) 775-4029

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-1
Client ID: AOC9-TB1092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2064.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		103.	%					
Toluene-d8		102.	%					
P-Bromofluorobenzene		96.3	%					
Dibromofluoromethane		109.	%					

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Data File: \\target_server\GG\chem\gcms-d.i\D100212.b\D2064.D
Report Date: 15-Oct-2012 11:08

Katahdin Analytical Services

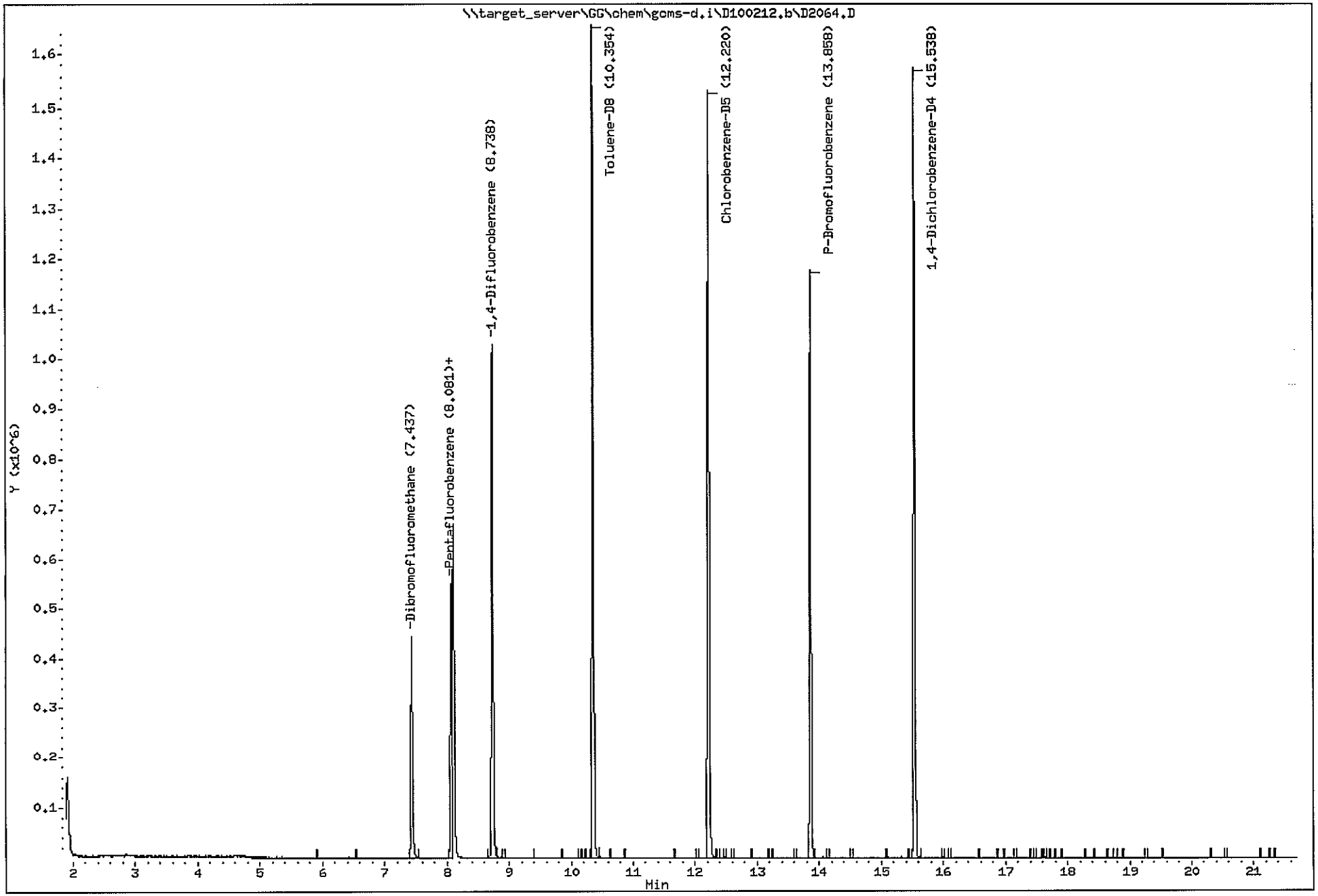
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Lab Smp Id: SF6628-1 Client Smp ID: AOC9-TB1092512
Inj Date : 02-OCT-2012 13:26 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : SF6628-1
Misc Info : WG114264,WG114145-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D100212.b\D826A10.m
Meth Date : 15-Oct-2012 11:00 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 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	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.437	7.463	(0.920)	254812	54.6997	54.7	
* 42 Pentafluorobenzene	168	8.080	8.100	(1.000)	470424	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.116	8.143	(1.004)	325401	51.7406	51.7	
* 49 1,4-Difluorobenzene	114	8.738	8.757	(1.000)	810023	50.0000		
$ 55 Toluene-D8	98	10.354	10.373	(1.185)	994928	51.0500	51.0	
* 66 Chlorobenzene-D5	117	12.220	12.240	(1.000)	761581	50.0000		
$ 76 P-Bromofluorobenzene	95	13.857	13.877	(1.586)	387824	48.1536	48.2	
* 91 1,4-Dichlorobenzene-D4	152	15.538	15.557	(1.000)	420945	50.0000		

Data File: \\target_server\GC\chem\gcms-d.i\D100212.b\D2064.D
Date : 02-OCT-2012 13:26
Client ID: AOC9-TB1092512
Instrument: gcms-d.i
Sample Info: SF6628-1



Katahdin Analytical Services 1000019

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-2
Client ID: AOC9-SW01PM092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2071.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	UC	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Tel:(207) 874-2400 Fax:(207) 775-4029

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-2
Client ID: AOC9-SW01PM092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2071.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		106.	%					
Toluene-d8		102.	%					
P-Bromofluorobenzene		95.1	%					
Dibromofluoromethane		109.	%					

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Data File: \\target_server\GG\chem\gcms-d.i\D100212.b\D2071.D
Report Date: 15-Oct-2012 11:08

Katahdin Analytical Services

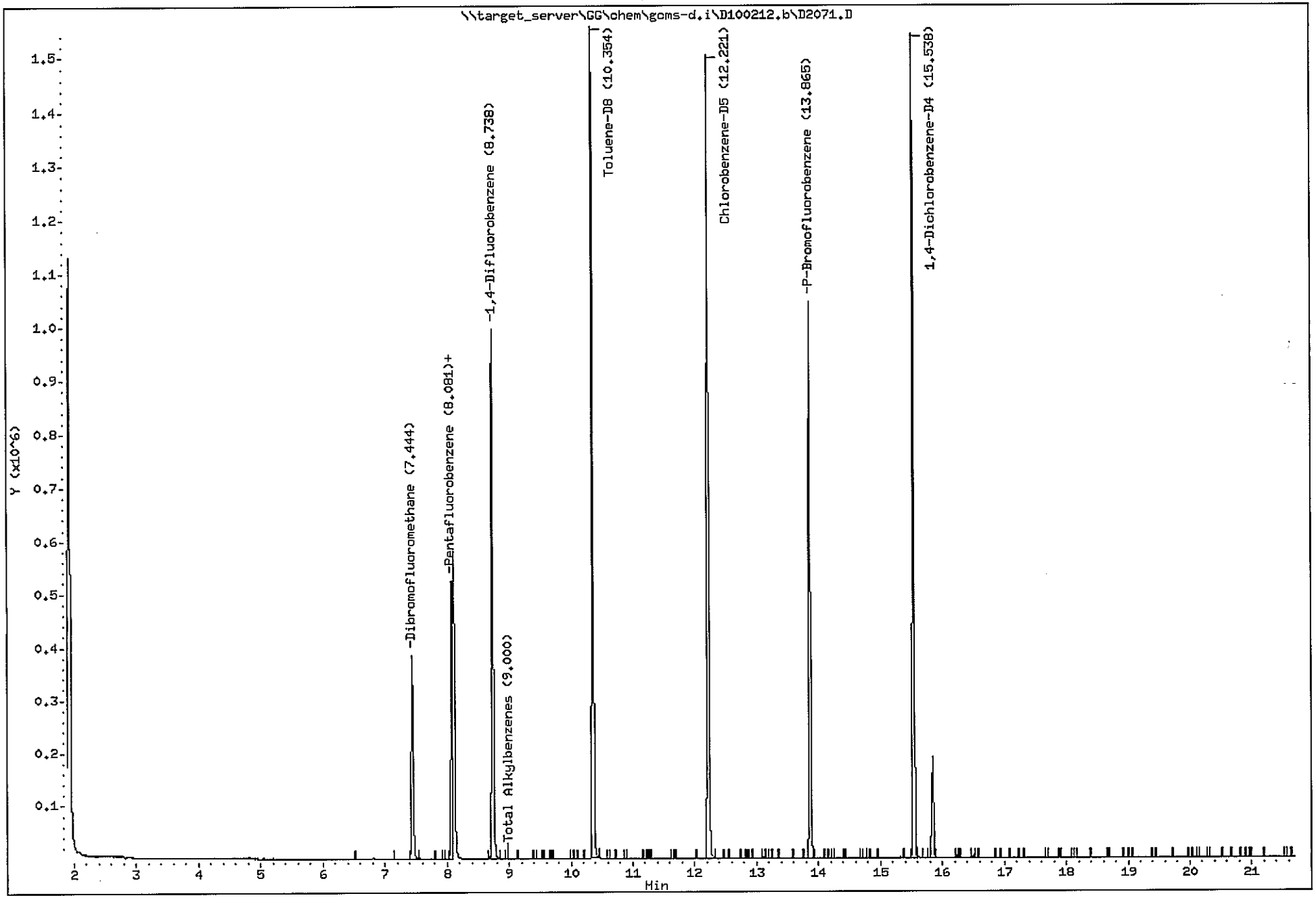
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Lab Smp Id: SF6628-2 Client Smp ID: AOC9-SW01PM092512
Inj Date : 02-OCT-2012 16:41 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : SF6628-2
Misc Info : WG114264,WG114145-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D100212.b\D826A10.m
Meth Date : 15-Oct-2012 11:00 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 13
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
$ 37 Dibromofluoromethane	113	7.444	7.463	(0.920)	229245	54.5881	54.6	
* 42 Pentafluorobenzene	168	8.087	8.100	(1.000)	424088	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.123	8.143	(1.004)	300997	53.0894	53.1	
* 49 1,4-Difluorobenzene	114	8.738	8.757	(1.000)	746253	50.0000		
$ 55 Toluene-D8	98	10.354	10.373	(1.185)	919256	51.1979	51.2	
* 66 Chlorobenzene-D5	117	12.220	12.240	(1.000)	707018	50.0000		
$ 76 P-Bromofluorobenzene	95	13.865	13.877	(1.587)	352914	47.5636	47.6	
* 91 1,4-Dichlorobenzene-D4	152	15.538	15.557	(1.000)	387744	50.0000		

Data File: \\target_server\GG\chem\goms-d.i\D100212.b\D2071.D
Date : 02-OCT-2012 16:41
Client ID: ADC9-SW01PM092512
Instrument: goms-d.i
Sample Info: SF6628-2



Katahdin Analytical Services 1000023

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-3
Client ID: AOC9-SW02PM092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2072.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	UC	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	J	2.4	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-3
Client ID: AOC9-SW02PM092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2072.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		107.	%					
Toluene-d8		102.	%					
P-Bromofluorobenzene		94.4	%					
Dibromofluoromethane		110.	%					

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Data File: \\target_server\GG\chem\gcms-d.i\D100212.b\D2072.D
Report Date: 15-Oct-2012 11:08

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D100212.b\D2072.D
Lab Smp Id: SF6628-3 Client Smp ID: AOC9-SW02PM092512
Inj Date : 02-OCT-2012 17:09 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : SF6628-3
Misc Info : WG114264,WG114145-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D100212.b\D826A10.m
Meth Date : 15-Oct-2012 11:00 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

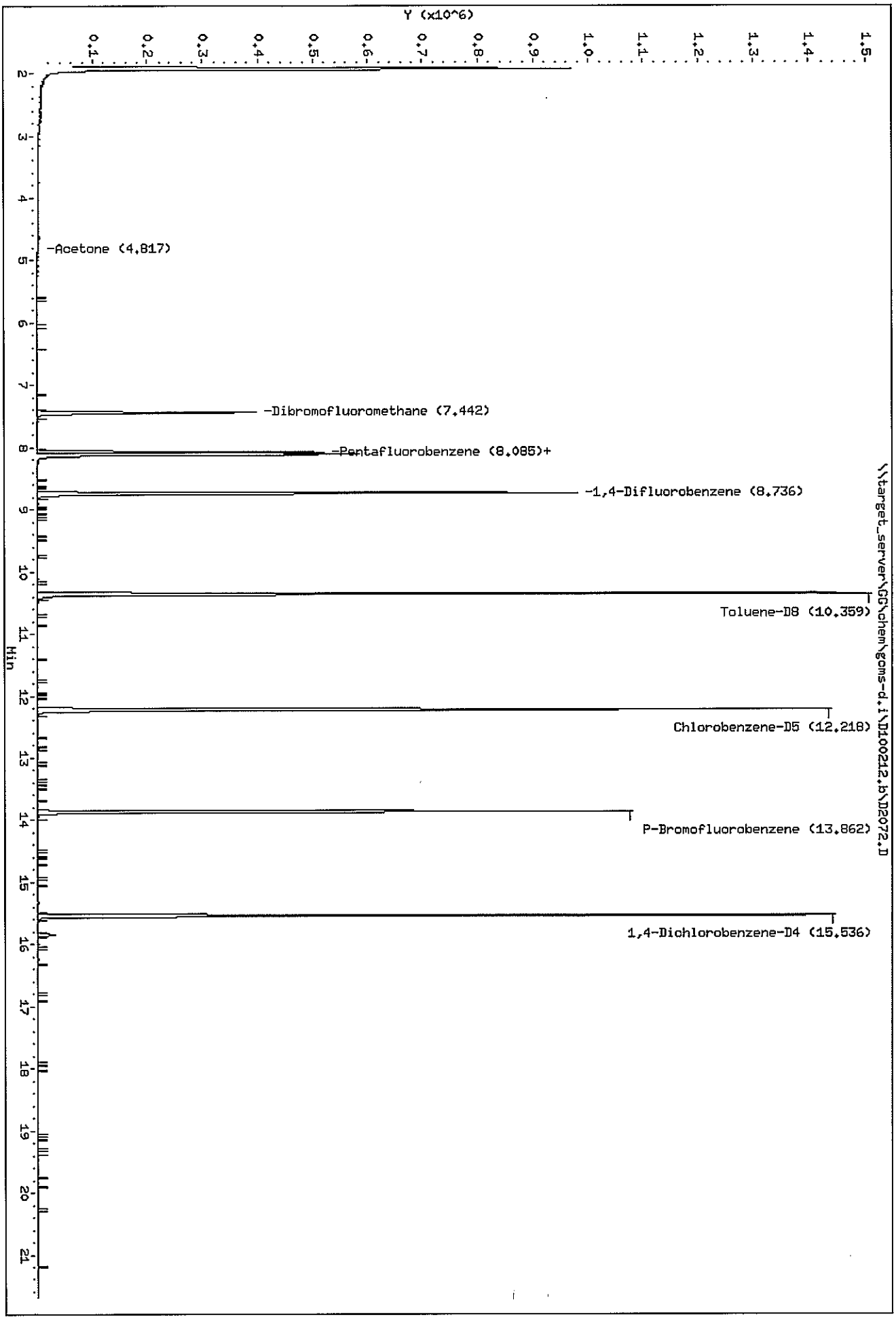
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

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
	15 Acetone	43	4.817	4.832	(0.596)	2973	2.44269	2.4(a)	
$	37 Dibromofluoromethane	113	7.441	7.463	(0.920)	229979	55.2280	55.2	
*	42 Pentafluorobenzene	168	8.085	8.100	(1.000)	420517	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.120	8.143	(1.004)	302132	53.7422	53.7	
*	49 1,4-Difluorobenzene	114	8.735	8.757	(1.000)	743978	50.0000		
$	55 Toluene-D8	98	10.358	10.373	(1.186)	909315	50.7991	50.8	
*	66 Chlorobenzene-D5	117	12.217	12.240	(1.000)	686482	50.0000		
$	76 P-Bromofluorobenzene	95	13.862	13.877	(1.587)	349067	47.1890	47.2	
*	91 1,4-Dichlorobenzene-D4	152	15.535	15.557	(1.000)	380876	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
-Acetone (4.817)
-Dibromofluoromethane (7.442)
-Pentafluorobenzene (8.085)+
-1,4-Difluorobenzene (8.736)
Toluene-D8 (10.359)
Chlorobenzene-D5 (12.218)
P-Bromofluorobenzene (13.862)
1,4-Dichlorobenzene-D4 (15.536)
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Date : 02-OCT-2012 17:09
Client ID: AOC9-SW02PH092512
Sample Info: SF6628-3
Instrument: goms-d.i

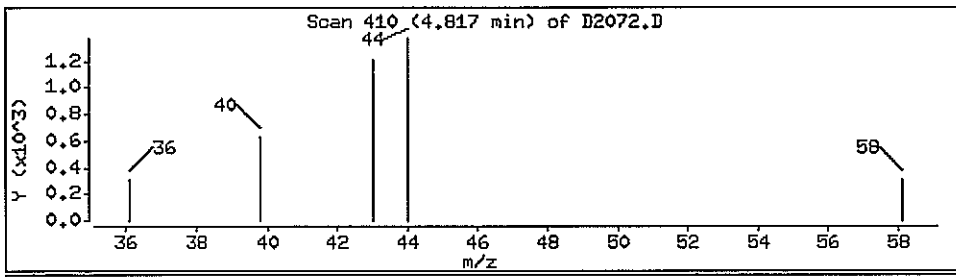
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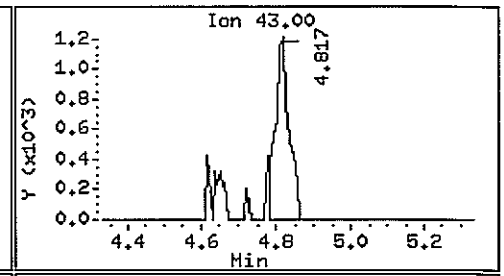
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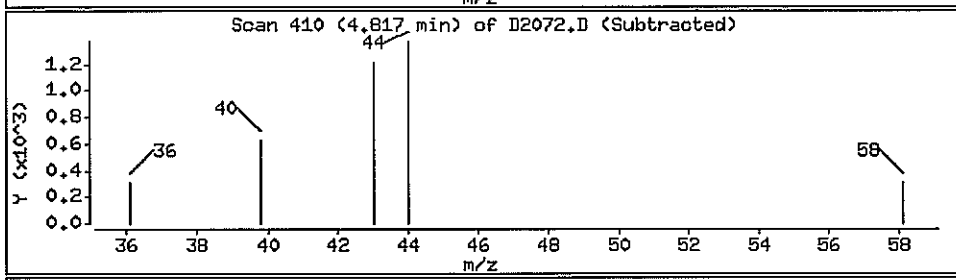
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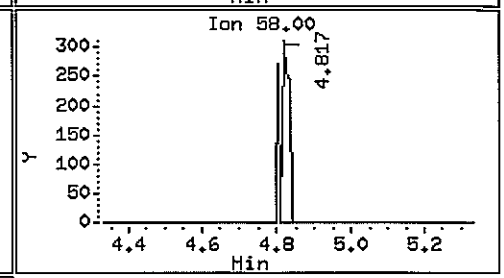
Sample Info: SF6628-3

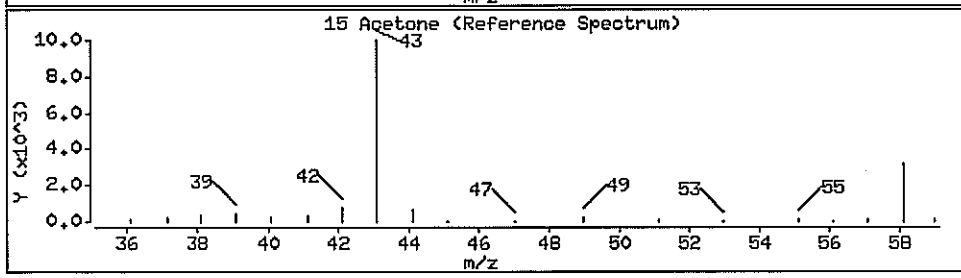
15 Acetone Concentration: 2.4 ug/l











Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-4
Client ID: AOC9-SW03PM092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2073.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	UC	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-4
Client ID: AOC9-SW03PM092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2073.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		106.	%					
Toluene-d8		104.	%					
P-Bromofluorobenzene		96.8	%					
Dibromofluoromethane		110.	%					

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Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\GG\chem\gcms-d.i\D100212.b\D2073.D
Report Date: 15-Oct-2012 11:08

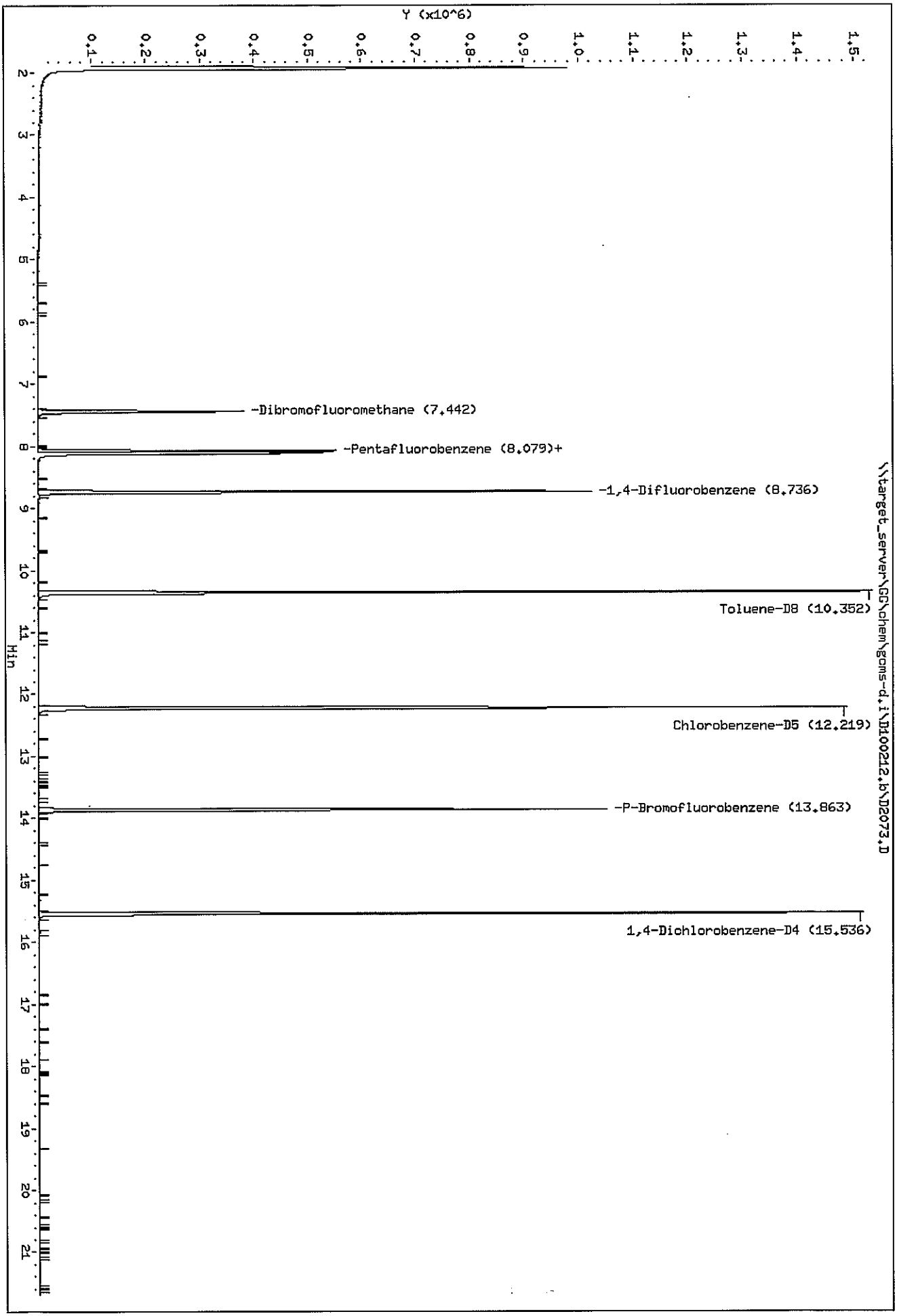
Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D100212.b\D2073.D
Lab Smp Id: SF6628-4 Client Smp ID: AOC9-SW03PM092512
Inj Date : 02-OCT-2012 17:37 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : SF6628-4
Misc Info : WG114264,WG114145-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D100212.b\D826A10.m
Meth Date : 15-Oct-2012 11:00 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 15
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
$ 37 Dibromofluoromethane	113	7.442	7.463	(0.921)	224751	54.9840	55.0	
* 42 Pentafluorobenzene	168	8.078	8.100	(1.000)	412781	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.121	8.143	(1.005)	292179	52.9458	52.9	
* 49 1,4-Difluorobenzene	114	8.736	8.757	(1.000)	725609	50.0000		
$ 55 Toluene-D8	98	10.352	10.373	(1.185)	911023	52.1829	52.2	
* 66 Chlorobenzene-D5	117	12.218	12.240	(1.000)	696874	50.0000		
$ 76 P-Bromofluorobenzene	95	13.863	13.877	(1.587)	349270	48.4117	48.4	
* 91 1,4-Dichlorobenzene-D4	152	15.536	15.557	(1.000)	382310	50.0000		


Data File: \\target_server\GC\chem\gcms-d.i\D100212.b\D2073.D
Date : 02-OCT-2012 17:37
Client ID: AOC9-SW03PM092512
Sample Info: SF6628-4
Instrument: gcms-d.i
\\target_server\GC\chem\gcms-d.i\D100212.b\D2073.D
Y (x10^6)
Min
-Dibromofluoromethane (7.442)
-Pentafluorobenzene (8.079)+
-1,4-Difluorobenzene (8.736)
Toluene-D8 (10.352)
Chlorobenzene-D5 (12.219)
-P-Bromofluorobenzene (13.863)
1,4-Dichlorobenzene-D4 (15.536)

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-5
Client ID: AOC9-MW06PM092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2074.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	UC	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		1.4	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-5
Client ID: AOC9-MW06PM092512
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2074.D

Sample Date: 25-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		108.	%					
Toluene-d8		101.	%					
P-Bromofluorobenzene		94.9	%					
Dibromofluoromethane		110.	%					

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Data File: \\target_server\GG\chem\gcms-d.i\D100212.b\D2074.D
Report Date: 15-Oct-2012 11:08

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D100212.b\D2074.D
Lab Smp Id: SF6628-5 Client Smp ID: AOC9-MW06PM092512
Inj Date : 02-OCT-2012 18:05 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : SF6628-5
Misc Info : WG114264,WG114145-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D100212.b\D826A10.m
Meth Date : 15-Oct-2012 11:00 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

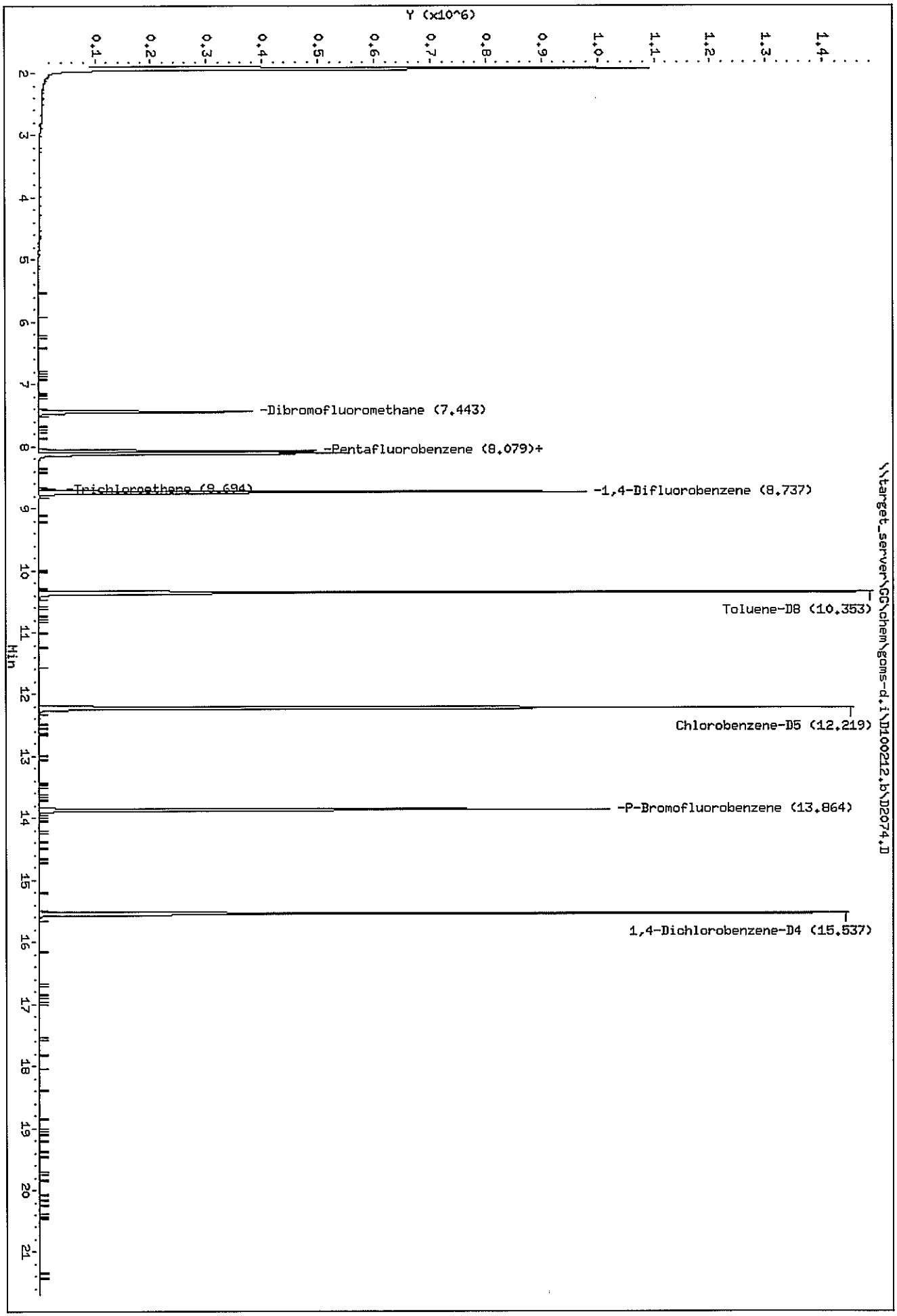
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

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
$	37 Dibromofluoromethane	113	7.442	7.463	(0.921)	219687	55.0301	55.0	
*	42 Pentafluorobenzene	168	8.079	8.100	(1.000)	403142	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.121	8.143	(1.005)	291356	54.0590	54.0	
	48 Trichloroethene	95	8.693	8.715	(0.995)	7875	1.45295	1.4(H)	
*	49 1,4-Difluorobenzene	114	8.736	8.757	(1.000)	727493	50.0000		
$	55 Toluene-D8	98	10.352	10.373	(1.185)	883688	50.4861	50.5	
*	66 Chlorobenzene-D5	117	12.218	12.240	(1.000)	686490	50.0000		
$	76 P-Bromofluorobenzene	95	13.863	13.877	(1.587)	343234	47.4518	47.4	
*	91 1,4-Dichlorobenzene-D4	152	15.536	15.557	(1.000)	377668	50.0000		

QC Flag Legend

H - Operator selected an alternate compound hit.


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
-Dibromofluoromethane (7.443)
-Pentafluorobenzene (8.079)+
-Trichloroethene (8.694)
-1,4-Difluorobenzene (8.737)
Toluene-D8 (10.353)
Chlorobenzene-D5 (12.219)
-P-Bromofluorobenzene (13.864)
1,4-Dichlorobenzene-D4 (15.537)
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Date : 02-OCT-2012 18:05
Client ID: ADC9-HW06PH092512
Sample Info: SF6628-5
Instrument: gcms-d.i

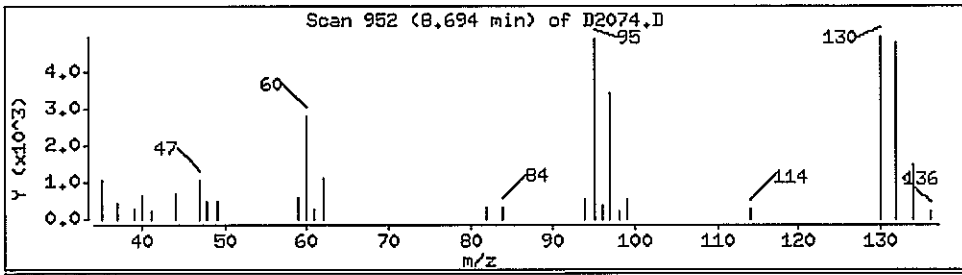
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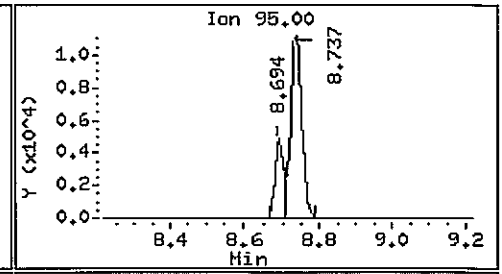
Date : 02-OCT-2012 18:05

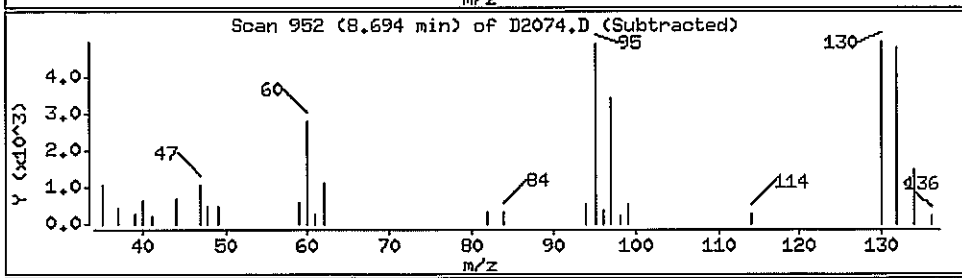
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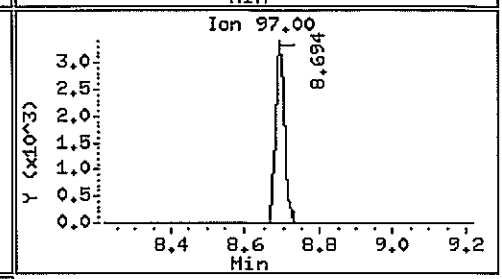
Sample Info: SF6628-5

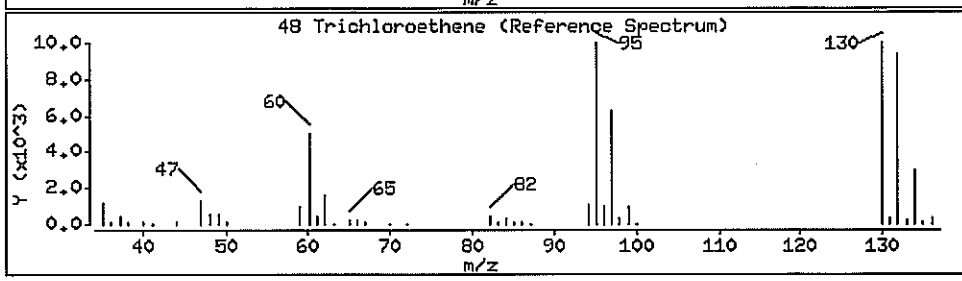
48 Trichloroethene Concentration: 1.4 ug/l











Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-6
Client ID: AOC9-MW17PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2076.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UMM	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	MM	2.5	ug/L	1	2	2.0	0.25	1.0
Bromomethane	UC	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	UMM	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	J	0.62	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		5.2	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene		1.6	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		19.	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	UMM	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene		2.2	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-6
Client ID: AOC9-MW17PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2076.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	EMM	330	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.7	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		22.	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		91.	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		104.	%					
Toluene-d8		104.	%					
P-Bromofluorobenzene		96.6	%					
Dibromofluoromethane		105.	%					

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\gcms-d.i\D100212.b\D2076.D
Report Date: 15-Oct-2012 11:08

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D100212.b\D2076.D
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Inj Date : 02-OCT-2012 19:01 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
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Misc Info : WG114264,WG114145-4
Comment : SW846 5030
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Meth Date : 15-Oct-2012 11:00 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

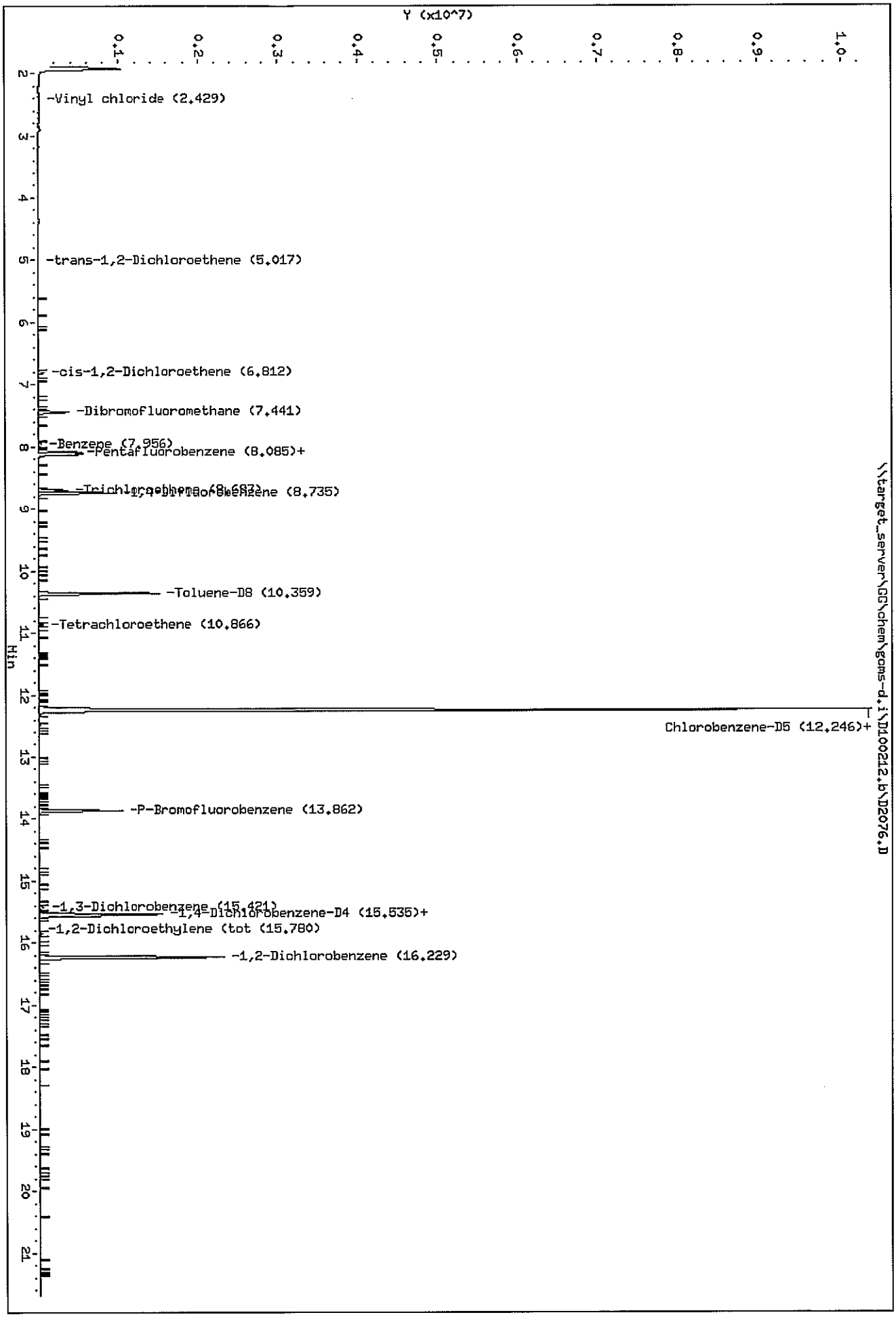
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	3 Vinyl chloride	62	2.429	2.444	(0.300)	13822	2.47546	2.5	
	17 trans-1,2-Dichloroethene	96	5.017	5.039	(0.621)	2779	0.62269	0.62(a)	
	29 cis-1,2-Dichloroethene	96	6.804	6.827	(0.842)	23899	5.20779	5.2	
M	30 1,2-Dichloroethylene (total)	96				26678	5.83048	5.8	
$	37 Dibromofluoromethane	113	7.441	7.463	(0.920)	215118	52.7034	52.7	
	41 Benzene	78	7.956	7.978	(0.910)	30622	1.59667	1.6(M)	M10
*	42 Pentafluorobenzene	168	8.084	8.100	(1.000)	412185	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.120	8.143	(1.004)	287700	52.2095	52.2	
	48 Trichloroethene	95	8.692	8.715	(0.994)	101853	19.3445	19.3(H)	
*	49 1,4-Difluorobenzene	114	8.742	8.757	(1.000)	706717	50.0000		
$	55 Toluene-D8	98	10.358	10.373	(1.185)	888154	52.2329	52.2	
	59 Tetrachloroethene	164	10.866	10.881	(0.889)	9310	2.16889	2.2	
*	66 Chlorobenzene-D5	117	12.224	12.240	(1.000)	699447	50.0000		
	67 Chlorobenzene	112	12.246	12.261	(1.002)	4561120	331.543	332(A)	
$	76 P-Bromofluorobenzene	95	13.862	13.877	(1.586)	339586	48.3277	48.3	
	90 1,3-Dichlorobenzene	146	15.420	15.443	(0.993)	17345	1.68734	1.7	
*	91 1,4-Dichlorobenzene-D4	152	15.535	15.557	(1.000)	377749	50.0000		
	92 1,4-Dichlorobenzene	146	15.556	15.579	(1.001)	248455	21.8234	21.8	
	95 1,2-Dichlorobenzene	146	16.228	16.251	(1.045)	886798	91.3550	91.4	

Wak 10-15-12

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).



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Sample Info: SF6628-6

Instrument: goms-d.i

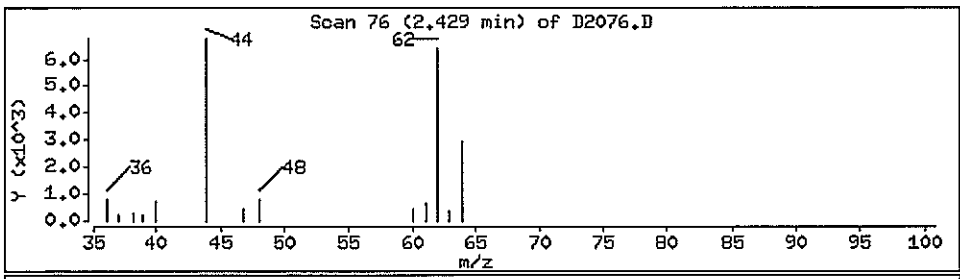
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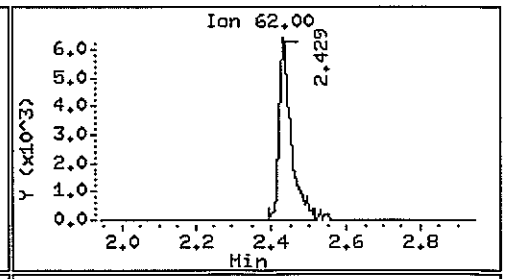
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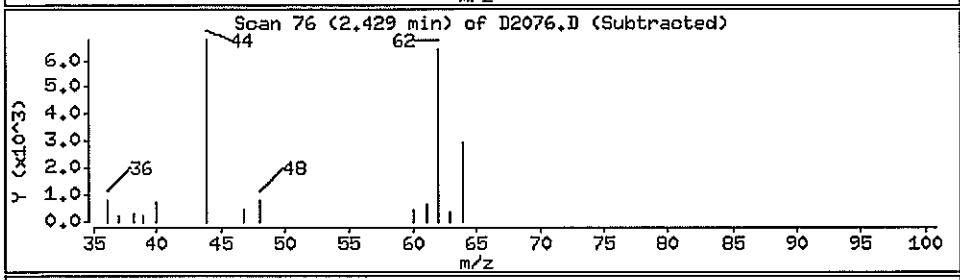
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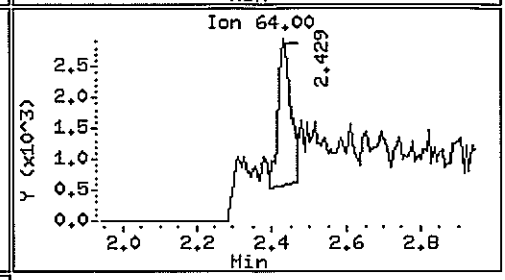
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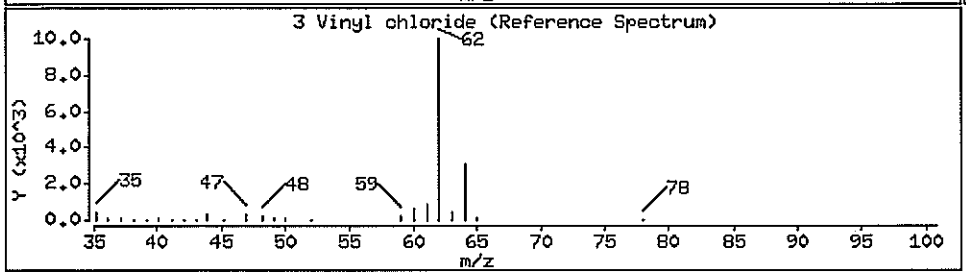
3 Vinyl chloride Concentration: 2.5 ug/l



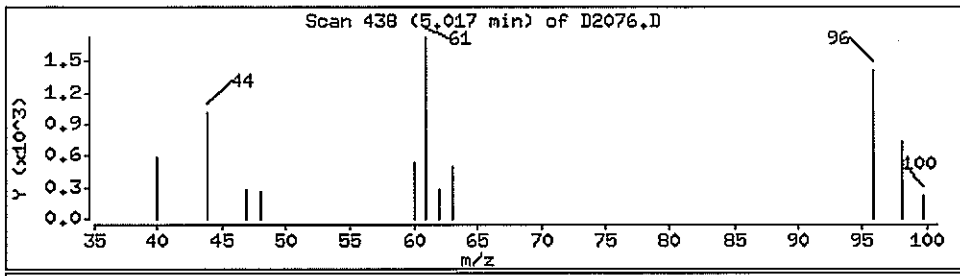


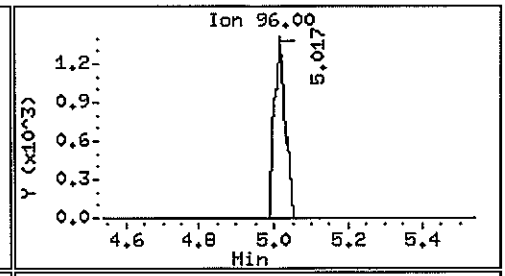


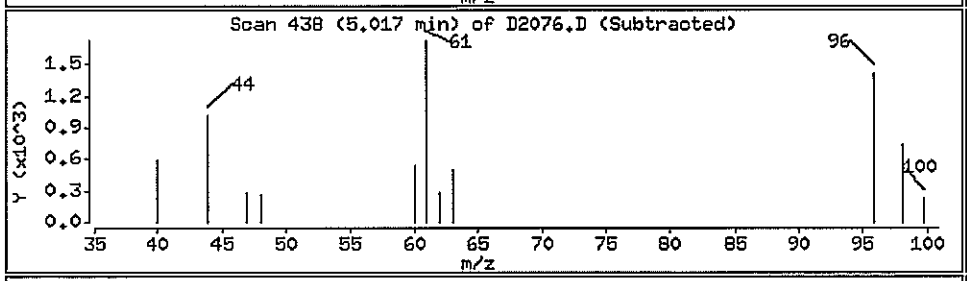


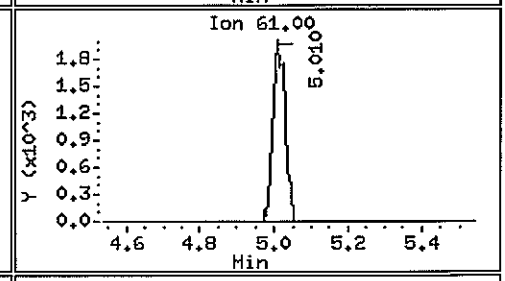


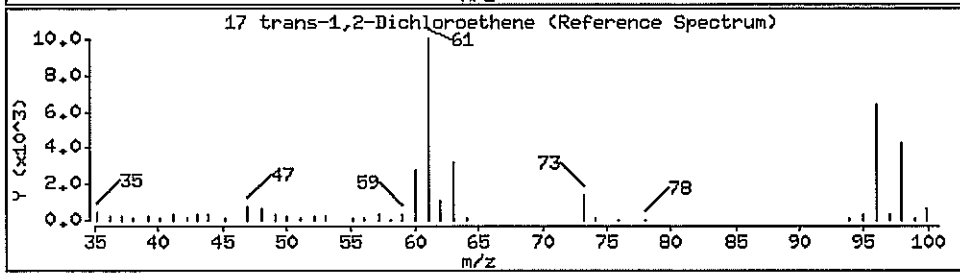
17 trans-1,2-Dichloroethene Concentration: 0.62 ug/l

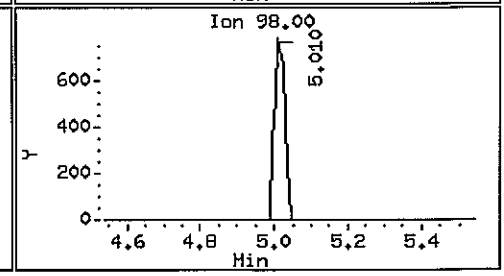












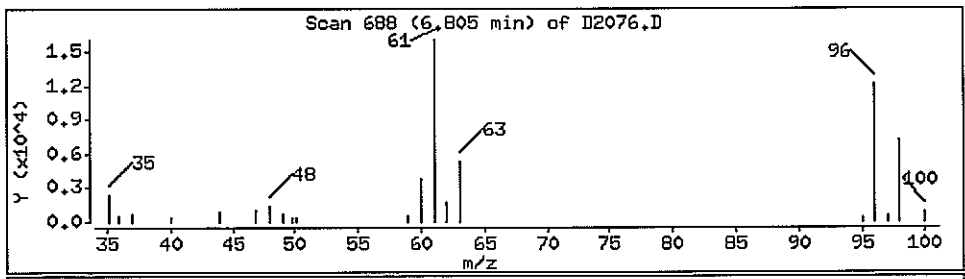
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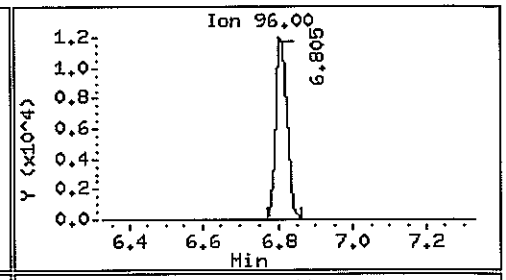
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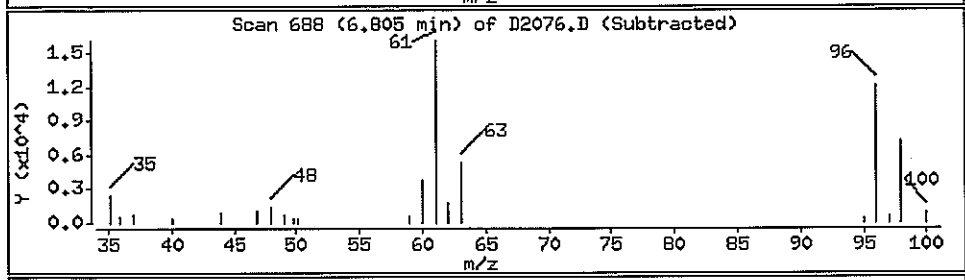
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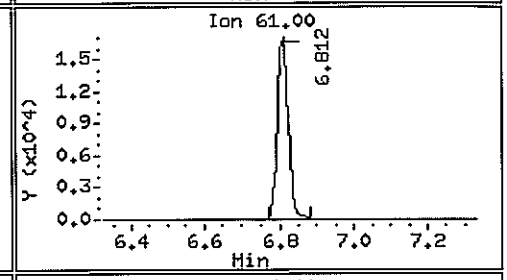
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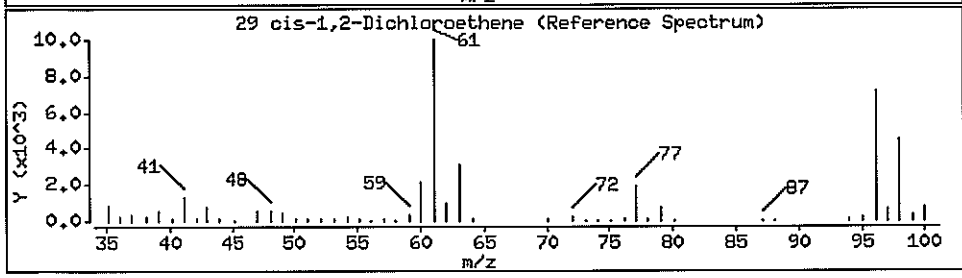
29 cis-1,2-Dichloroethene Concentration: 5.2 ug/l

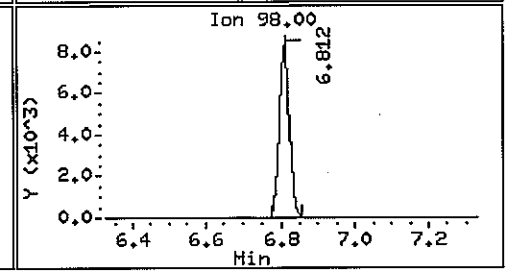




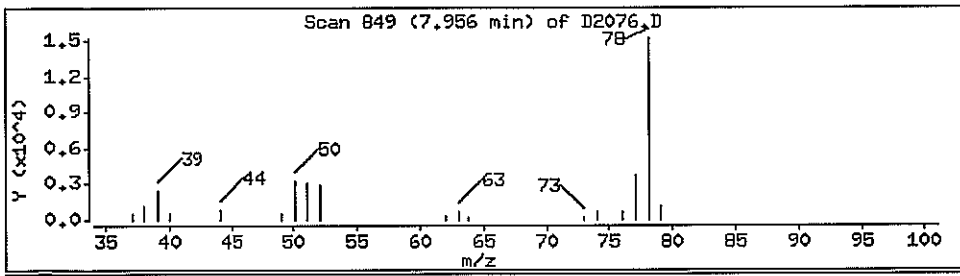


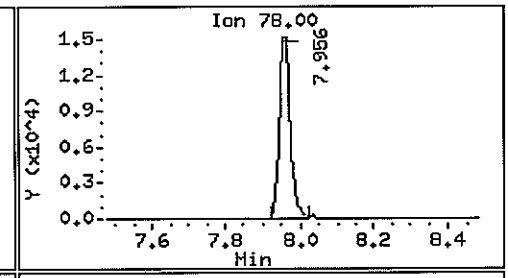


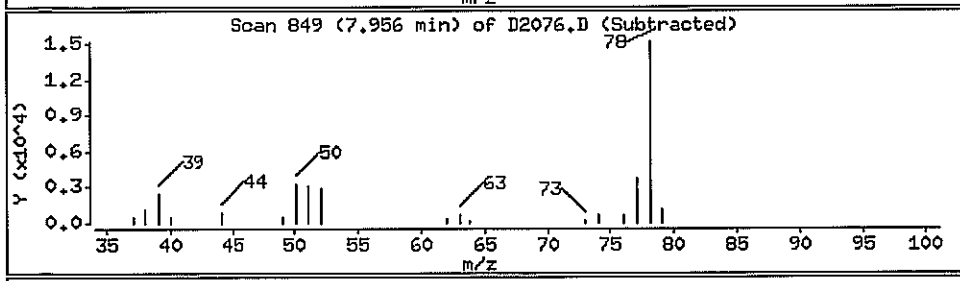


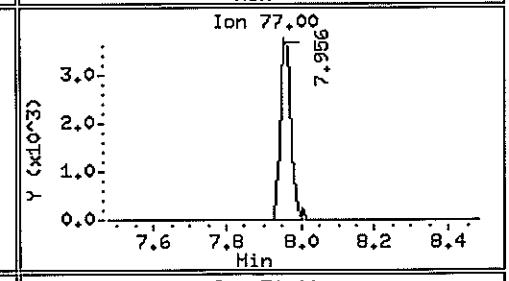


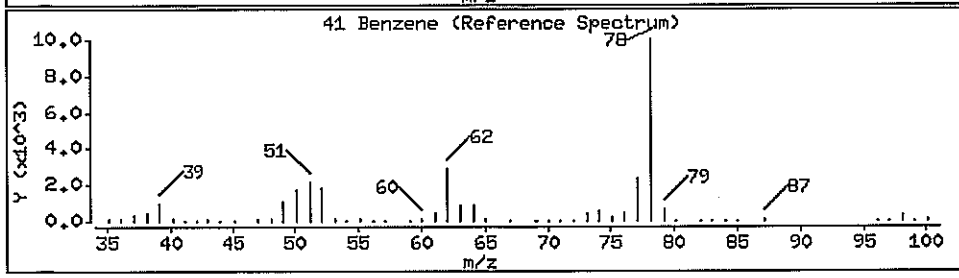
41 Benzene Concentration: 1.6 ug/l

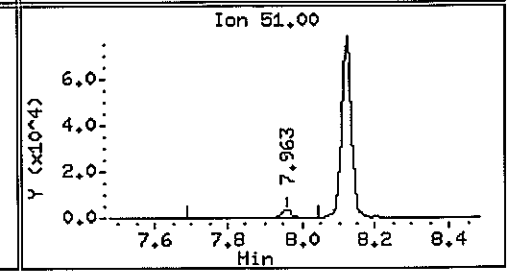












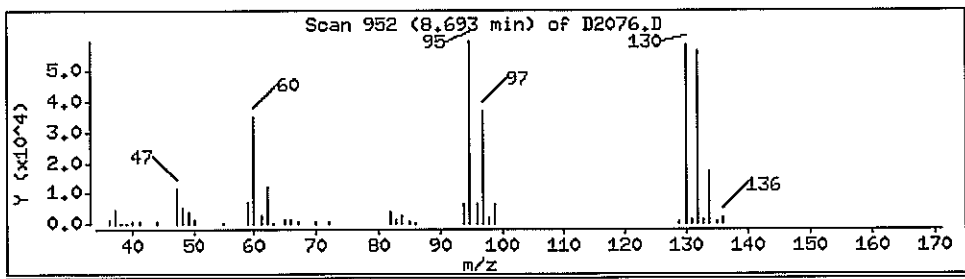
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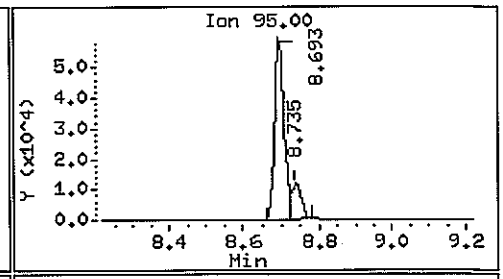
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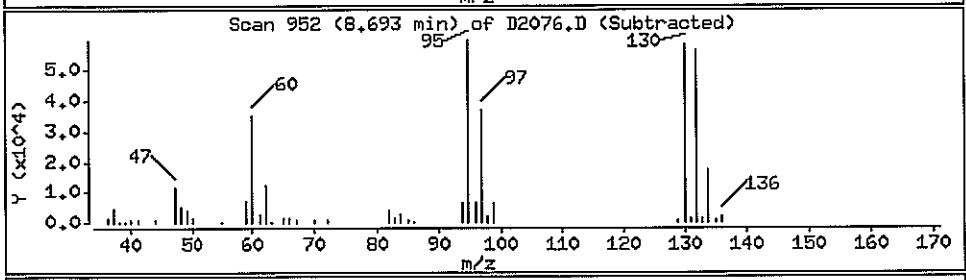
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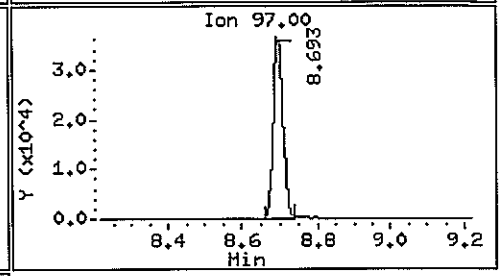
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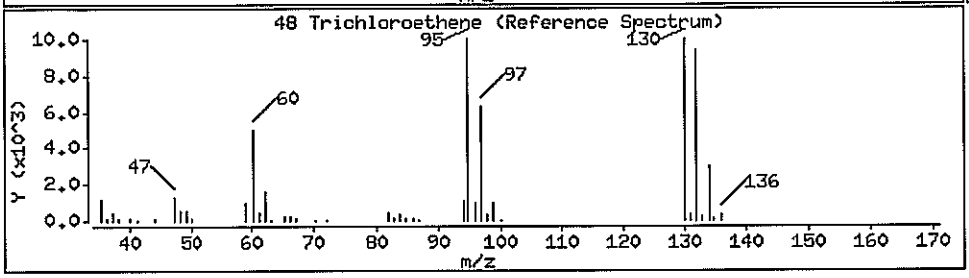
48 Trichloroethene Concentration: 19.3 ug/l



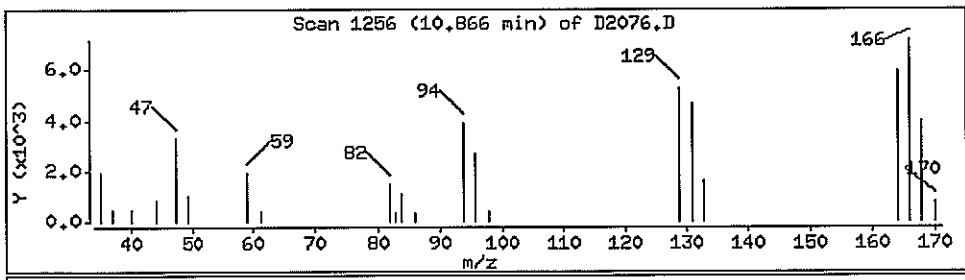


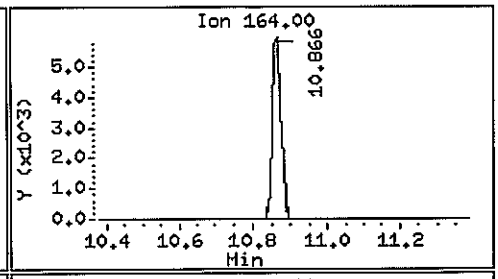


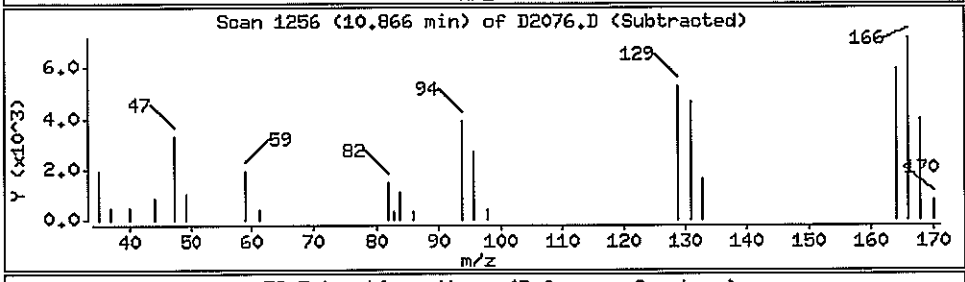


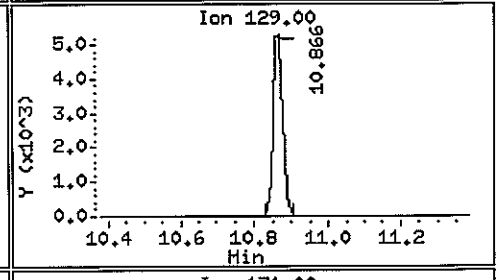


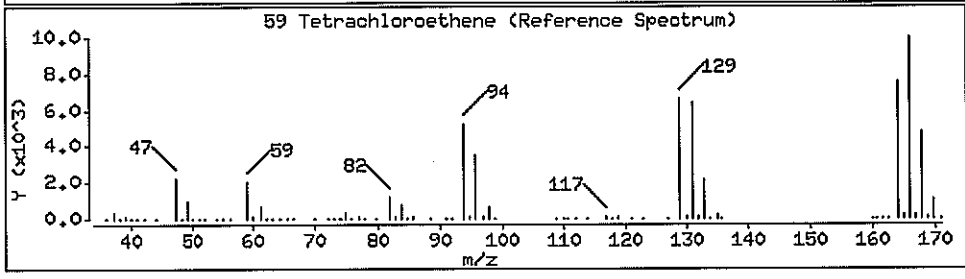
59 Tetrachloroethene Concentration: 2.2 ug/l

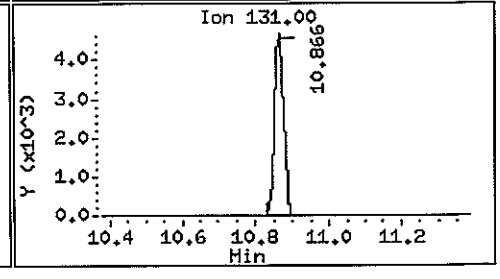












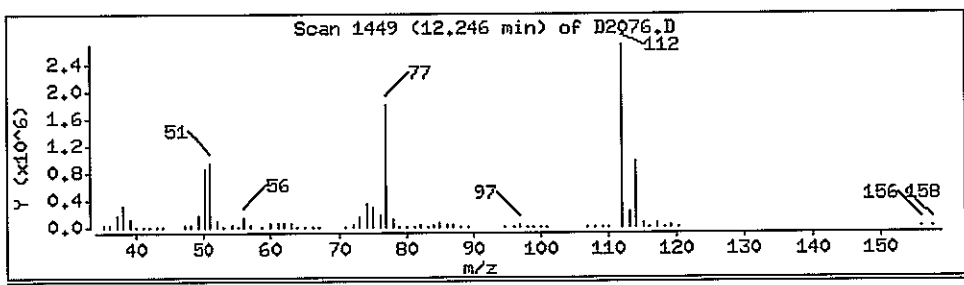
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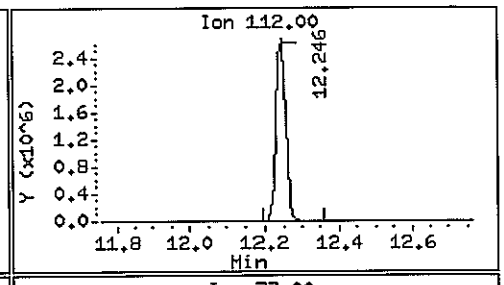
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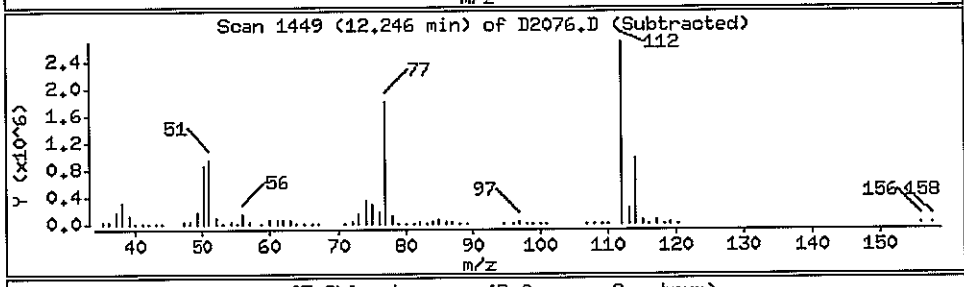
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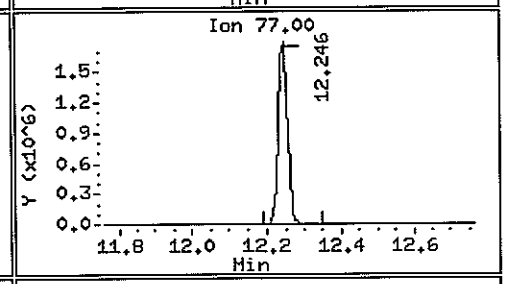
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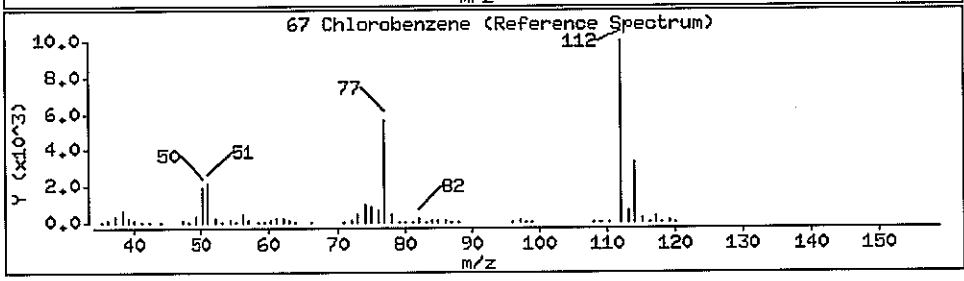
67 Chlorobenzene Concentration: 332 ug/l

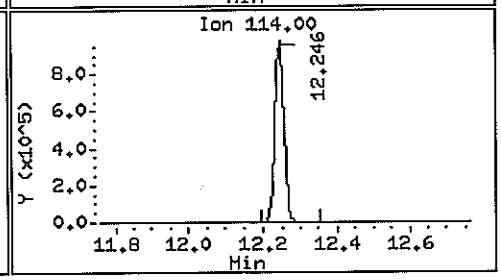




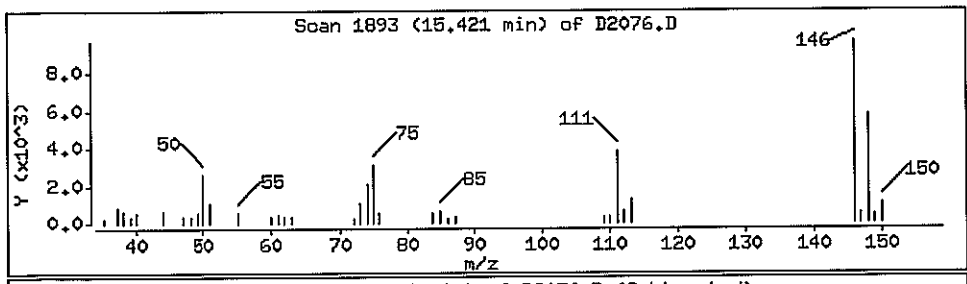


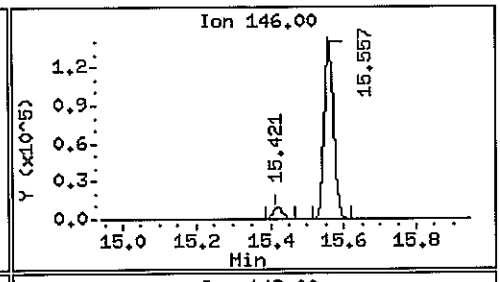


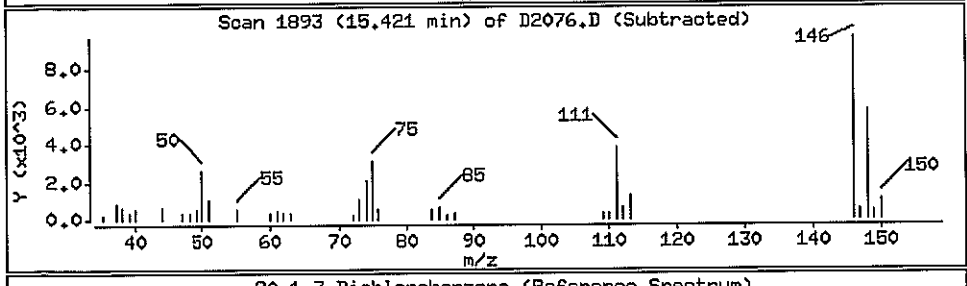


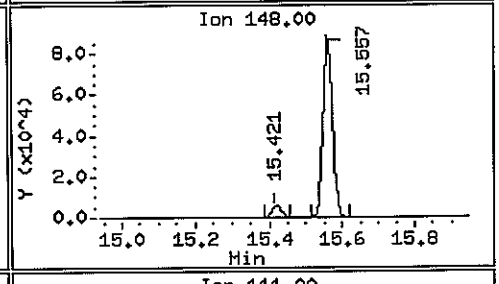


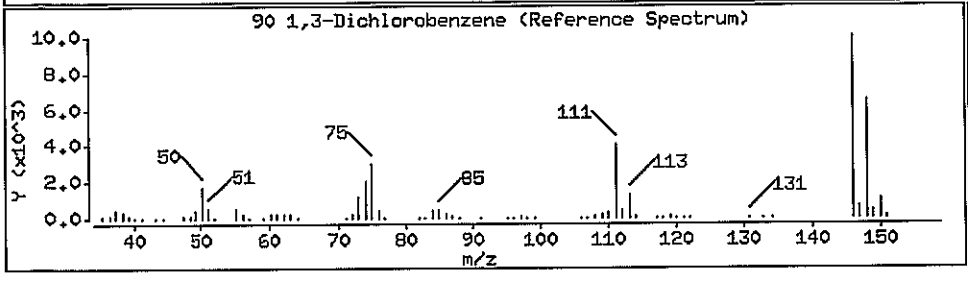
90 1,3-Dichlorobenzene Concentration: 1.7 ug/l

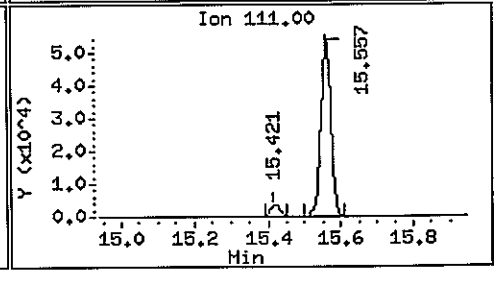












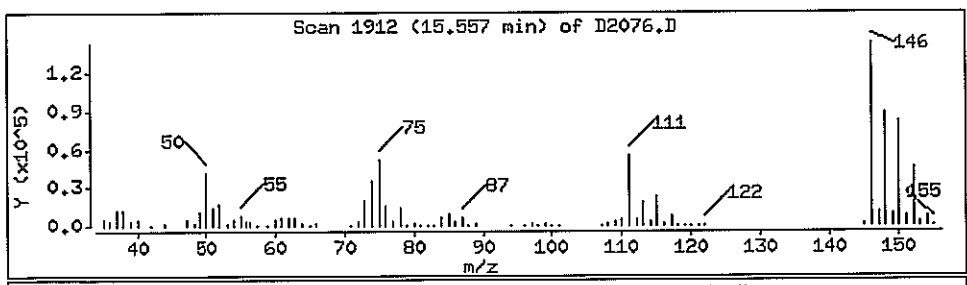
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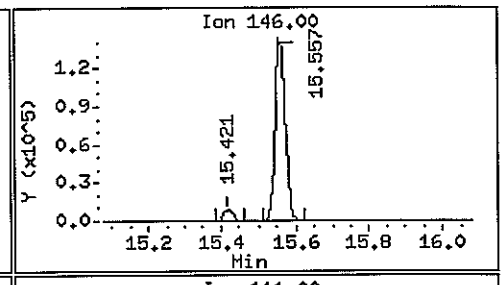
Date : 02-OCT-2012 19:01

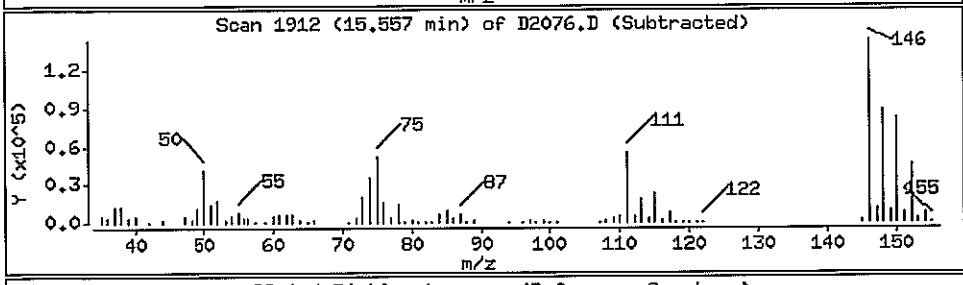
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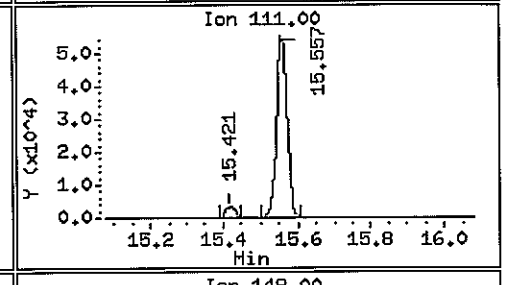
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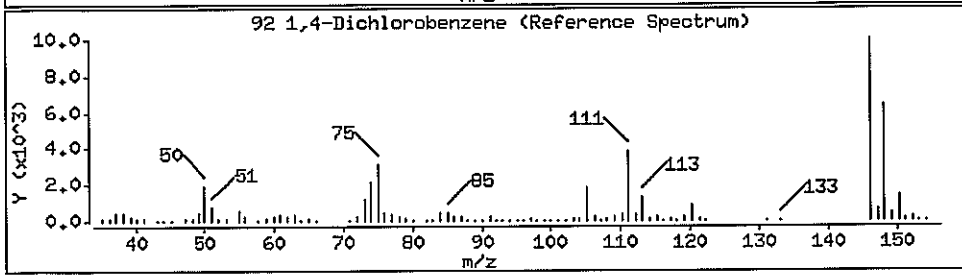
92 1,4-Dichlorobenzene Concentration: 21.8 ug/l

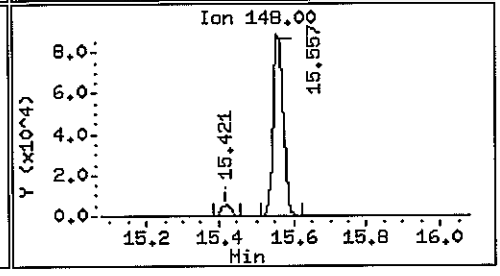




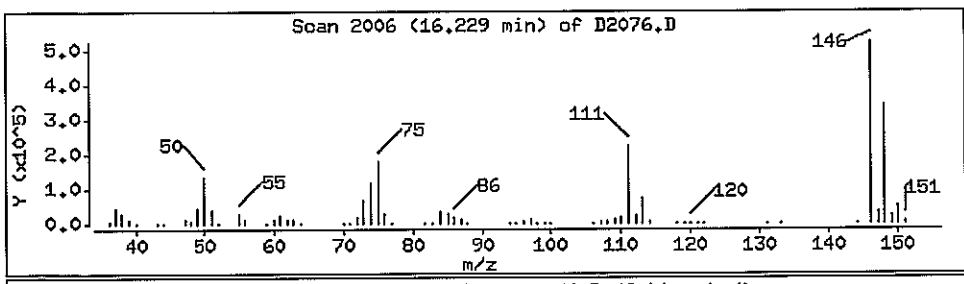


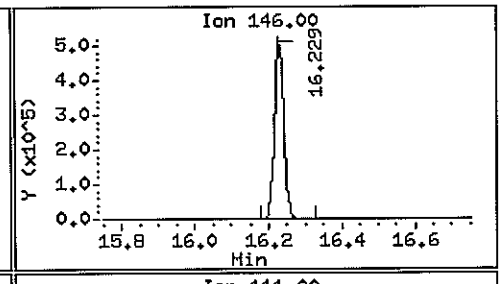


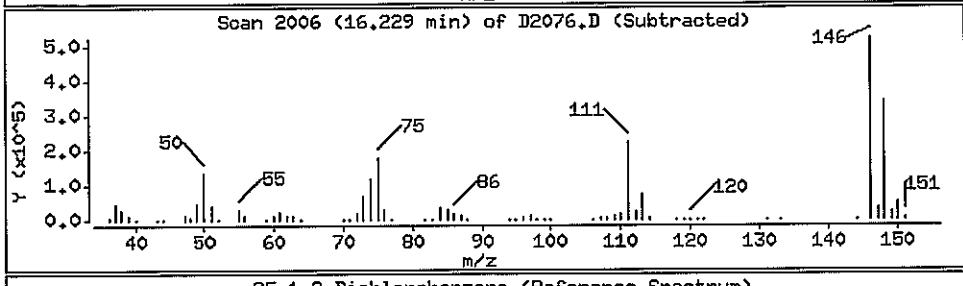


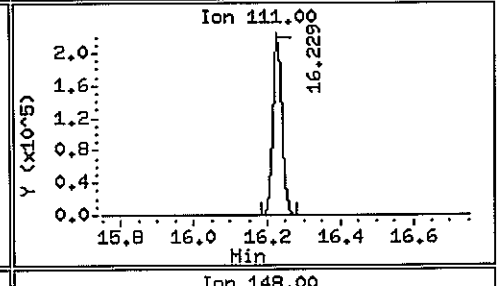


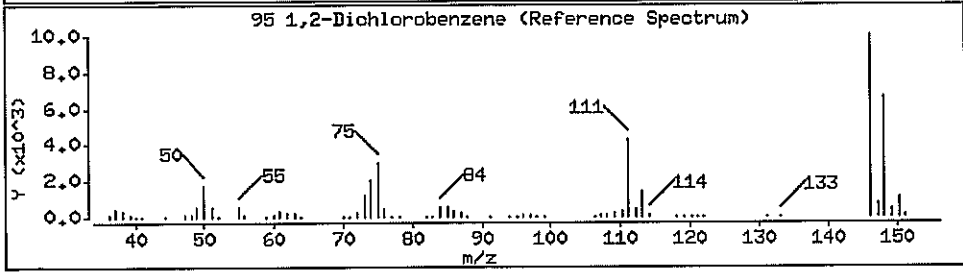
95 1,2-Dichlorobenzene Concentration: 91.4 ug/l

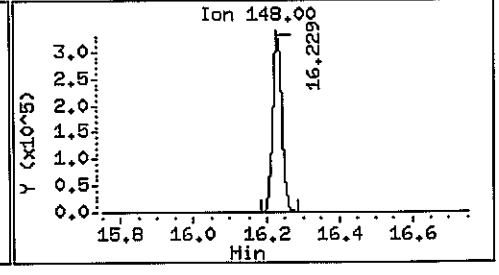








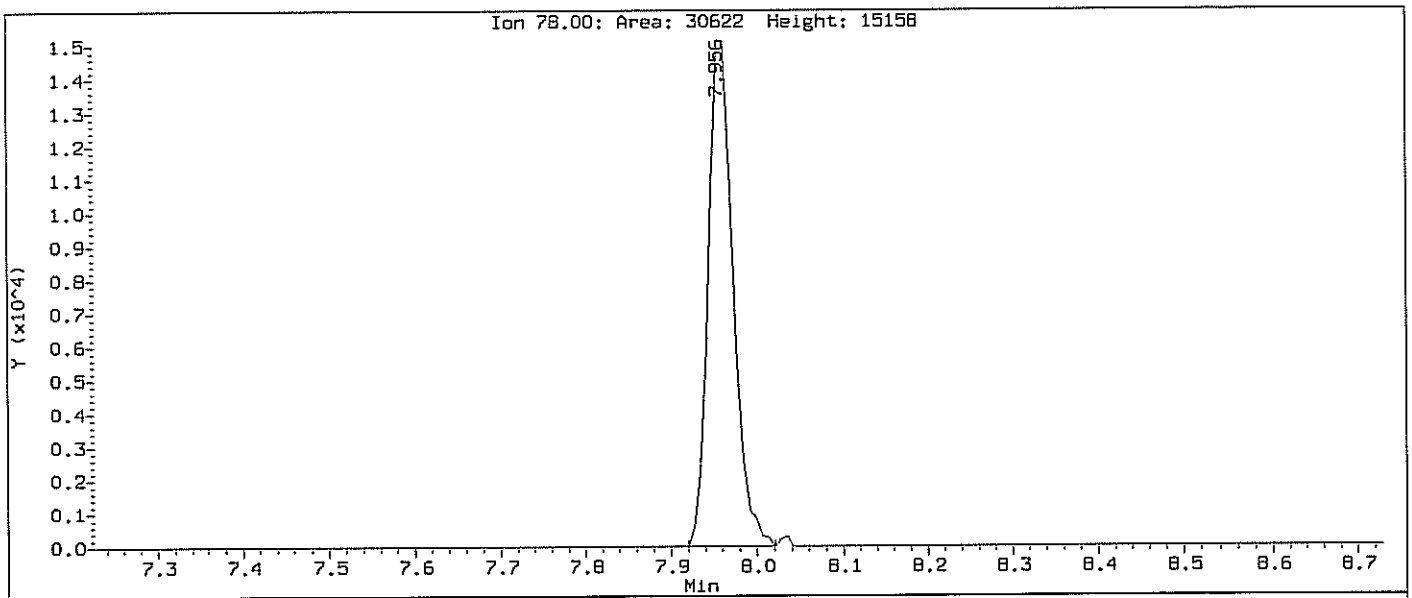


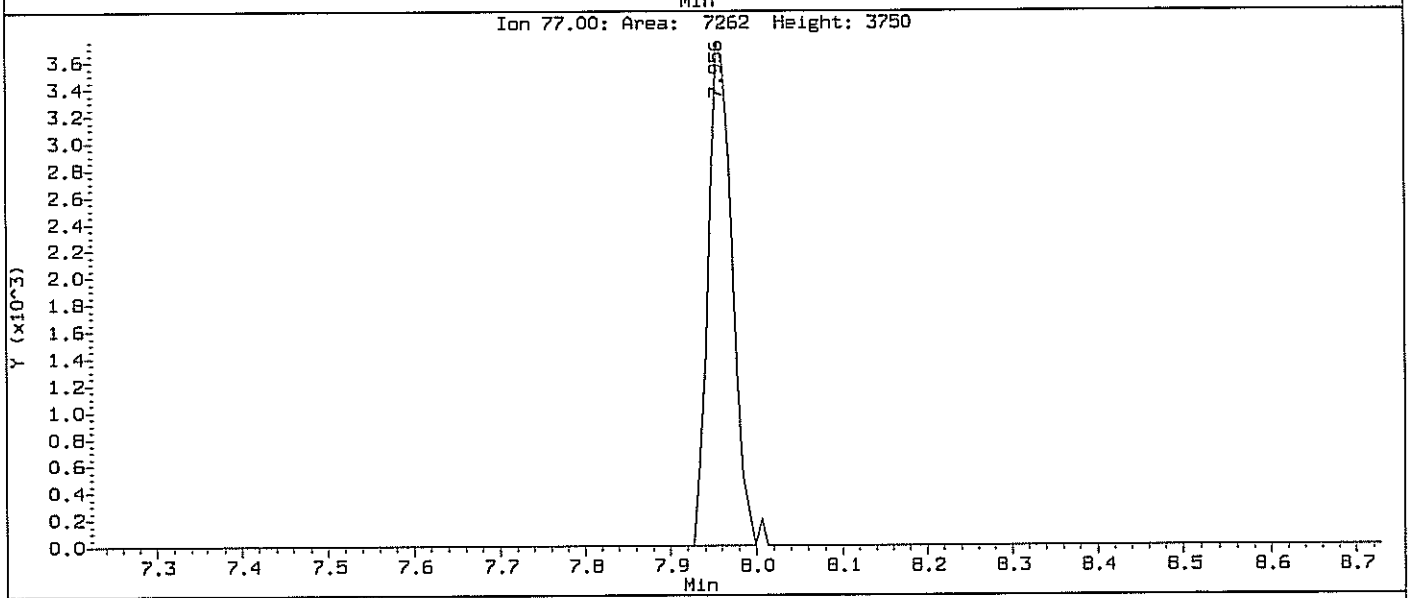


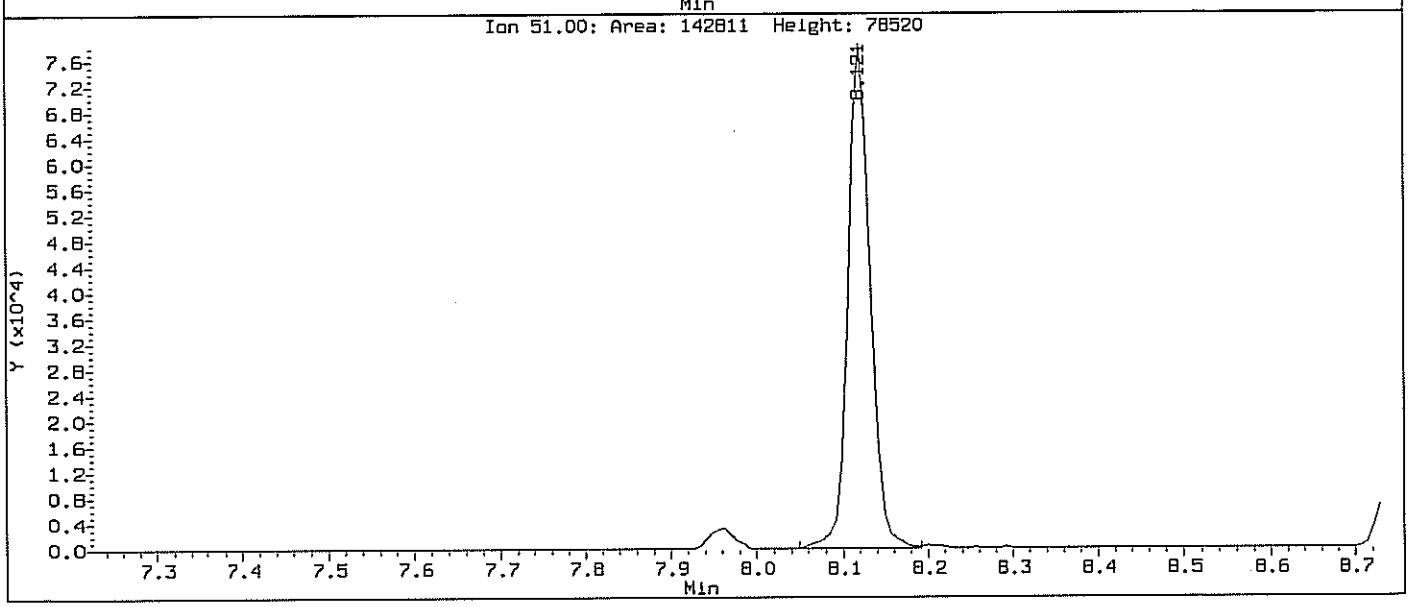
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Injection Date: 02-OCT-2012 19:01
Instrument: gcms-d.i
Client Sample ID: AOC9-MW17PM092612

Compound: Benzene
CAS Number: 71-43-2

Before



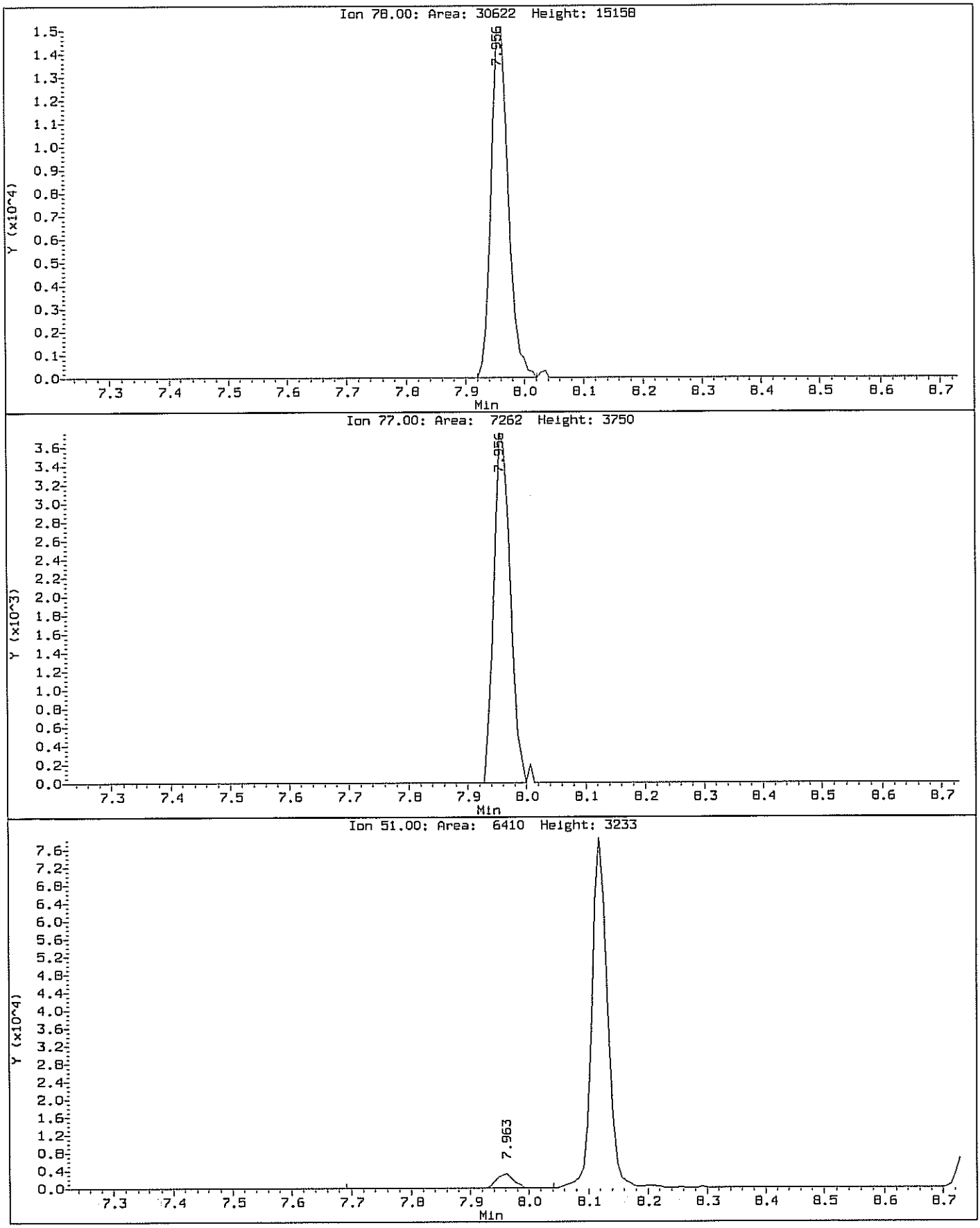




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Injection Date: 02-OCT-2012 19:01
Instrument: gcms-d.i
Client Sample ID: AOC9-MW17PM092612

Compound: Benzene
CAS Number: 71-43-2

After



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-6DL
Client ID: AOC9-MW17PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2070.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UMM	10.	ug/L	5	2	10.	1.2	5.0
Chloromethane	U	10.	ug/L	5	2	10.	1.8	5.0
Vinyl Chloride	UMM	10.	ug/L	5	2	10.	1.2	5.0
Bromomethane	UC	10.	ug/L	5	2	10.	2.4	5.0
Chloroethane	U	10.	ug/L	5	2	10.	2.8	5.0
Trichlorofluoromethane	U	10.	ug/L	5	2	10.	1.2	5.0
1,1-Dichloroethene	U	5.0	ug/L	5	1	5.0	1.8	2.5
Freon-113	UMM	5.0	ug/L	5	1	5.0	1.6	2.5
Acetone	U	25.	ug/L	5	5	25.	11.	12.
Carbon Disulfide	U	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl Acetate	U	5.0	ug/L	5	1	5.0	2.6	3.8
Methylene Chloride	U	25.	ug/L	5	5	25.	5.6	12.
trans-1,2-Dichloroethene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl tert-butyl Ether	U	5.0	ug/L	5	1	5.0	1.8	2.5
1,1-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
cis-1,2-Dichloroethene	J	3.6	ug/L	5	1	5.0	1.0	2.5
2-Butanone	U	25.	ug/L	5	5	25.	6.6	12.
Chloroform	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,1,1-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Cyclohexane	U	5.0	ug/L	5	1	5.0	1.6	2.5
Carbon Tetrachloride	U	5.0	ug/L	5	1	5.0	1.1	2.5
Benzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
1,2-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Trichloroethene		16.	ug/L	5	1	5.0	1.4	2.5
Methylcyclohexane	UMM	5.0	ug/L	5	1	5.0	1.5	2.5
1,2-Dichloropropane	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromodichloromethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
cis-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	0.95	2.5
4-Methyl-2-Pentanone	UL	25.	ug/L	5	5	25.	6.6	12.
Toluene	U	5.0	ug/L	5	1	5.0	1.4	2.5
trans-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,1,2-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
Tetrachloroethene	J	2.0	ug/L	5	1	5.0	2.0	2.5
2-Hexanone	UL	25.	ug/L	5	5	25.	8.5	12.
Dibromochloromethane	U	5.0	ug/L	5	1	5.0	1.5	2.5

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-6DL
Client ID: AOC9-MW17PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2070.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	5.0	ug/L	5	1	5.0	1.1	2.5
Chlorobenzene	MM	300	ug/L	5	1	5.0	1.1	2.5
Ethylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
M+P-Xylenes	U	10.	ug/L	5	2	10.	3.0	5.0
o-Xylene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Styrene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromoform	UL	5.0	ug/L	5	1	5.0	1.2	2.5
Isopropylbenzene	U	5.0	ug/L	5	1	5.0	1.2	2.5
1,1,2,2-Tetrachloroethane	U	5.0	ug/L	5	1	5.0	1.9	2.5
1,3-Dichlorobenzene	J	1.4	ug/L	5	1	5.0	1.3	2.5
1,4-Dichlorobenzene		19.	ug/L	5	1	5.0	1.2	2.5
1,2-Dichlorobenzene		73.	ug/L	5	1	5.0	0.75	2.5
1,2-Dibromo-3-Chloropropane	U	5.0	ug/L	5	1	5.0	2.5	2.5
1,2,4-Trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.8	2.5
bromochloromethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,4-Dioxane	UC	500	ug/L	5	100	500	44.	250
1,2,3-trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.4	2.5
1,3,5-Trimethylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,2,4-Trimethylbenzene	U	5.0	ug/L	5	1	5.0	0.95	2.5
4-Chlorotoluene	U	5.0	ug/L	5	1	5.0	0.95	2.5
n-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.2	2.5
n-Propylbenzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
Naphthalene	U	5.0	ug/L	5	1	5.0	1.5	2.5
p-Isopropyltoluene	U	5.0	ug/L	5	1	5.0	1.2	2.5
sec-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
tert-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,2-Dichloroethane-d4		103.	%					
Toluene-d8		99.2	%					
P-Bromofluorobenzene		94.6	%					
Dibromofluoromethane		106.	%					

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Report Date: 15-Oct-2012 11:08

Katahdin Analytical Services

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Inj Date : 02-OCT-2012 16:13 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : SF6628-6DL
Misc Info : WG114264,WG114145-4
Comment : SW846 5030
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Meth Date : 15-Oct-2012 11:00 gcms-d.i Quant Type: ISTD
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Dil Factor: 5.00000
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Target Version: 4.12

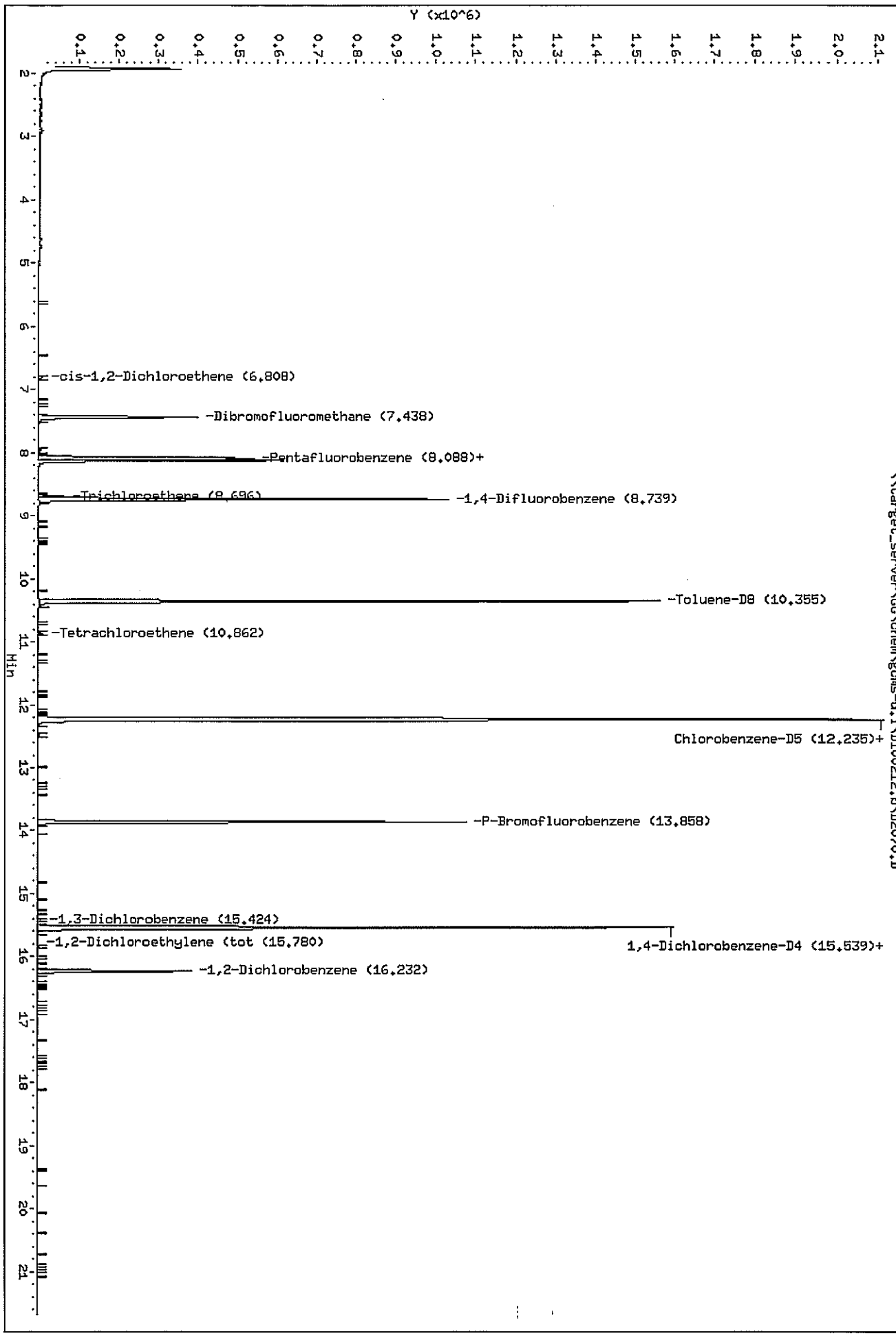
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	5.000	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
	29 cis-1,2-Dichloroethene	96	6.808	6.827	(0.842)	3574	0.72315	3.6(a)	
M	30 1,2-Dichloroethylene (total)	96				3574	0.72315	3.6(a)	
$	37 Dibromofluoromethane	113	7.437	7.463	(0.920)	233356	53.0862	53.1	
*	42 Pentafluorobenzene	168	8.088	8.100	(1.000)	443907	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.116	8.143	(1.004)	307096	51.7469	51.7	
	48 Trichloroethene	95	8.695	8.715	(0.995)	18417	3.16825	15.8	
*	49 1,4-Difluorobenzene	114	8.738	8.757	(1.000)	780243	50.0000		
$	55 Toluene-D8	98	10.354	10.373	(1.185)	931553	49.6226	49.6	
	59 Tetrachloroethene	164	10.869	10.881	(0.889)	1817	0.40082	2.0(a)	
*	66 Chlorobenzene-D5	117	12.221	12.240	(1.000)	738667	50.0000		
	67 Chlorobenzene	112	12.242	12.261	(1.002)	874874	60.2171	301	
$	76 P-Bromofluorobenzene	95	13.858	13.877	(1.586)	366795	47.2808	47.3	
	90 1,3-Dichlorobenzene	146	15.424	15.443	(0.993)	3155	0.29036	1.4(a)	
*	91 1,4-Dichlorobenzene-D4	152	15.538	15.557	(1.000)	399302	50.0000		
	92 1,4-Dichlorobenzene	146	15.560	15.579	(1.001)	45028	3.74161	18.7	
	95 1,2-Dichlorobenzene	146	16.232	16.251	(1.045)	149905	14.6092	73.0	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Y (x10^6)
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
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Date : 02-OCT-2012 16:13
Client ID: ADC9-HW17PH092612
Sample Info: SF6628-6DL
Instrument: gcms-d.i
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-cis-1,2-Dichloroethene (6.808)
-Dibromofluoromethane (7.438)
-Pentafluorobenzene (8.088)+
-Trichloroethene (8.696)
-1,4-Difluorobenzene (8.739)
-Toluene-D8 (10.355)
-Tetrachloroethene (10.862)
Chlorobenzene-D5 (12.235)+
-P-Bromofluorobenzene (13.858)
-1,3-Dichlorobenzene (15.424)
-1,2-Dichloroethylene (tot (15.780)
1,4-Dichlorobenzene-D4 (15.539)+
-1,2-Dichlorobenzene (16.232)

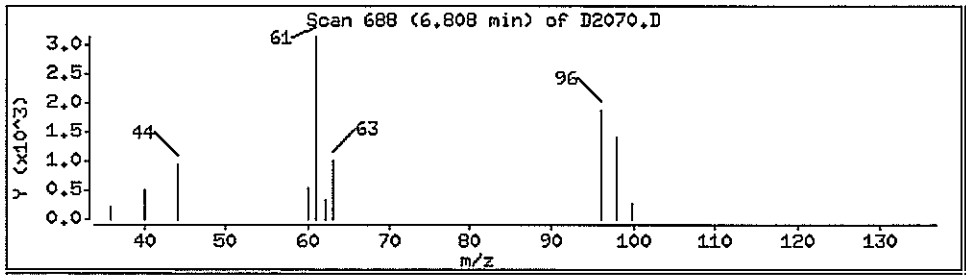
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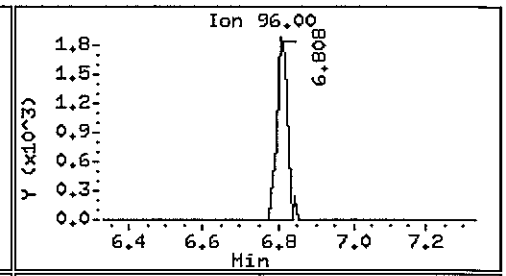
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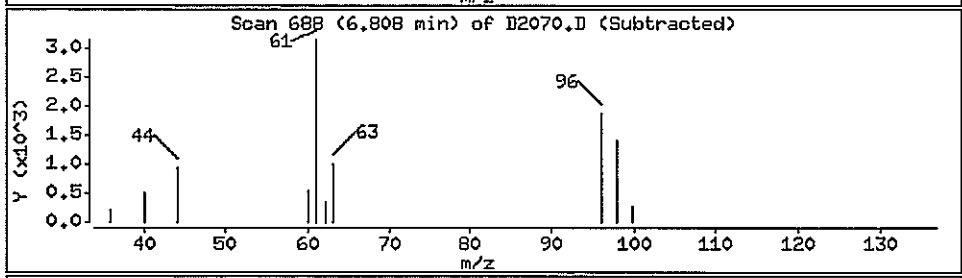
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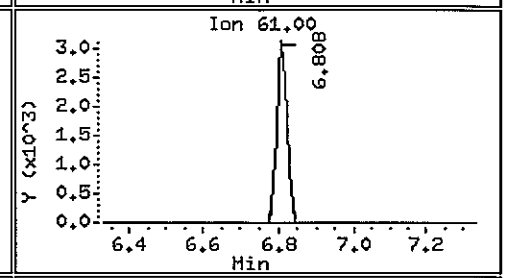
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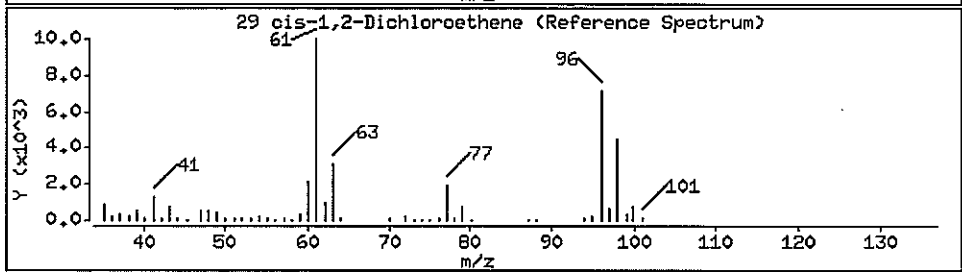
29 cis-1,2-Dichloroethene Concentration: 3.6 ug/l

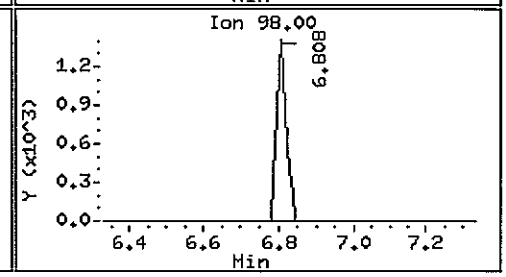




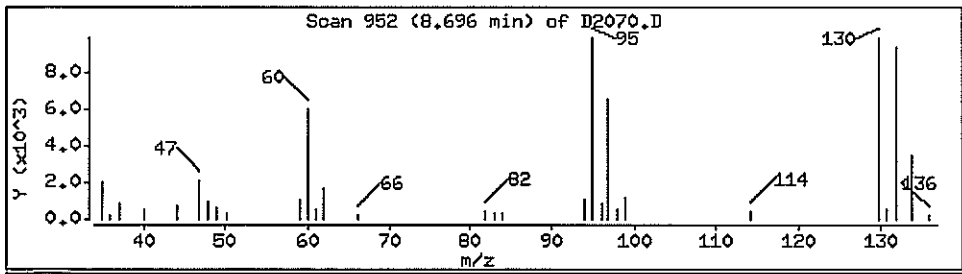


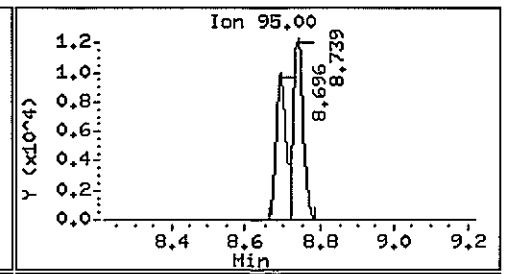


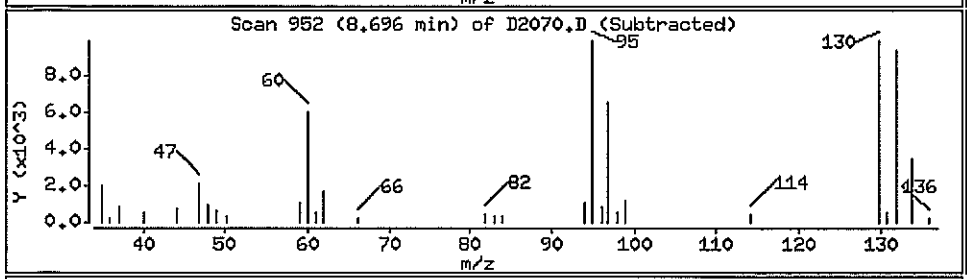


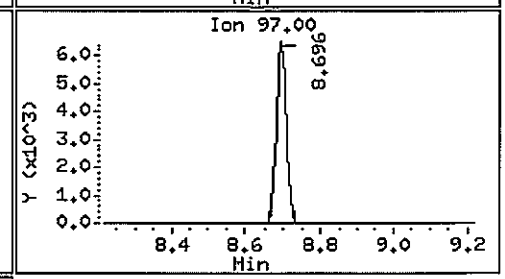


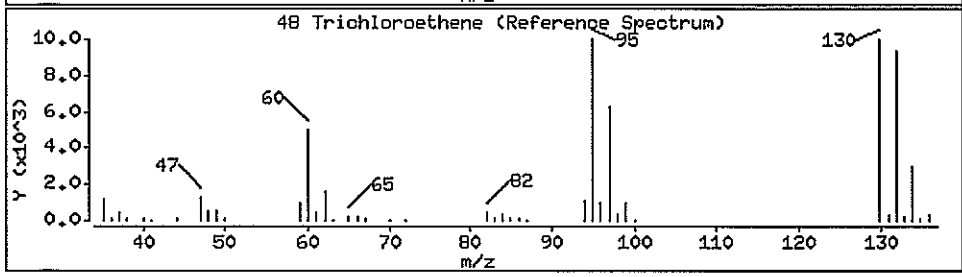
48 Trichloroethene Concentration: 15.8 ug/l











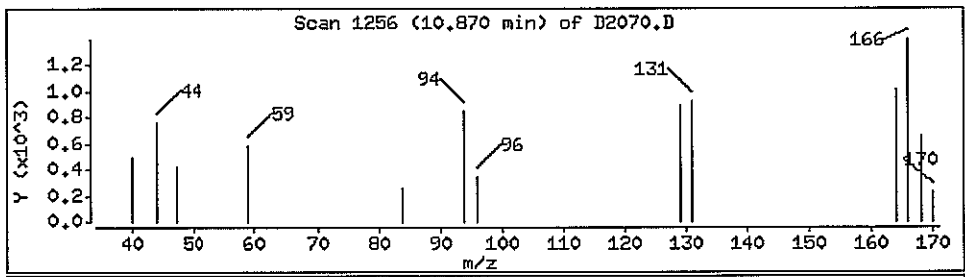
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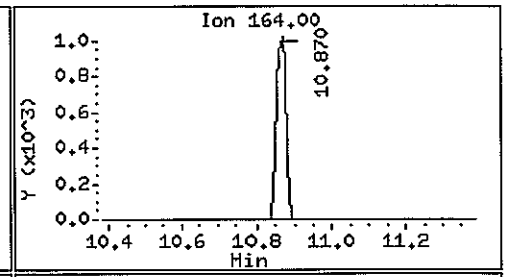
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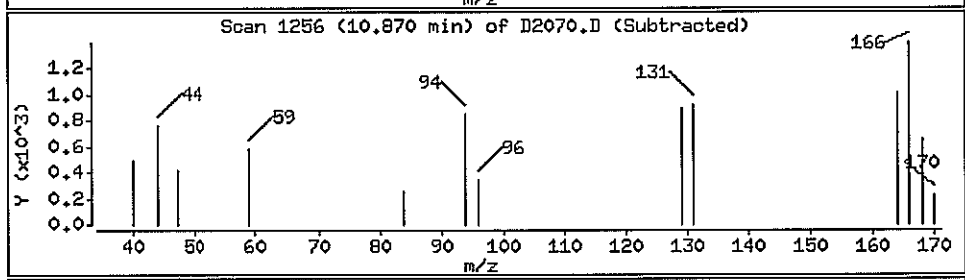
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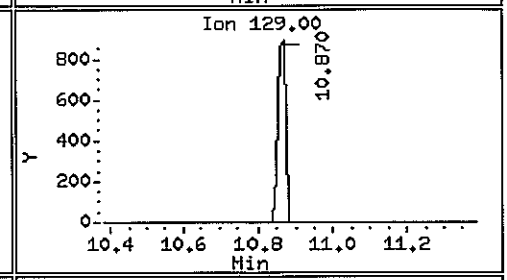
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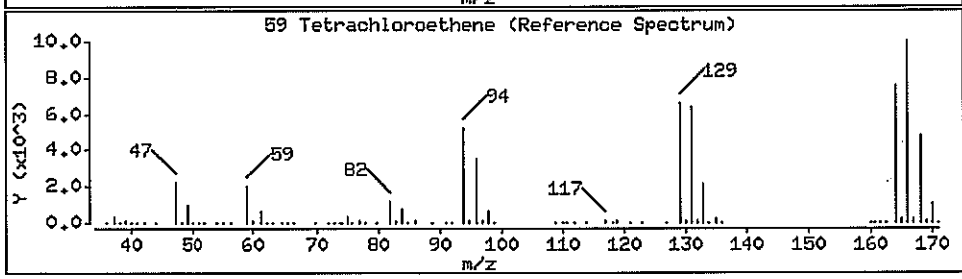
59 Tetrachloroethene Concentration: 2.0 ug/l

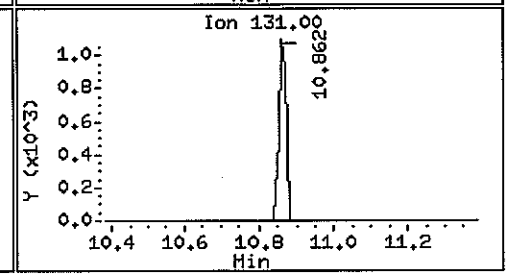




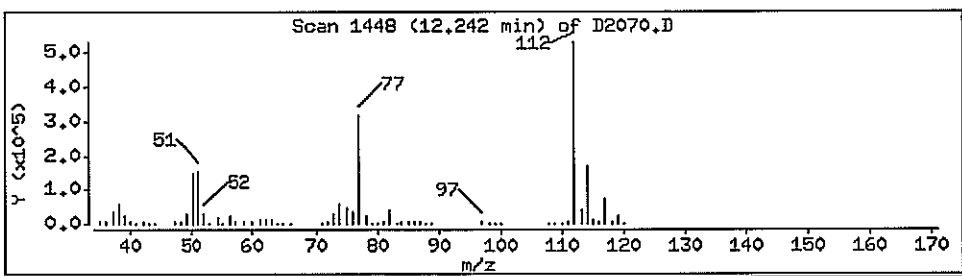


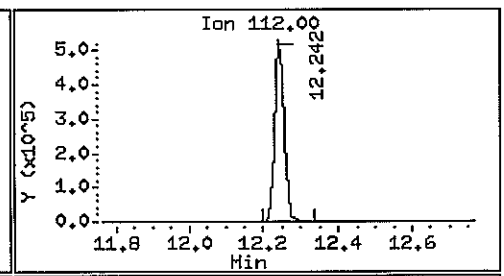


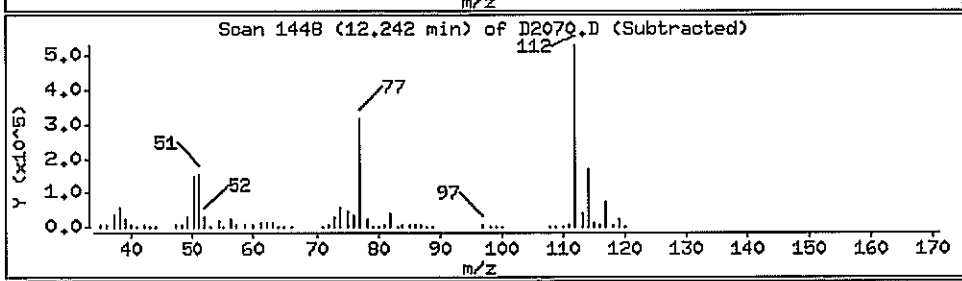


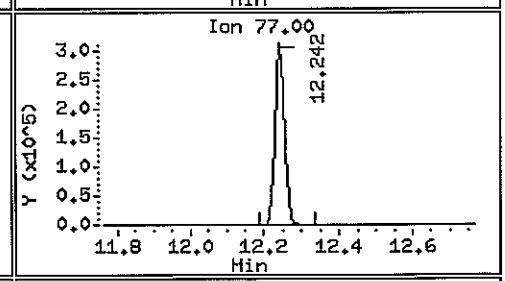


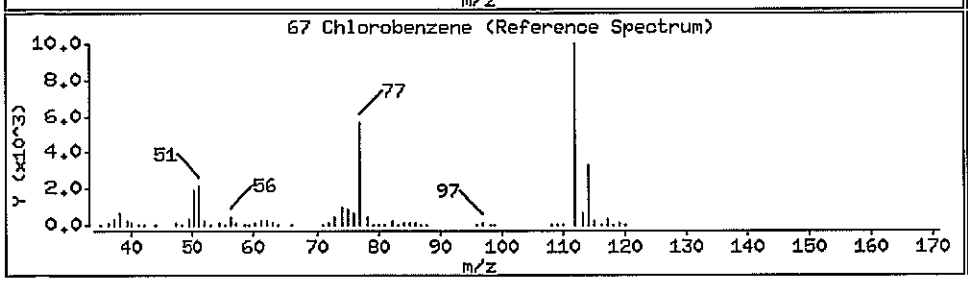
67 Chlorobenzene Concentration: 301 ug/l

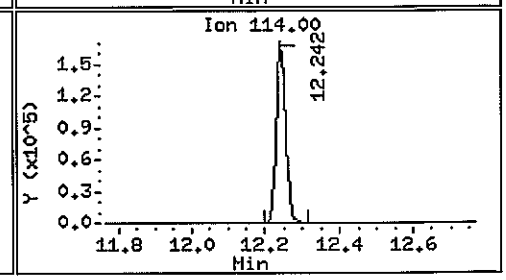












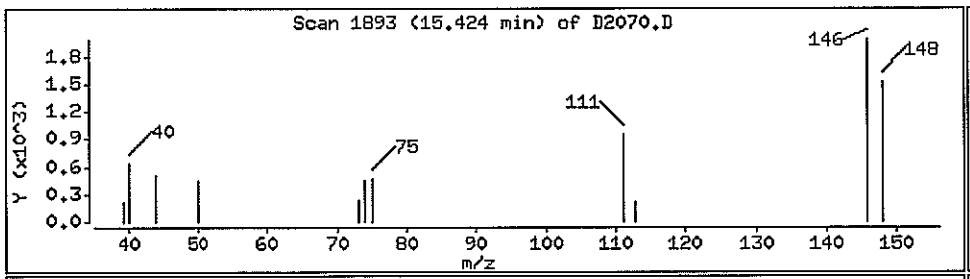
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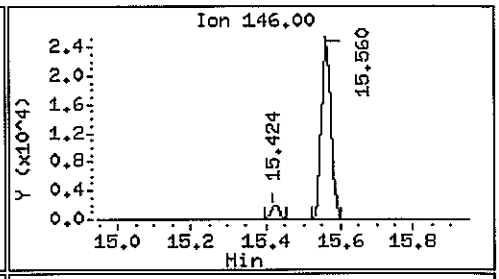
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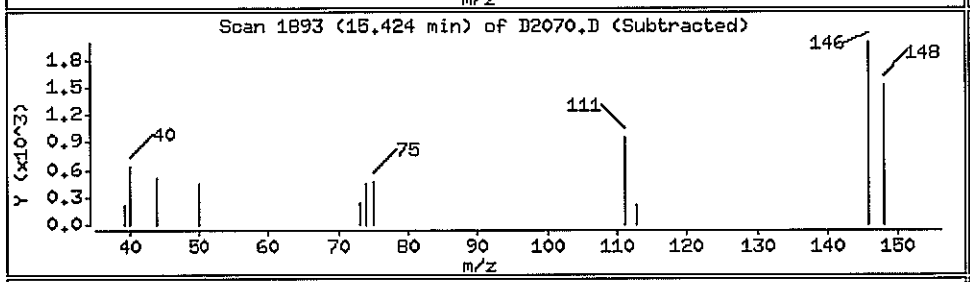
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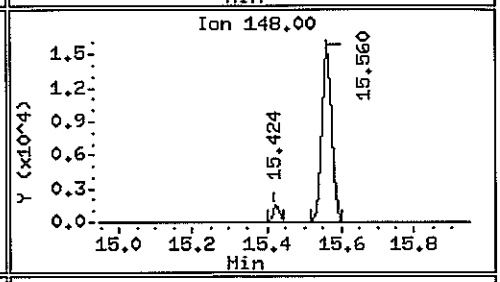
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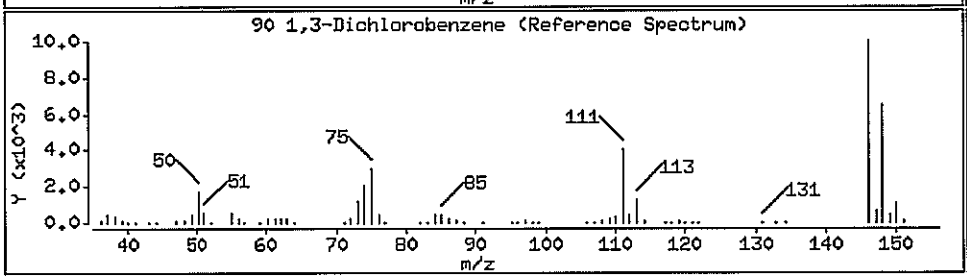
90 1,3-Dichlorobenzene Concentration: 1.4 ug/l

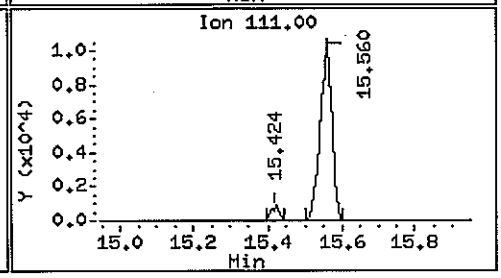




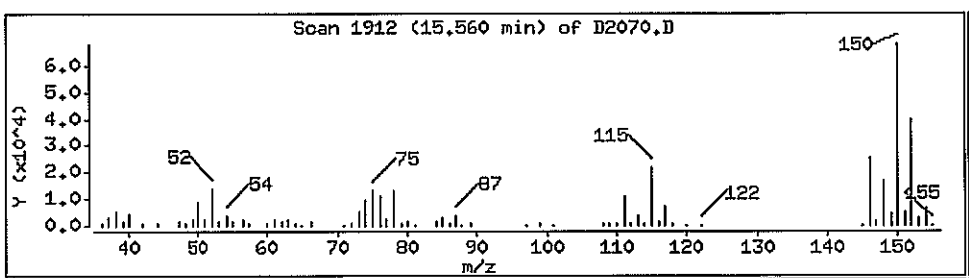


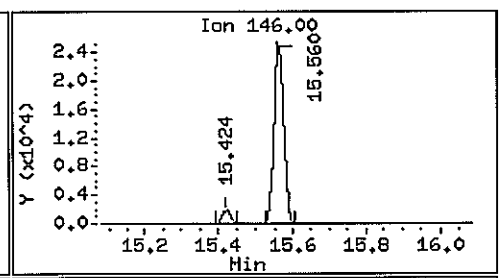


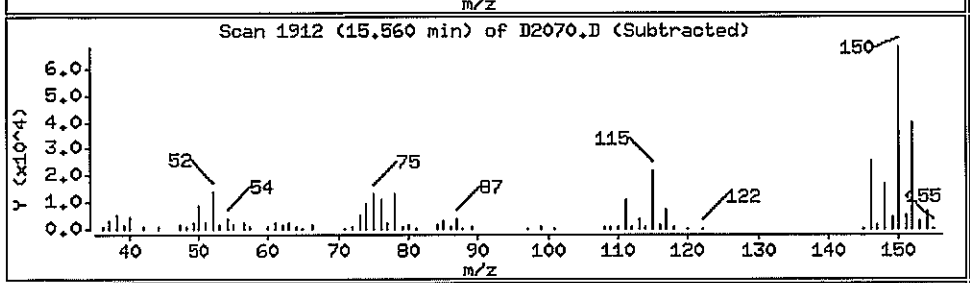


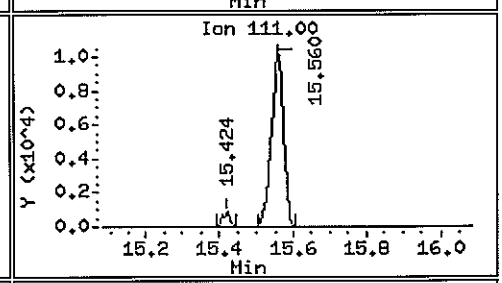


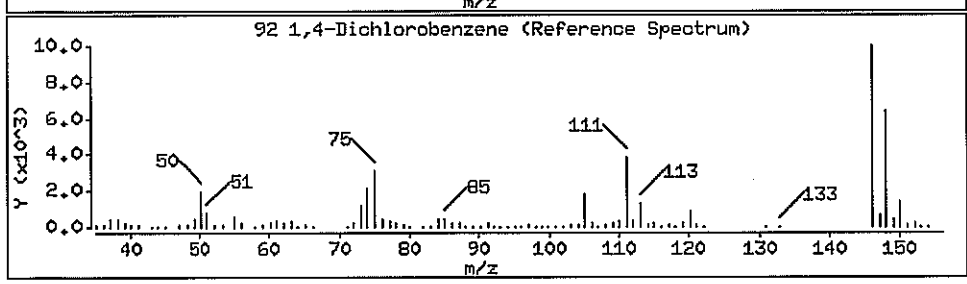
92 1,4-Dichlorobenzene Concentration: 18.7 ug/l

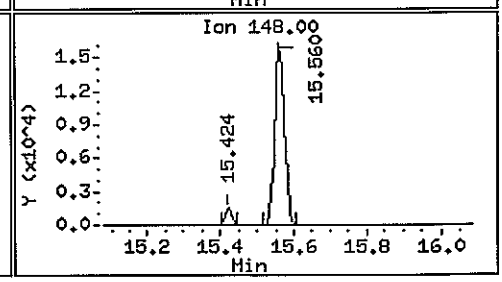












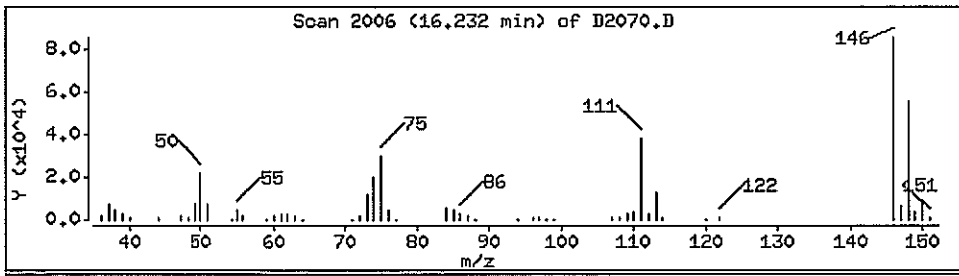
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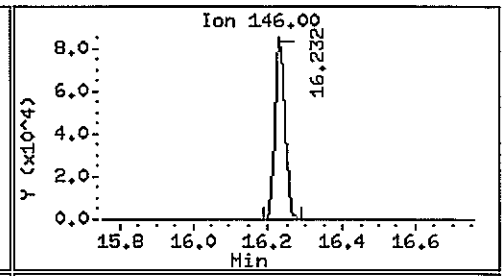
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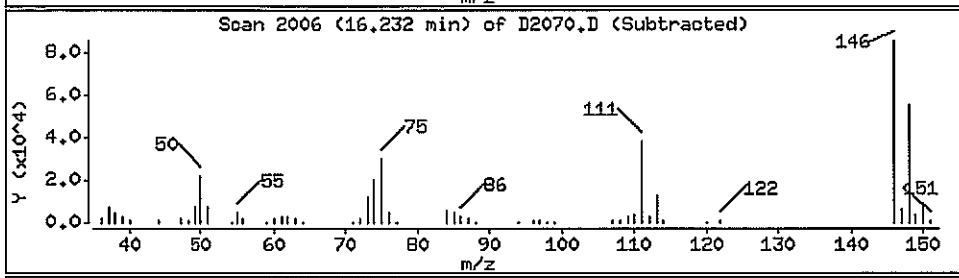
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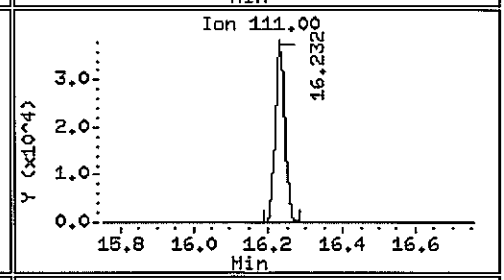
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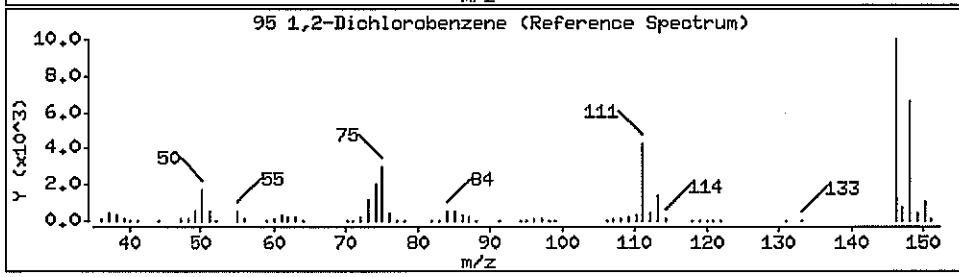
95 1,2-Dichlorobenzene Concentration: 73.0 ug/l

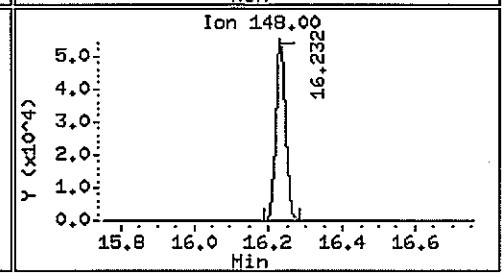












Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-7
Client ID: AOC9-MW15PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2111.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride		2.5	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	J	0.65	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	J	0.67	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene		2.8	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	J	0.34	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-7
Client ID: AOC9-MW15PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2111.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	E	290	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	L	2.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.8	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		19.	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		31.	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	UC	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	J	0.23	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene		1.5	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	J	0.53	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		101.	%					
Toluene-d8		101.	%					
P-Bromofluorobenzene		97.5	%					
Dibromofluoromethane		99.5	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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http://www.katahdinlab.com

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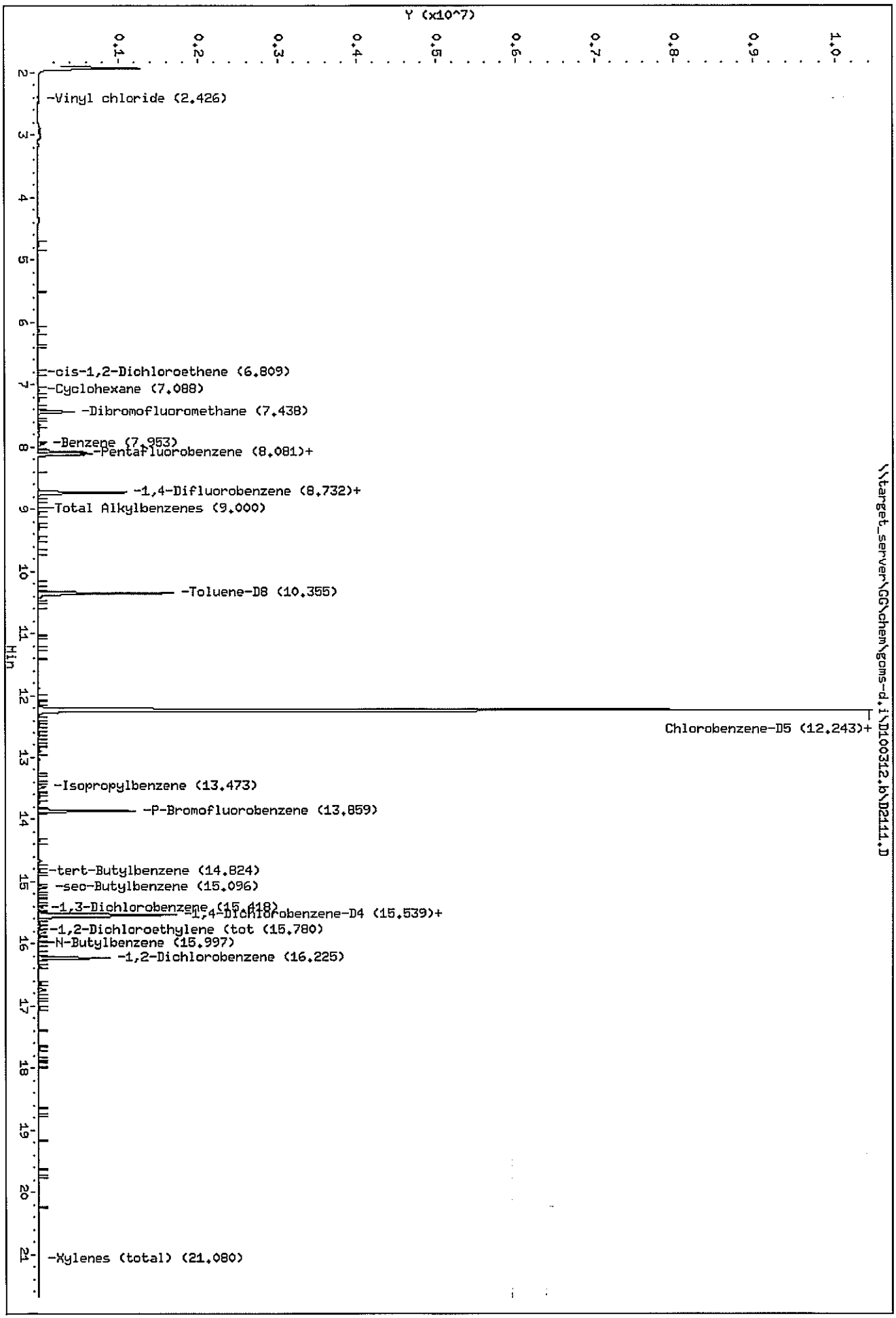
Katahdin Analytical Services

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Operator : REC Inst ID: gcms-d.i
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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
	3	Vinyl chloride	62	2.425	2.444	(0.300)	16673	2.49517	2.5	
	29	cis-1,2-Dichloroethene	96	6.801	6.827	(0.842)	3594	0.65442	0.65(a)	
M	30	1,2-Dichloroethylene (total)	96				3594	0.65442	0.65(a)	
$	37	Dibromofluoromethane	113	7.437	7.463	(0.920)	243101	49.7681	49.8	
	41	Benzene	78	7.952	7.978	(0.910)	63262	2.78583	2.8	
*	42	Pentafluorobenzene	168	8.081	8.100	(1.000)	493276	50.0000		
	43	Cyclohexane	56	7.087	7.120	(0.877)	6639	0.67457	0.67(a)	
$	45	1,2-Dichloroethane-D4	65	8.117	8.143	(1.004)	332848	50.4729	50.5	
	48	Trichloroethene	95	8.689	8.715	(0.994)	2123	0.34054	0.34(aH)	
*	49	1,4-Difluorobenzene	114	8.739	8.757	(1.000)	836788	50.0000		
$	55	Toluene-D8	98	10.355	10.373	(1.185)	1014584	50.3935	50.4	
*	66	Chlorobenzene-D5	117	12.221	12.240	(1.000)	817023	50.0000		
	67	Chlorobenzene	112	12.242	12.261	(1.002)	4664147	290.242	290(A)	
	75	Isopropylbenzene	105	13.472	13.491	(0.867)	50203	1.98259	2.0	
$	76	P-Bromofluorobenzene	95	13.858	13.877	(1.586)	405609	48.7510	48.8	
	86	tert-Butylbenzene	119	14.824	14.842	(0.954)	11035	0.52866	0.53(a)	
	90	1,3-Dichlorobenzene	146	15.417	15.443	(0.993)	21842	1.77506	1.8	
*	91	1,4-Dichlorobenzene-D4	152	15.531	15.557	(1.000)	452179	50.0000		
	92	1,4-Dichlorobenzene	146	15.560	15.579	(1.002)	257834	18.9194	18.9	
	93	N-Butylbenzene	91	16.003	16.015	(1.030)	5023	0.23467	0.23(a)	
	94	sec-Butylbenzene	105	15.095	15.114	(0.972)	42090	1.54224	1.5	
	95	1,2-Dichlorobenzene	146	16.225	16.251	(1.045)	359205	30.9131	30.9	
M	153	Total Alkylbenzenes	100				58148	2.30557	2.3(a)	



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Date : 03-OCT-2012 15:54
Client ID: AOC9-MW15PH092612
Sample Info: SF6628-7

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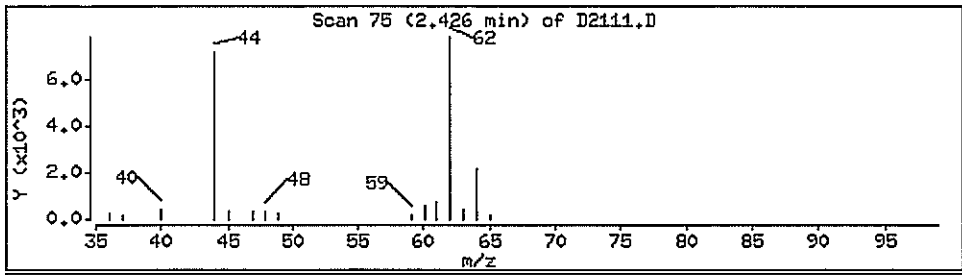
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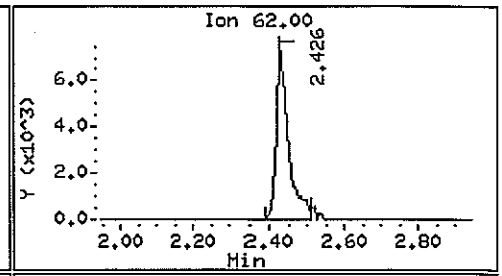
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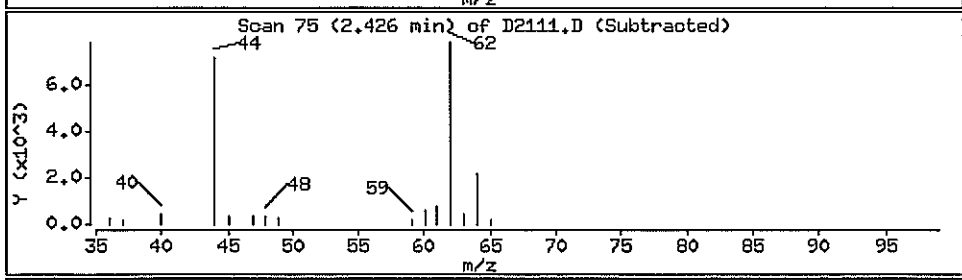
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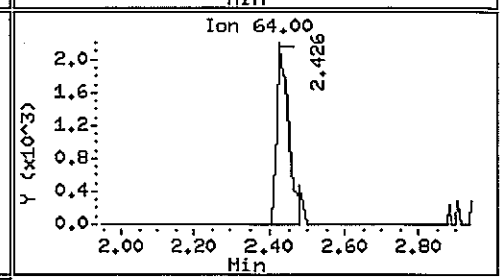
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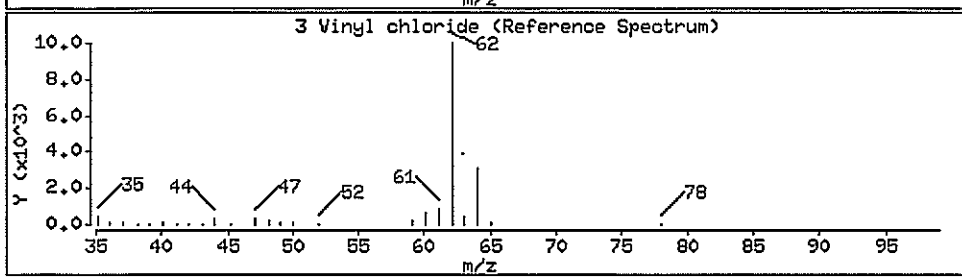
3 Vinyl chloride Concentration: 2.5 ug/l



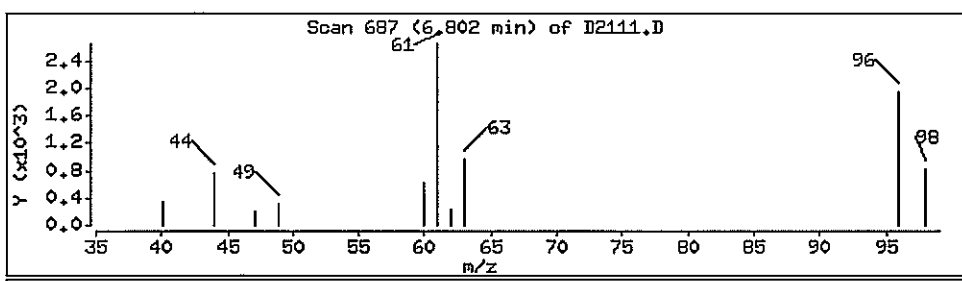


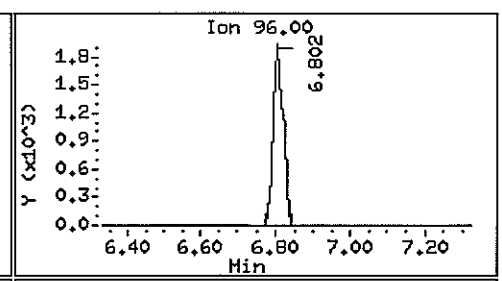


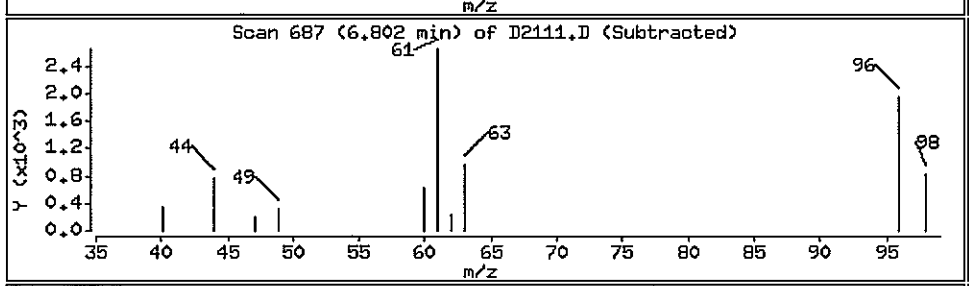


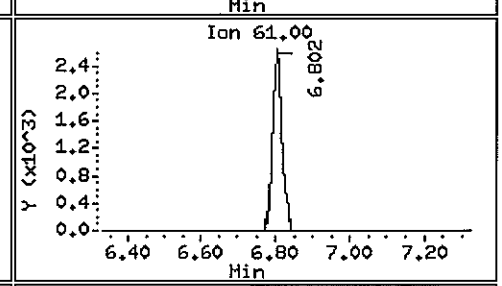


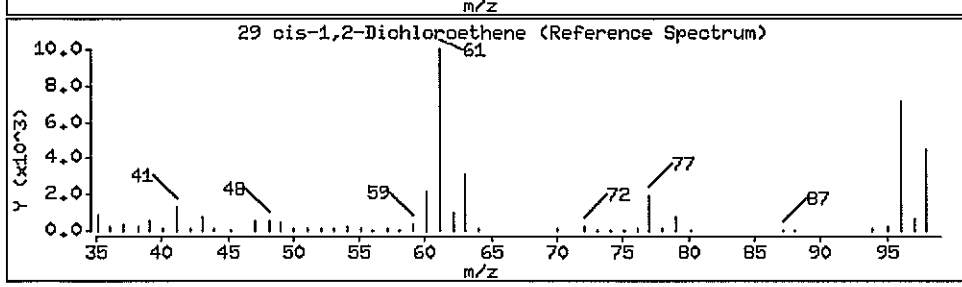
29 cis-1,2-Dichloroethene Concentration: 0.65 ug/l

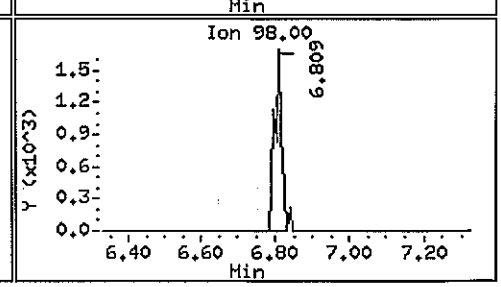












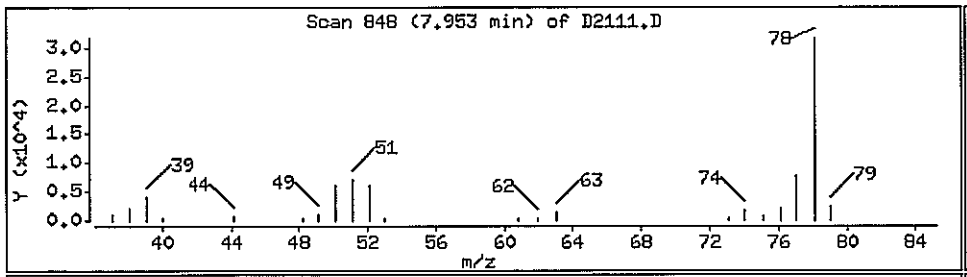
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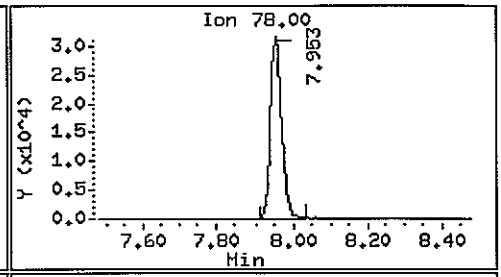
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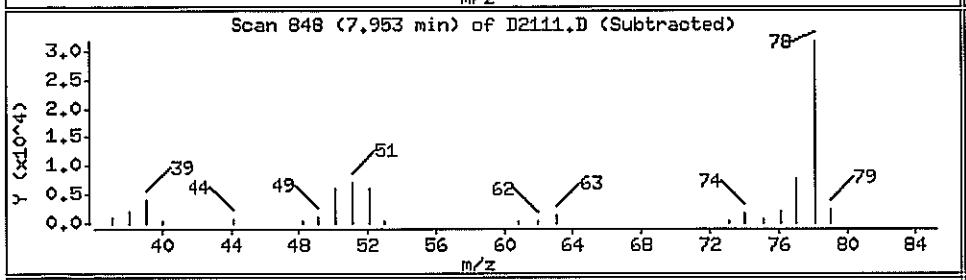
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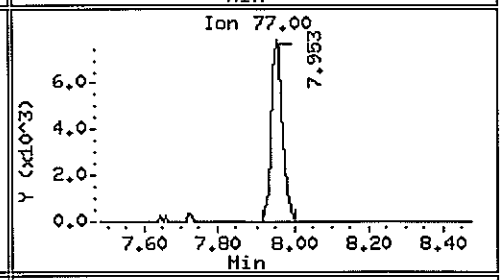
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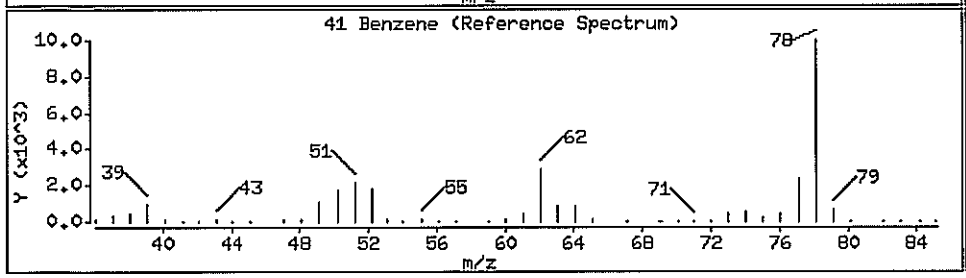
41 Benzene Concentration: 2.8 ug/l

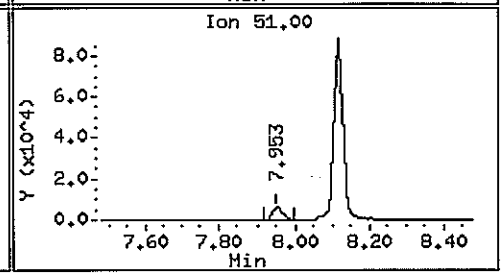




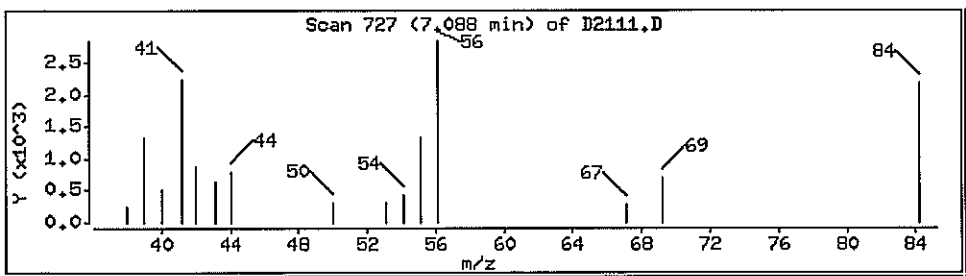


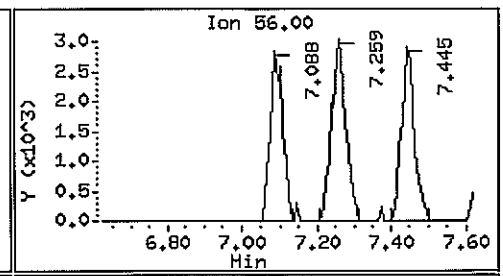


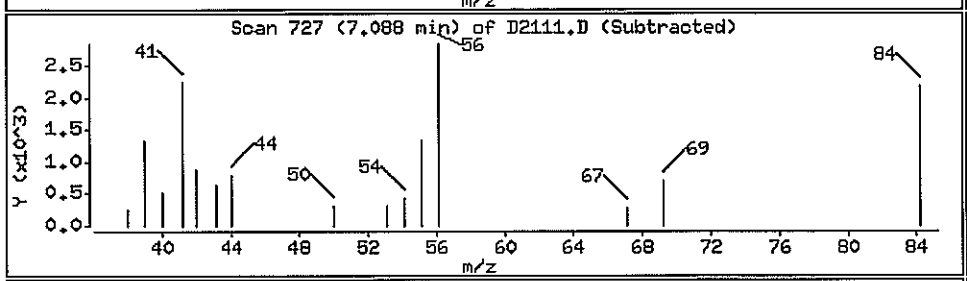


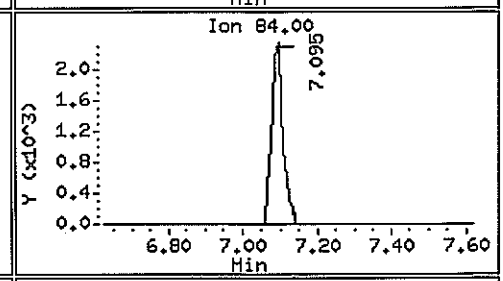


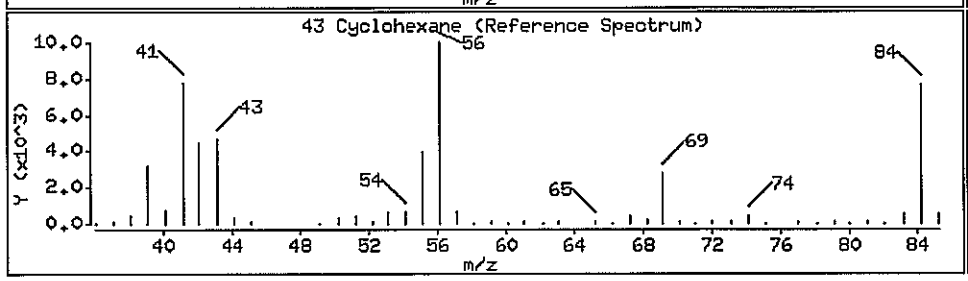
43 Cyclohexane Concentration: 0.67 ug/l

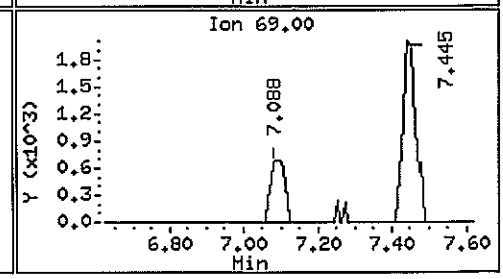












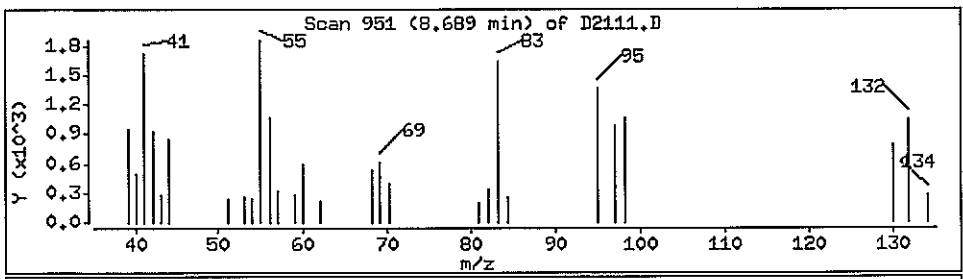
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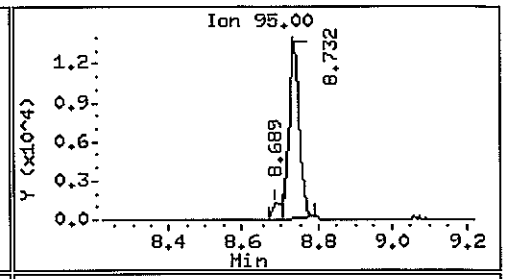
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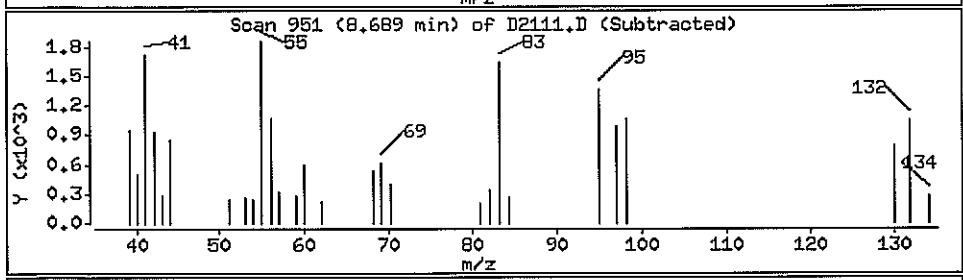
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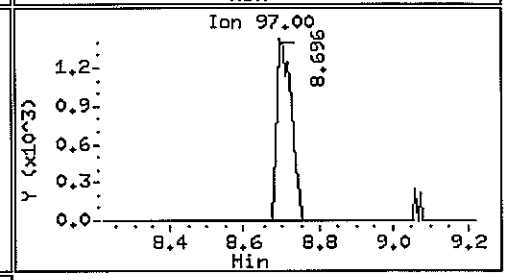
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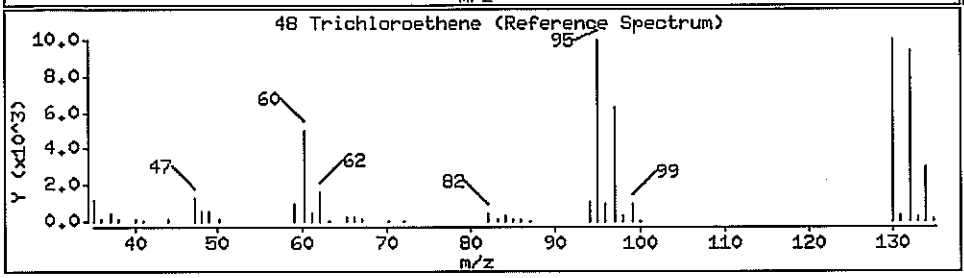
48 Trichloroethene Concentration: 0.34 ug/l



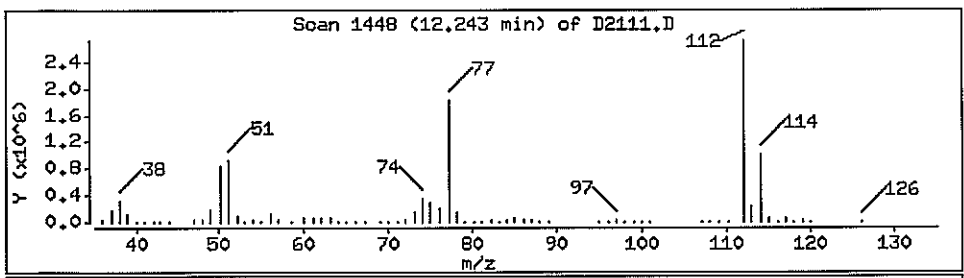


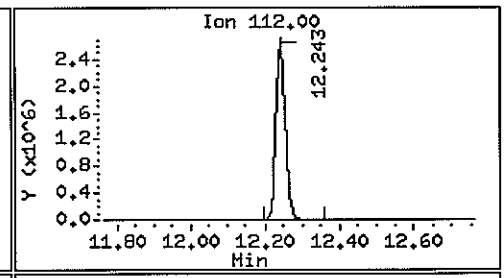


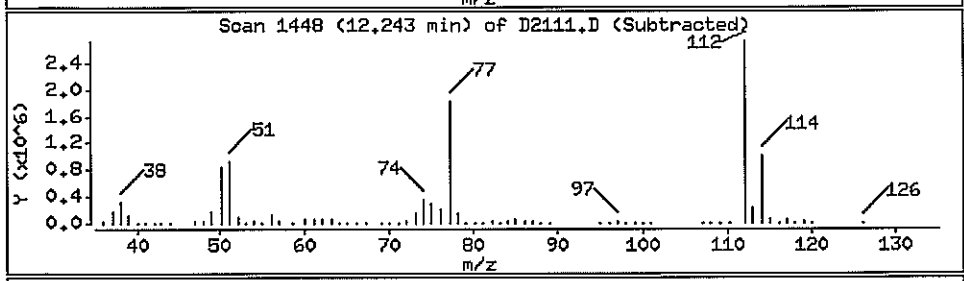


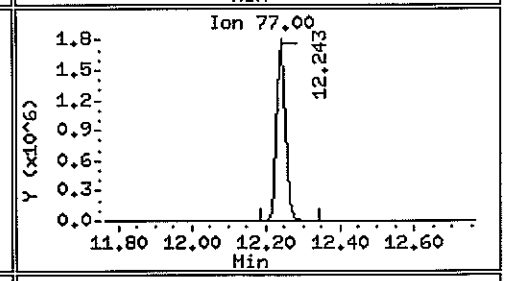


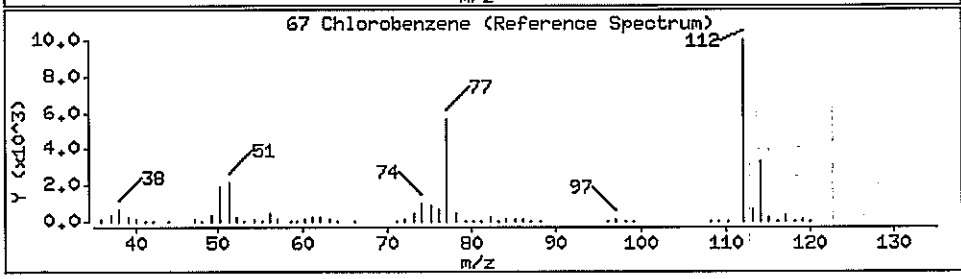
67 Chlorobenzene Concentration: 290 ug/l

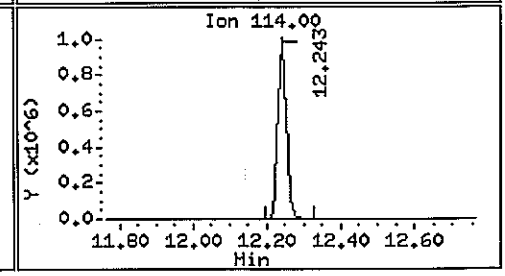












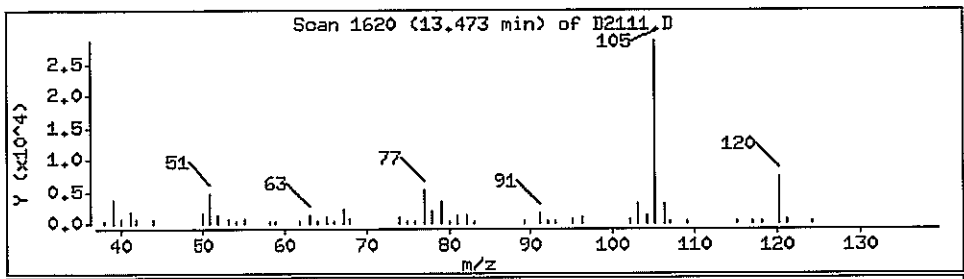
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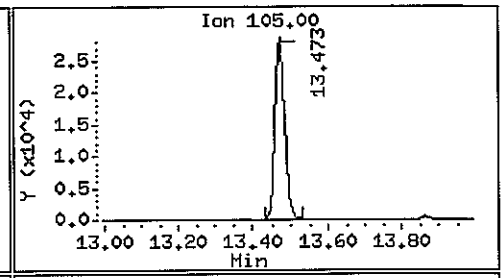
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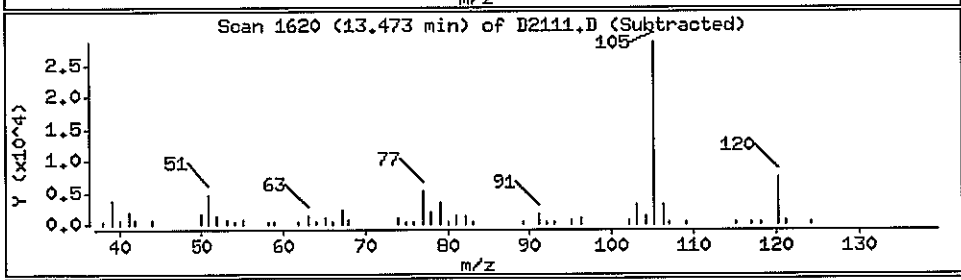
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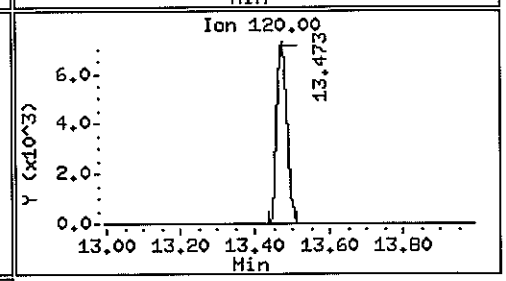
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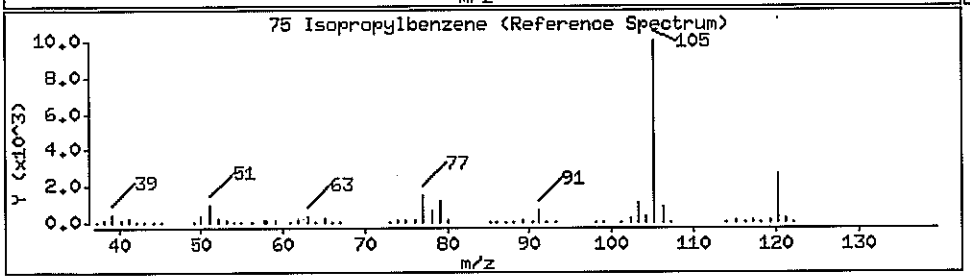
75 Isopropylbenzene Concentration: 2.0 ug/l



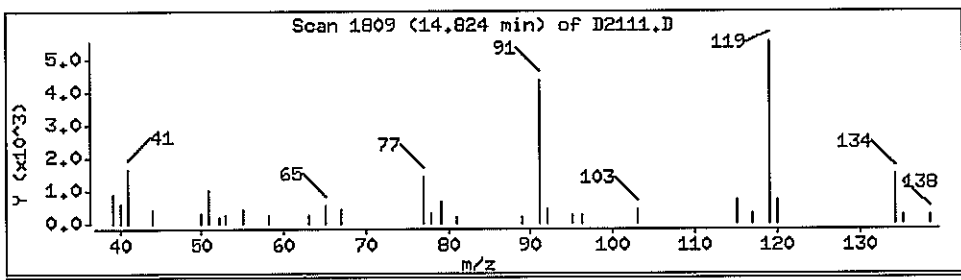


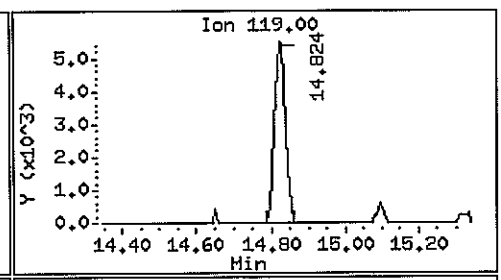


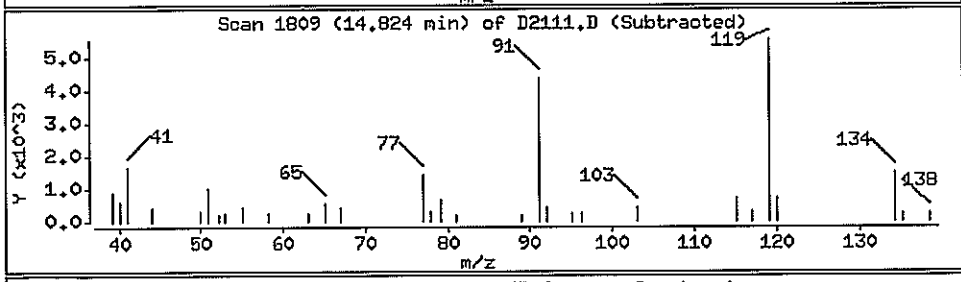


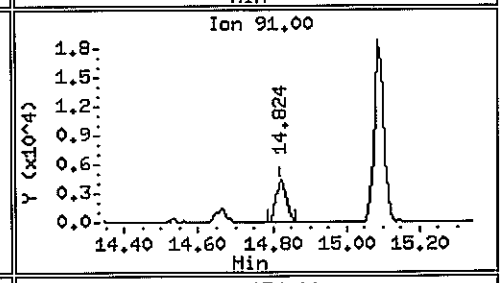


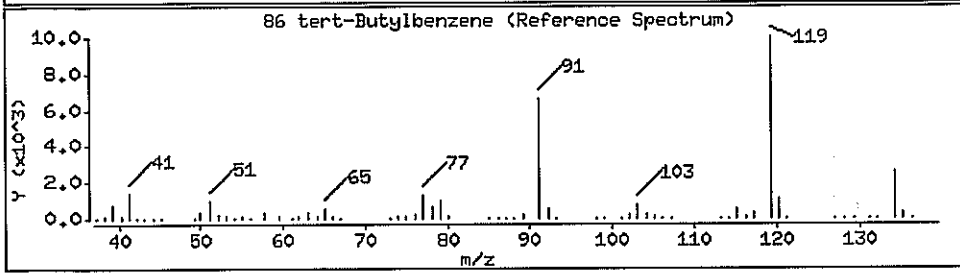
86 tert-Butylbenzene Concentration: 0.53 ug/l

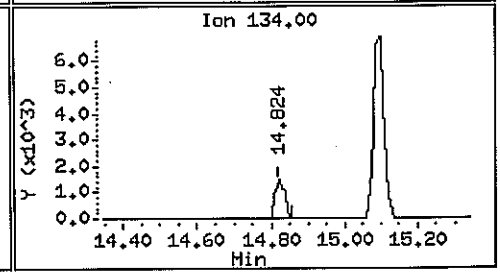












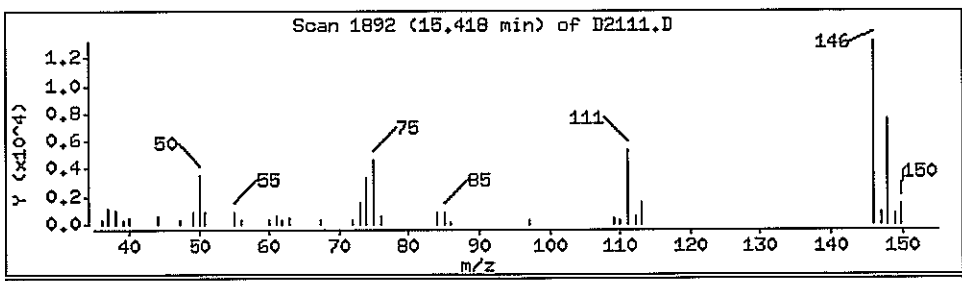
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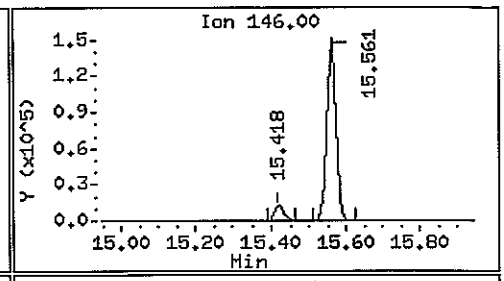
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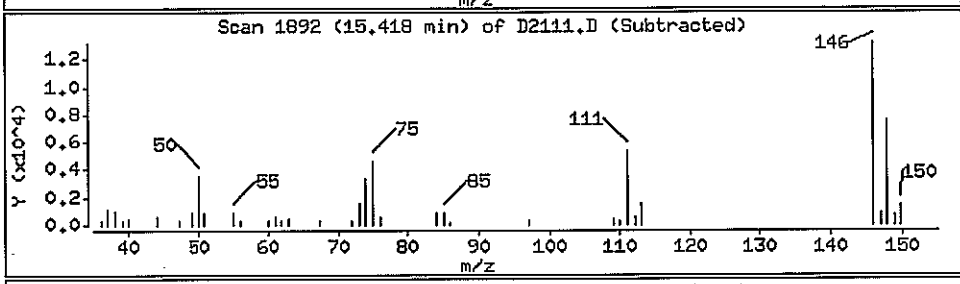
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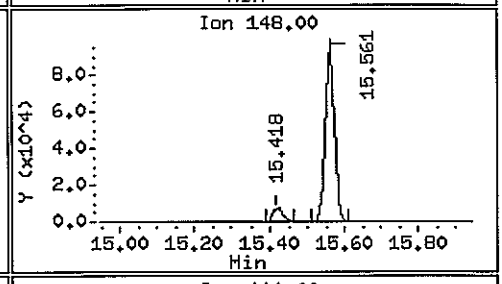
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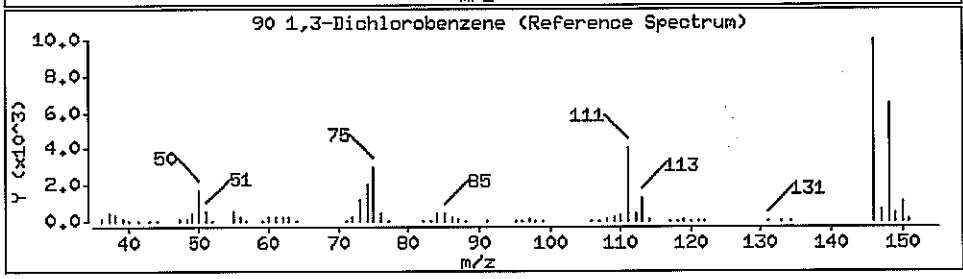
90 1,3-Dichlorobenzene Concentration: 1.8 ug/l

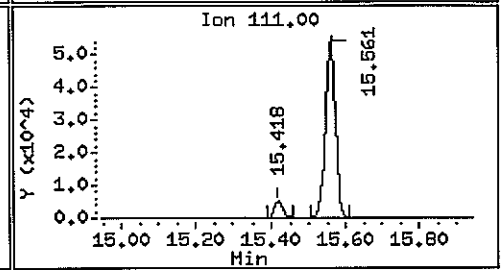




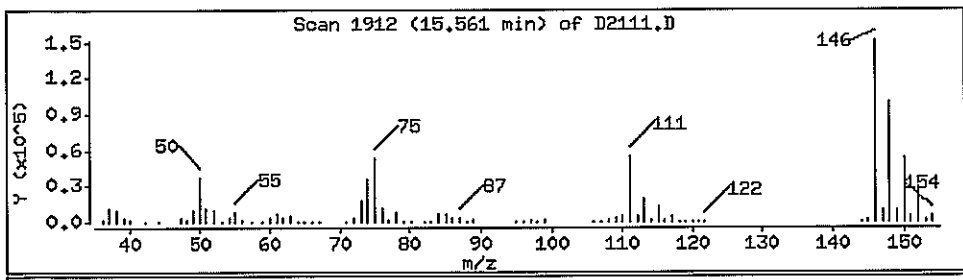


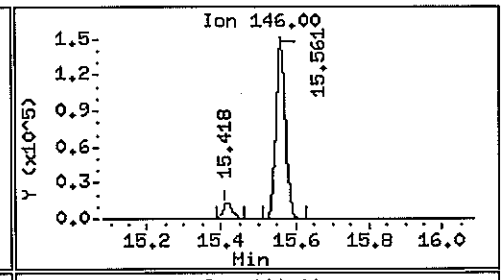


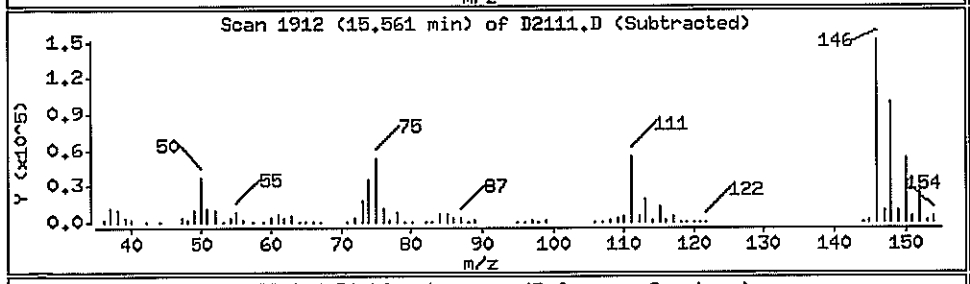


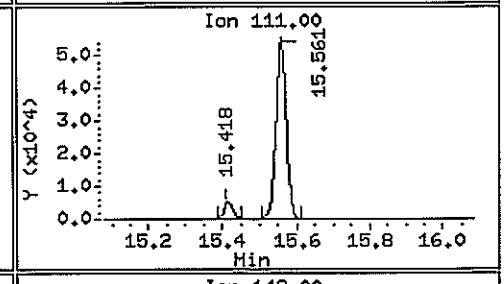


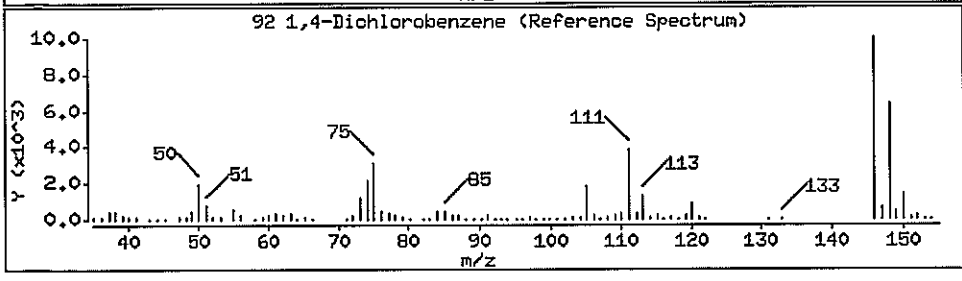
92 1,4-Dichlorobenzene Concentration: 18.9 ug/l

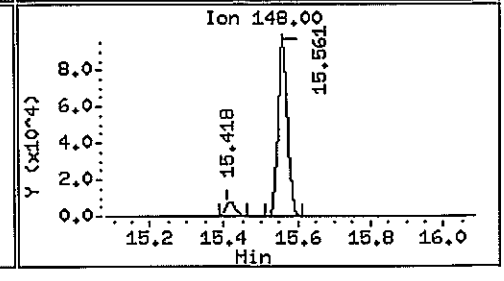












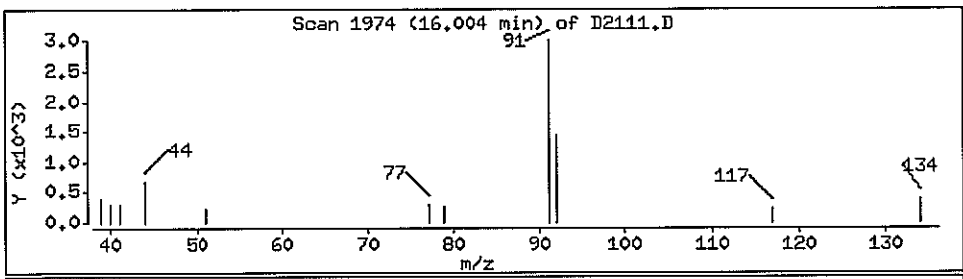
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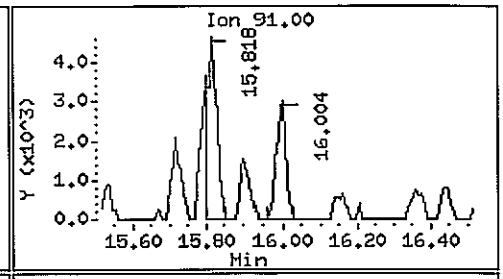
Date : 03-OCT-2012 15:54

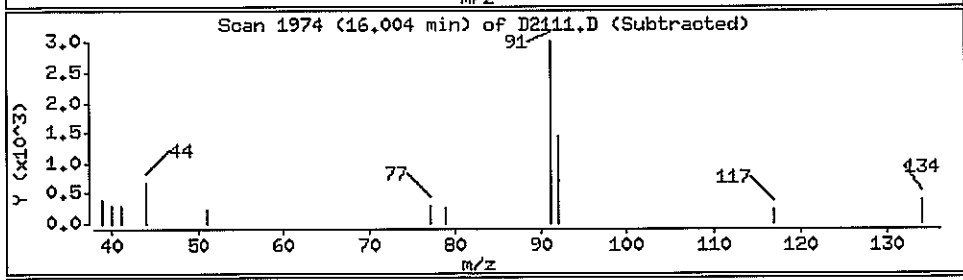
Client ID: A0C9-MW15PM092612 Instrument: gcms-d.i

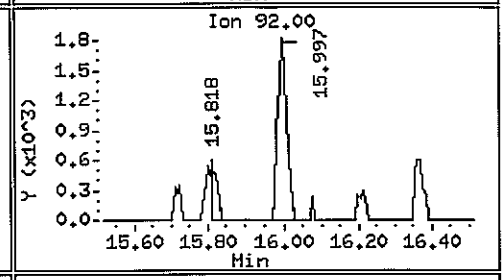
Sample Info: SF6628-7

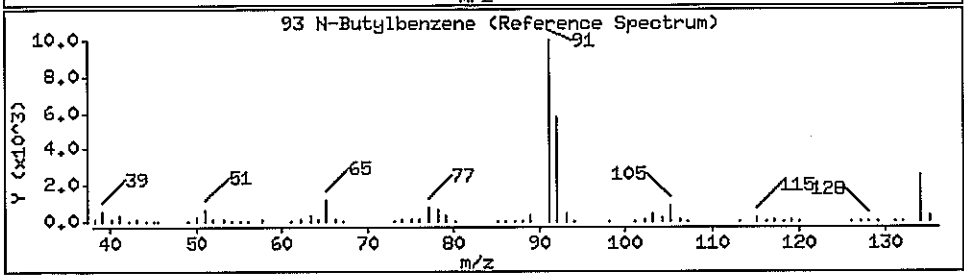
93 N-Butylbenzene Concentration: 0.23 ug/l

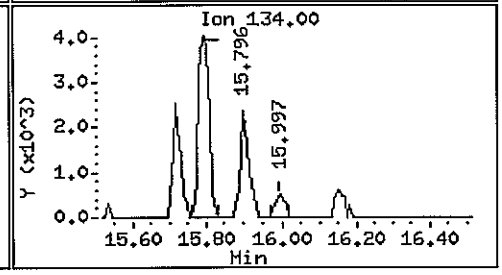




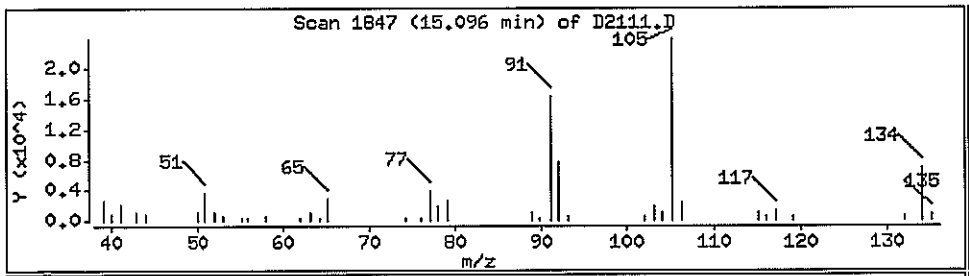


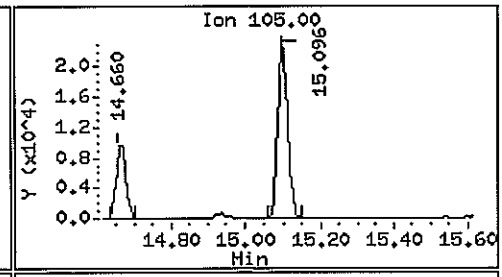


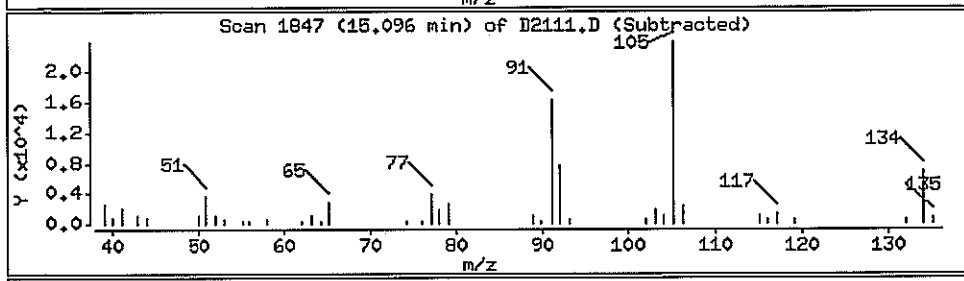


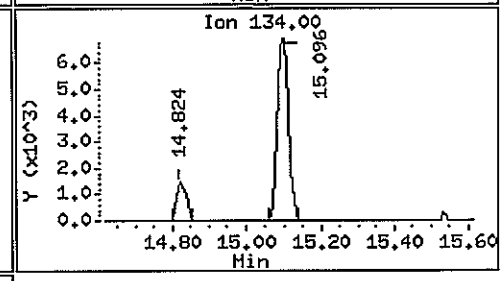


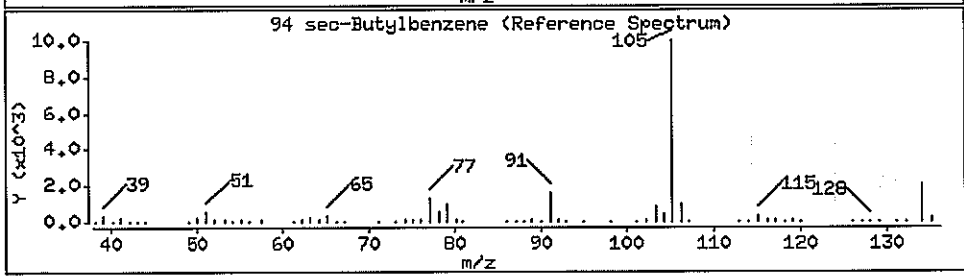
94 sec-Butylbenzene Concentration: 1.5 ug/l











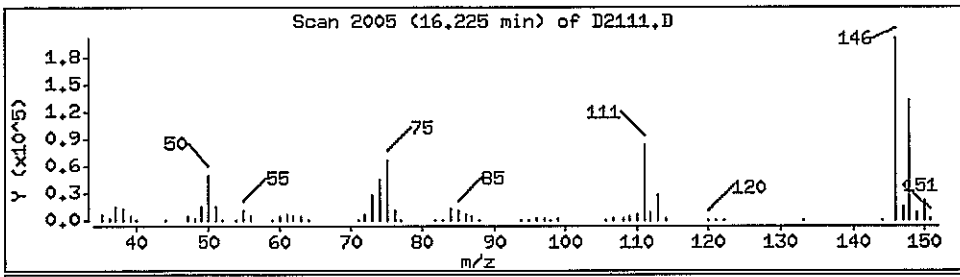
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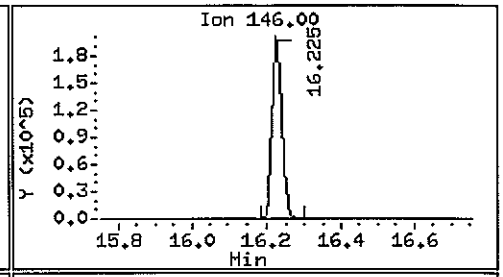
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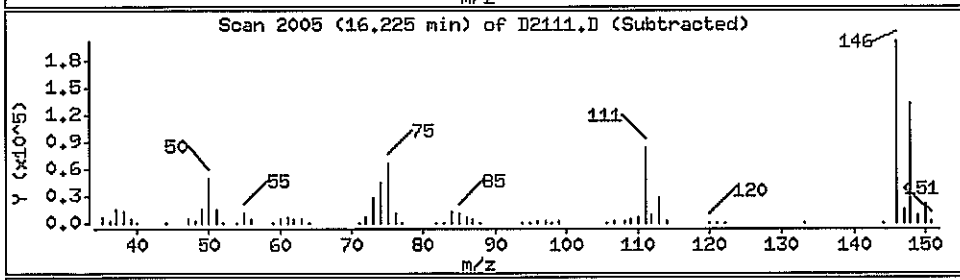
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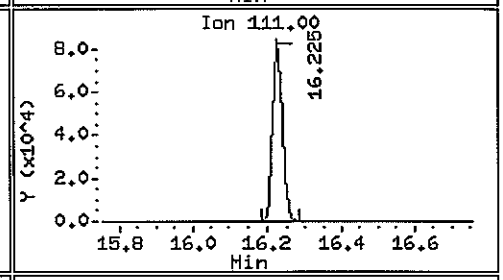
Sample Info: SF6628-7

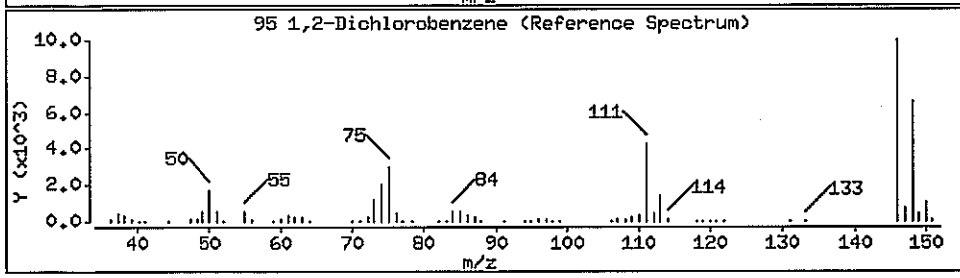
95 1,2-Dichlorobenzene Concentration: 30.9 ug/l

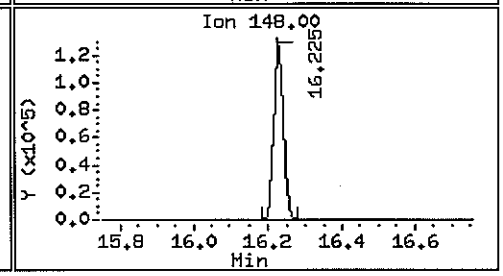












Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-7DL
Client ID: AOC9-MW15PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2135.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 04-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114400

Analysis Date: 04-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	8.0	ug/L	4	2	8.0	0.96	4.0
Chloromethane	U	8.0	ug/L	4	2	8.0	1.4	4.0
Vinyl Chloride	J	2.2	ug/L	4	2	8.0	1.0	4.0
Bromomethane	U	8.0	ug/L	4	2	8.0	2.0	4.0
Chloroethane	U	8.0	ug/L	4	2	8.0	2.2	4.0
Trichlorofluoromethane	U	8.0	ug/L	4	2	8.0	0.96	4.0
1,1-Dichloroethene	U	4.0	ug/L	4	1	4.0	1.4	2.0
Freon-113	U	4.0	ug/L	4	1	4.0	1.2	2.0
Acetone	U	20.	ug/L	4	5	20.	8.8	10.
Carbon Disulfide	U	4.0	ug/L	4	1	4.0	1.0	2.0
Methyl Acetate	U	4.0	ug/L	4	1	4.0	2.1	3.0
Methylene Chloride	U	20.	ug/L	4	5	20.	4.5	10.
trans-1,2-Dichloroethene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Methyl tert-butyl Ether	U	4.0	ug/L	4	1	4.0	1.4	2.0
1,1-Dichloroethane	U	4.0	ug/L	4	1	4.0	0.84	2.0
cis-1,2-Dichloroethene	U	4.0	ug/L	4	1	4.0	0.84	2.0
2-Butanone	U	20.	ug/L	4	5	20.	5.2	10.
Chloroform	U	4.0	ug/L	4	1	4.0	1.3	2.0
1,1,1-Trichloroethane	U	4.0	ug/L	4	1	4.0	0.80	2.0
Cyclohexane	U	4.0	ug/L	4	1	4.0	1.2	2.0
Carbon Tetrachloride	U	4.0	ug/L	4	1	4.0	0.88	2.0
Benzene	J	2.2	ug/L	4	1	4.0	1.0	2.0
1,2-Dichloroethane	U	4.0	ug/L	4	1	4.0	0.80	2.0
Trichloroethene	U	4.0	ug/L	4	1	4.0	1.1	2.0
Methylcyclohexane	U	4.0	ug/L	4	1	4.0	1.2	2.0
1,2-Dichloropropane	U	4.0	ug/L	4	1	4.0	1.0	2.0
Bromodichloromethane	U	4.0	ug/L	4	1	4.0	1.3	2.0
cis-1,3-Dichloropropene	U	4.0	ug/L	4	1	4.0	0.76	2.0
4-Methyl-2-Pentanone	UL	20.	ug/L	4	5	20.	5.3	10.
Toluene	U	4.0	ug/L	4	1	4.0	1.1	2.0
trans-1,3-Dichloropropene	U	4.0	ug/L	4	1	4.0	0.80	2.0
1,1,2-Trichloroethane	U	4.0	ug/L	4	1	4.0	1.3	2.0
Tetrachloroethene	U	4.0	ug/L	4	1	4.0	1.6	2.0
2-Hexanone	UL	20.	ug/L	4	5	20.	6.8	10.
Dibromochloromethane	U	4.0	ug/L	4	1	4.0	1.2	2.0

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-7DL
Client ID: AOC9-MW15PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2135.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 04-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114400

Analysis Date: 04-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	4.0	ug/L	4	1	4.0	0.88	2.0
Chlorobenzene		290	ug/L	4	1	4.0	0.88	2.0
Ethylbenzene	U	4.0	ug/L	4	1	4.0	0.84	2.0
M+P-Xylenes	U	8.0	ug/L	4	2	8.0	2.4	4.0
o-Xylene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Styrene	U	4.0	ug/L	4	1	4.0	0.92	2.0
Bromoform	UCL	4.0	ug/L	4	1	4.0	0.92	2.0
Isopropylbenzene	J	1.3	ug/L	4	1	4.0	0.92	2.0
1,1,2,2-Tetrachloroethane	U	4.0	ug/L	4	1	4.0	1.5	2.0
1,3-Dichlorobenzene	J	1.4	ug/L	4	1	4.0	1.0	2.0
1,4-Dichlorobenzene		17.	ug/L	4	1	4.0	0.96	2.0
1,2-Dichlorobenzene		26.	ug/L	4	1	4.0	0.60	2.0
1,2-Dibromo-3-Chloropropane	UC	4.0	ug/L	4	1	4.0	2.0	2.0
1,2,4-Trichlorobenzene	U	4.0	ug/L	4	1	4.0	1.5	2.0
bromochloromethane	U	4.0	ug/L	4	1	4.0	0.84	2.0
1,4-Dioxane	UC	400	ug/L	4	100	400	35.	200
1,2,3-trichlorobenzene	U	4.0	ug/L	4	1	4.0	1.1	2.0
1,3,5-Trimethylbenzene	U	4.0	ug/L	4	1	4.0	0.80	2.0
1,2,4-Trimethylbenzene	U	4.0	ug/L	4	1	4.0	0.76	2.0
4-Chlorotoluene	U	4.0	ug/L	4	1	4.0	0.76	2.0
n-Butylbenzene	U	4.0	ug/L	4	1	4.0	0.92	2.0
n-Propylbenzene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Naphthalene	UC	4.0	ug/L	4	1	4.0	1.2	2.0
p-Isopropyltoluene	U	4.0	ug/L	4	1	4.0	1.0	2.0
sec-Butylbenzene	J	0.94	ug/L	4	1	4.0	0.84	2.0
tert-Butylbenzene	U	4.0	ug/L	4	1	4.0	1.2	2.0
1,2-Dichloroethane-d4		104.	%					
Toluene-d8		102.	%					
P-Bromofluorobenzene		94.3	%					
Dibromofluoromethane		106.	%					

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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-d.i\D100412.b\D2135.D
Report Date: 15-Oct-2012 11:33

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D100412.b\D2135.D
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Inj Date : 04-OCT-2012 17:31 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : SF6628-7DL
Misc Info : WG114400,WG114145-4
Comment : SW846 5030
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Meth Date : 15-Oct-2012 11:26 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 12
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

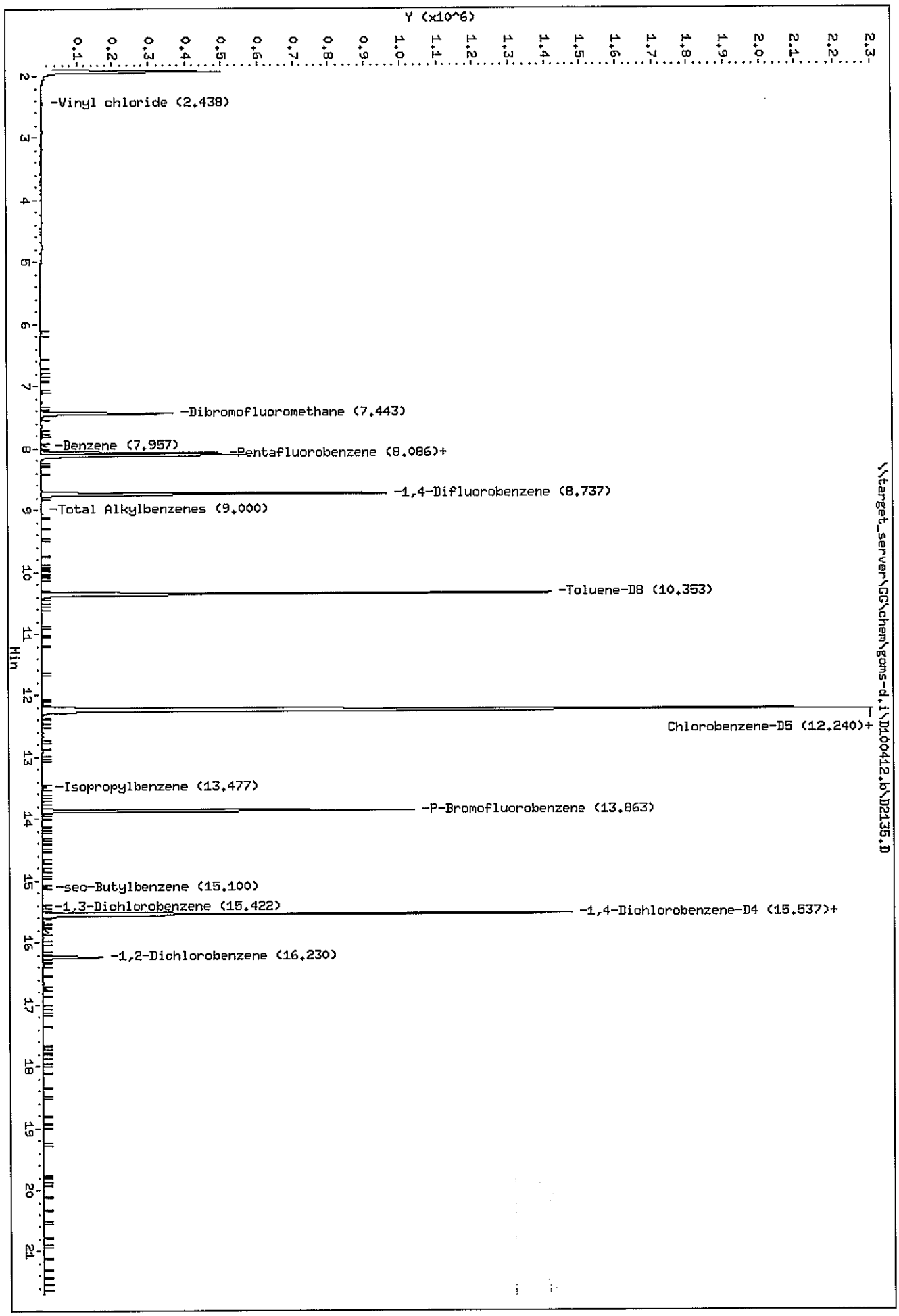
Name	Value	Description
DF	4.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	3 Vinyl chloride	62	2.437	2.444	(0.301)	2984	0.53764	2.2(a)	
$	37 Dibromofluoromethane	113	7.442	7.463	(0.920)	215513	53.1183	53.1	
	41 Benzene	78	7.957	7.978	(0.911)	10756	0.54753	2.2(aM)	M10
*	42 Pentafluorobenzene	168	8.086	8.100	(1.000)	409717	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.121	8.143	(1.004)	283535	51.7636	51.8	
*	49 1,4-Difluorobenzene	114	8.736	8.757	(1.000)	723886	50.0000		
$	55 Toluene-D8	98	10.359	10.373	(1.186)	886243	50.8844	50.9	
*	66 Chlorobenzene-D5	117	12.218	12.240	(1.000)	702041	50.0000		
	67 Chlorobenzene	112	12.240	12.261	(1.002)	995341	72.0829	288	
	75 Isopropylbenzene	105	13.477	13.491	(0.867)	7214	0.33395	1.3(a)	
$	76 P-Bromofluorobenzene	95	13.863	13.877	(1.587)	339396	47.1550	47.2	
	90 1,3-Dichlorobenzene	146	15.422	15.443	(0.993)	3802	0.36219	1.4(aM)	M10
*	91 1,4-Dichlorobenzene-D4	152	15.536	15.557	(1.000)	385752	50.0000		
	92 1,4-Dichlorobenzene	146	15.565	15.579	(1.002)	49906	4.29262	17.2	
	94 sec-Butylbenzene	105	15.100	15.114	(0.972)	5498	0.23615	0.94(a)	
	95 1,2-Dichlorobenzene	146	16.230	16.251	(1.045)	63414	6.39717	25.6	
M	153 Total Alkylbenzenes	100				5498	0.23615	0.94(a)	

WG 10-15-12

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Y (x10^6)
Min
-Vinyl chloride (2.438)
-Dibromofluoromethane (7.443)
-Benzene (7.957)
-Pentafluorobenzene (8.086)+
-1,4-Difluorobenzene (8.737)
-Total Alkylbenzenes (9.000)
-Toluene-D8 (10.353)
Chlorobenzene-D5 (12.240)+
-Isopropylbenzene (13.477)
-P-Bromofluorobenzene (13.863)
-sec-Butylbenzene (15.100)
-1,3-Dichlorobenzene (15.422)
-1,4-Dichlorobenzene-D4 (15.537)+
-1,2-Dichlorobenzene (16.230)
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Date : 04-OCT-2012 17:31
Client ID: AOC9-MW15PM092612
Sample Info: SF6628-7DL
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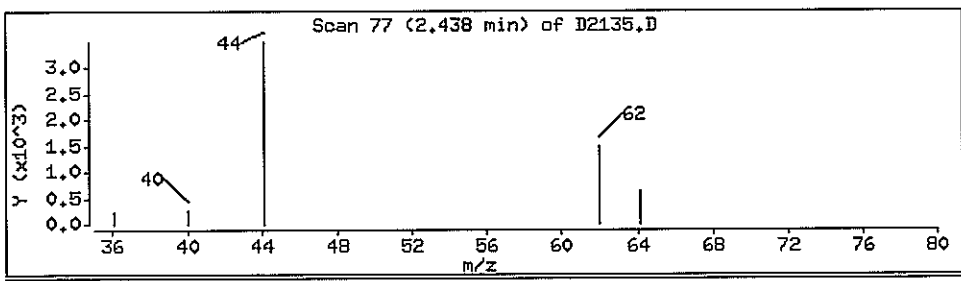
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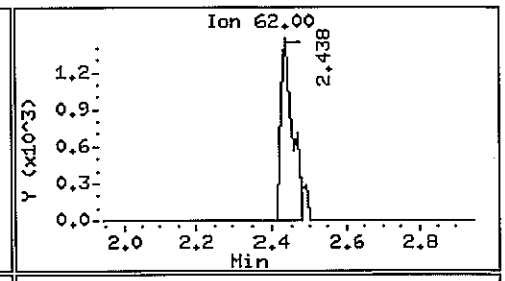
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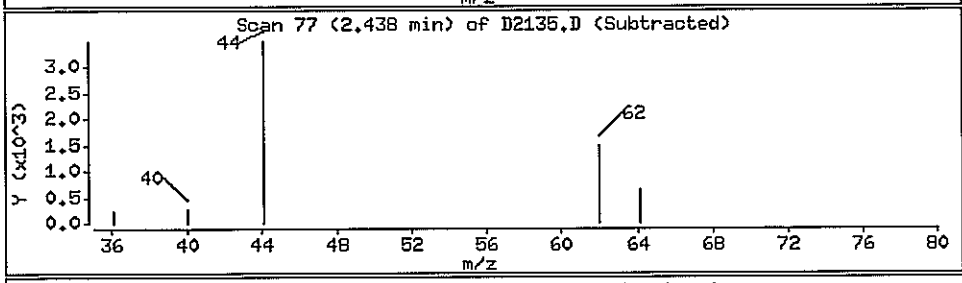
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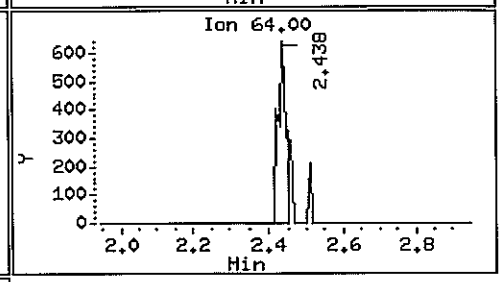
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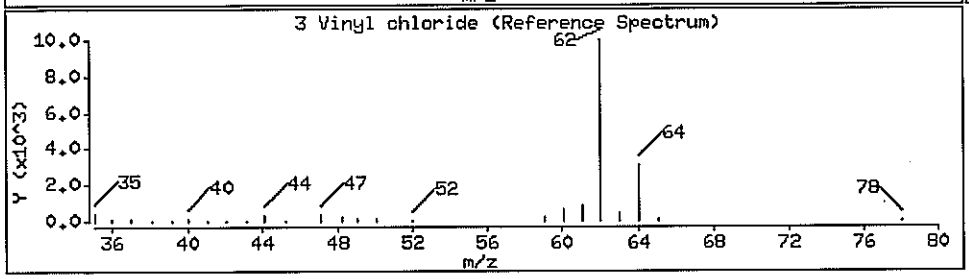
3 Vinyl chloride Concentration: 2.2 ug/l



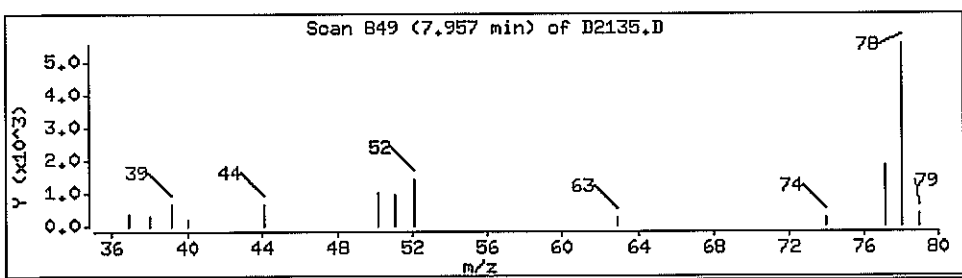


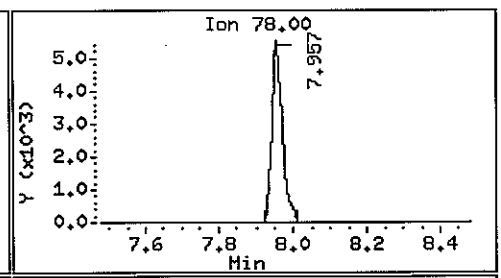


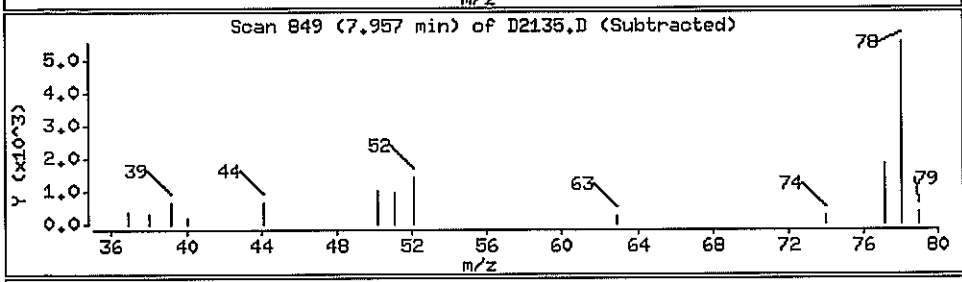


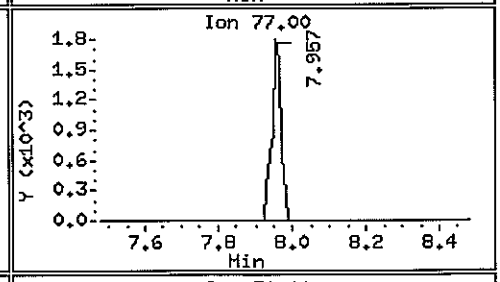


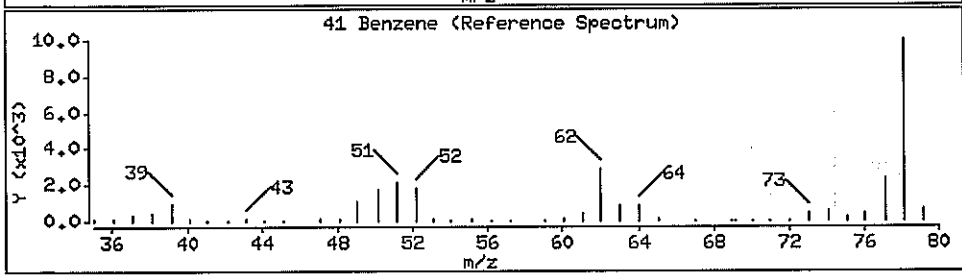
41 Benzene Concentration: 2.2 ug/l

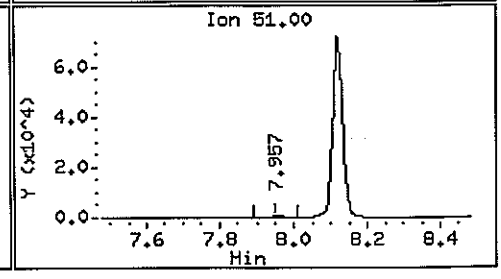












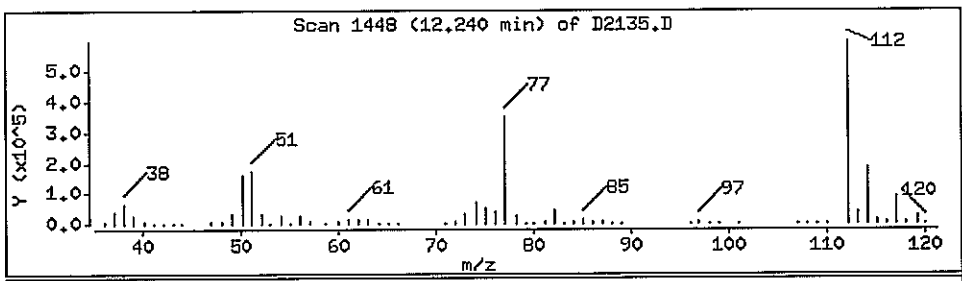
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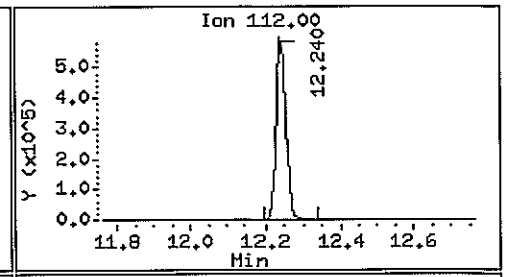
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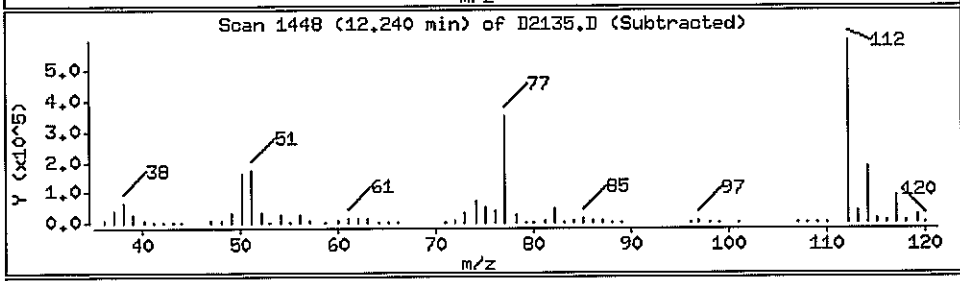
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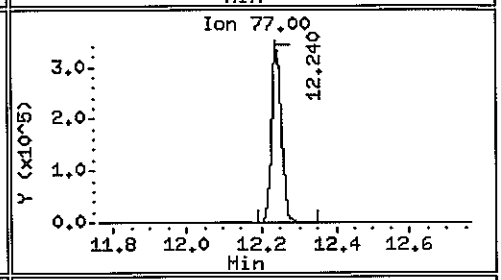
Sample Info: SF6628-7DL

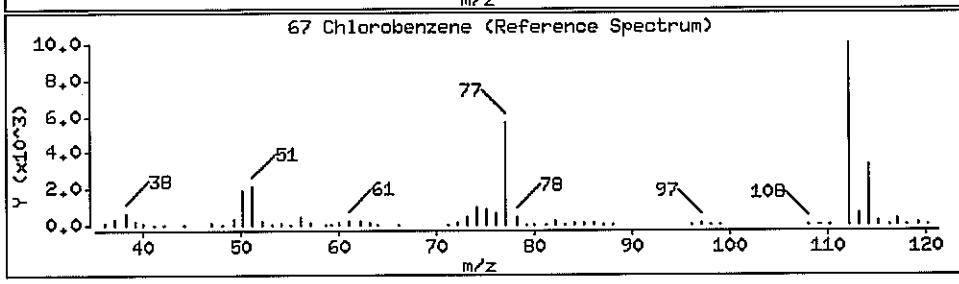
67 Chlorobenzene Concentration: 288 ug/l

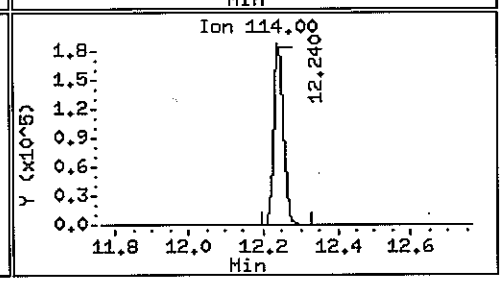




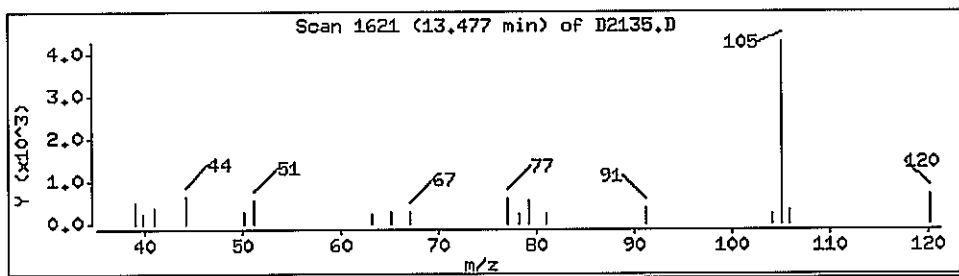


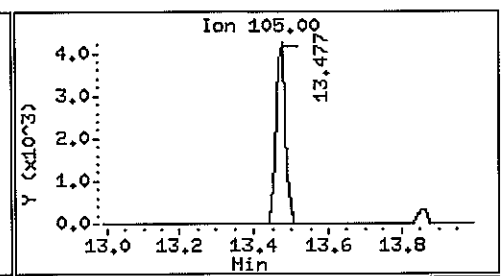


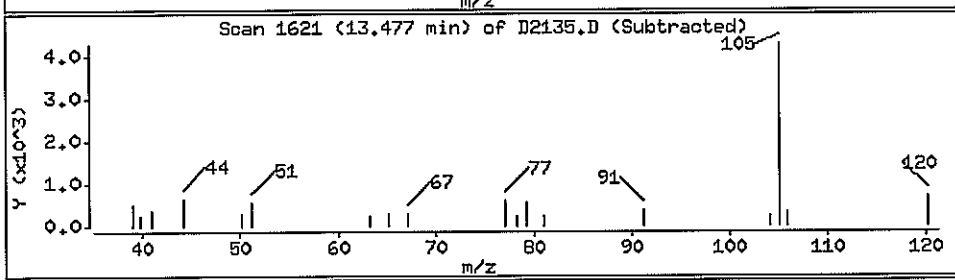


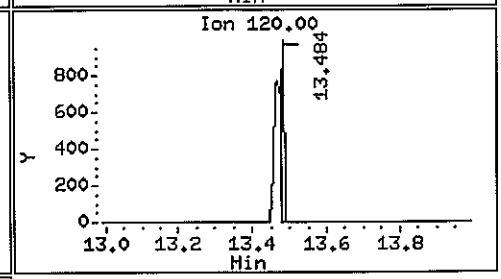


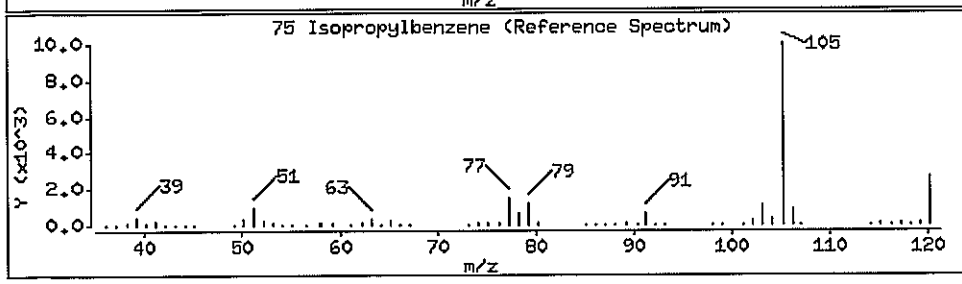
75 Isopropylbenzene Concentration: 1.3 ug/l











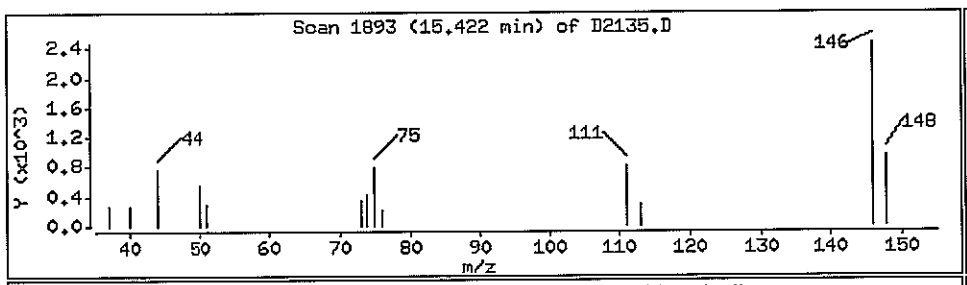
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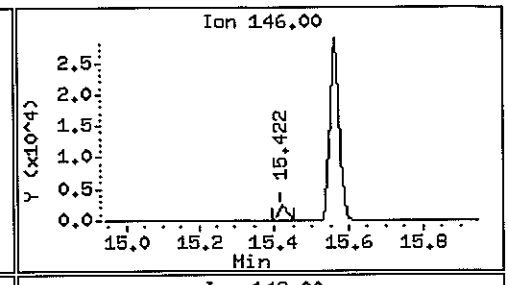
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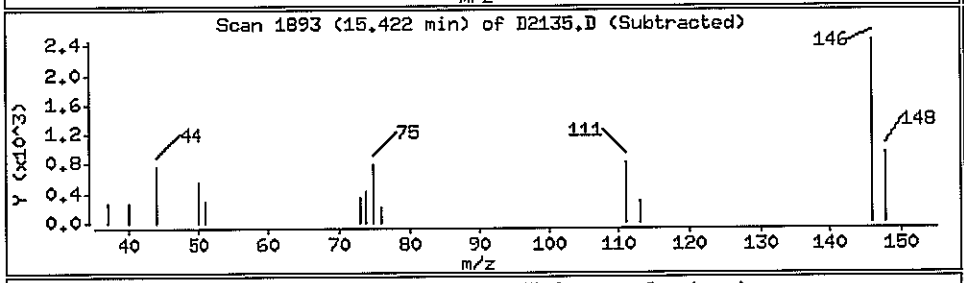
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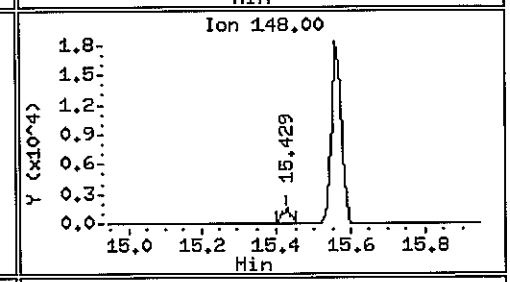
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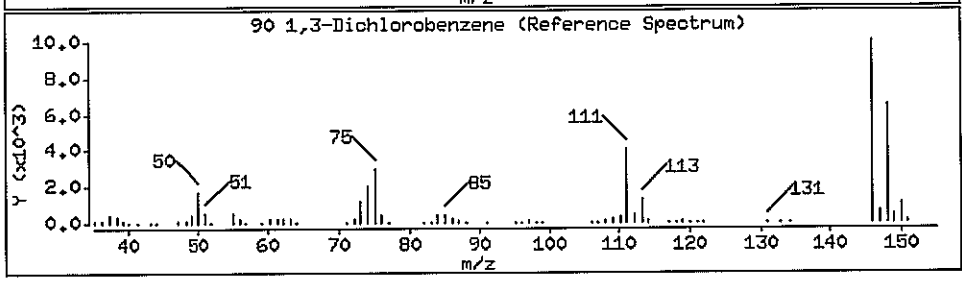
90 1,3-Dichlorobenzene Concentration: 1.4 ug/l

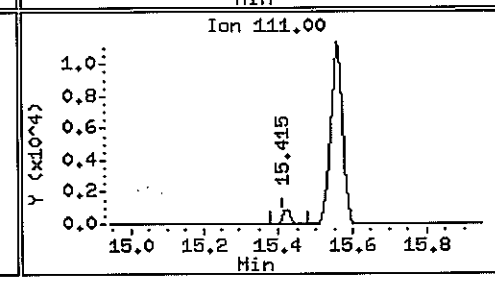




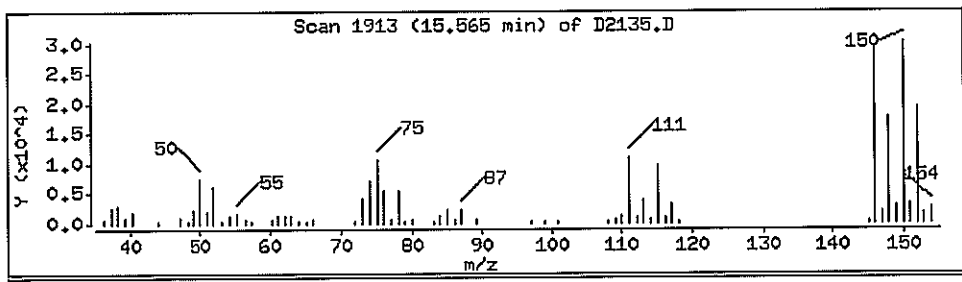


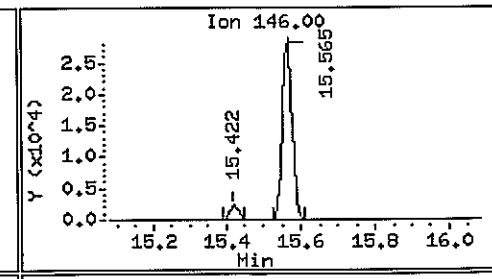


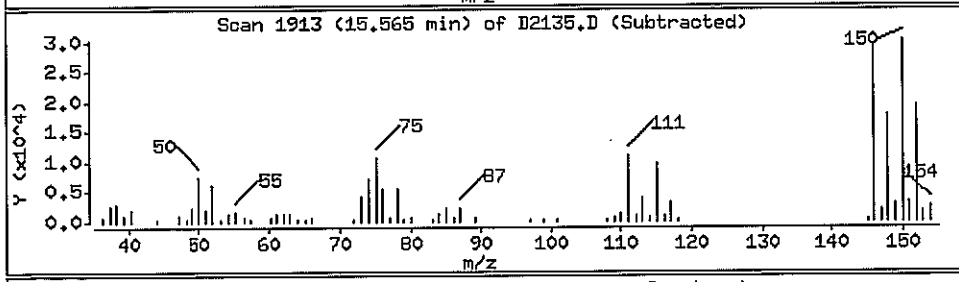


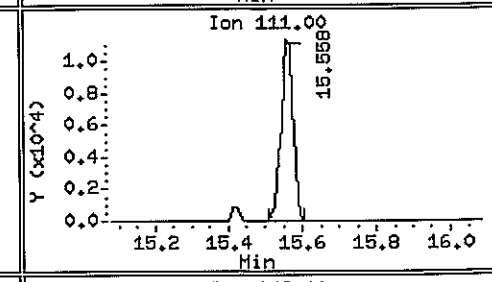


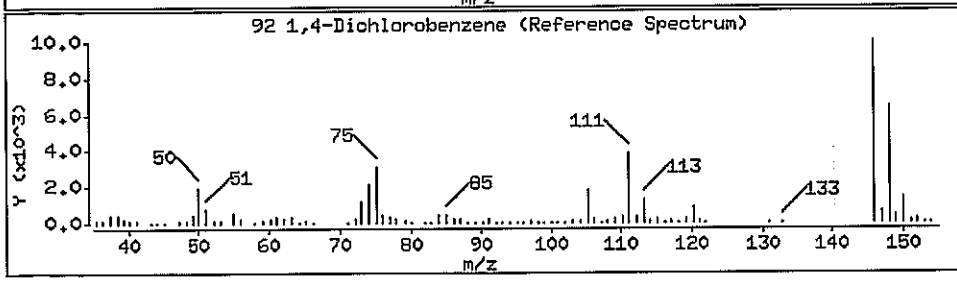
92 1,4-Dichlorobenzene Concentration: 17.2 ug/l

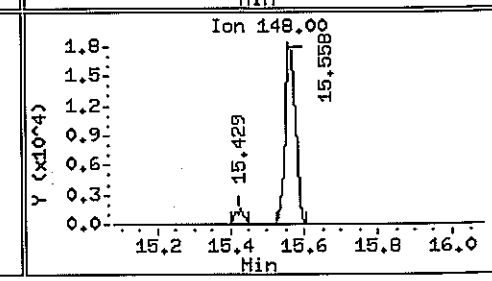












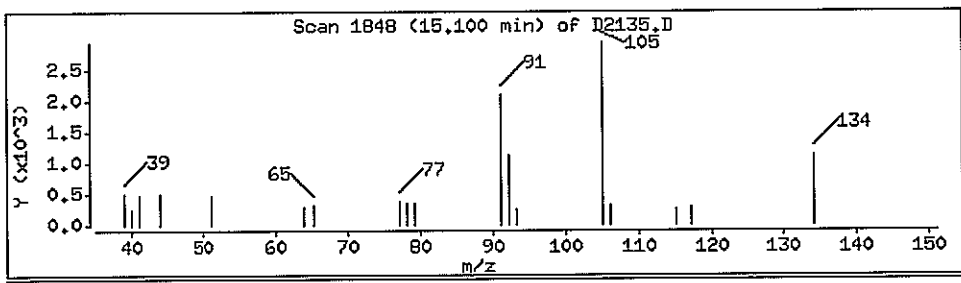
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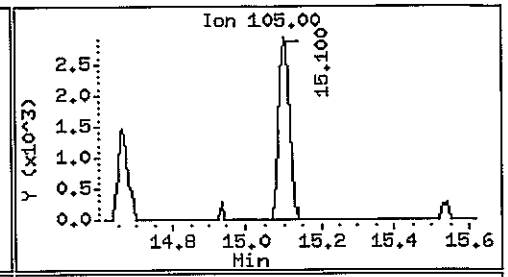
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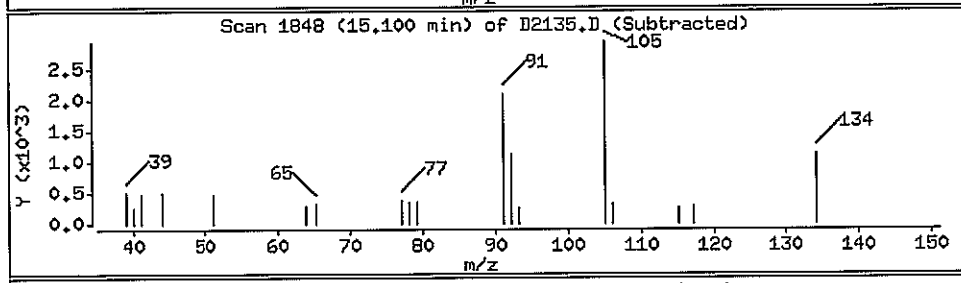
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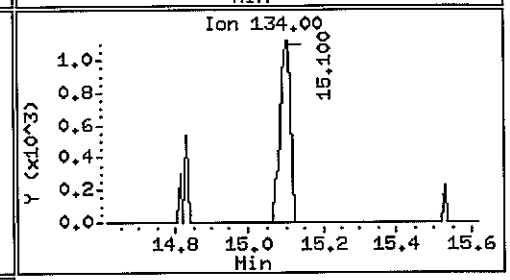
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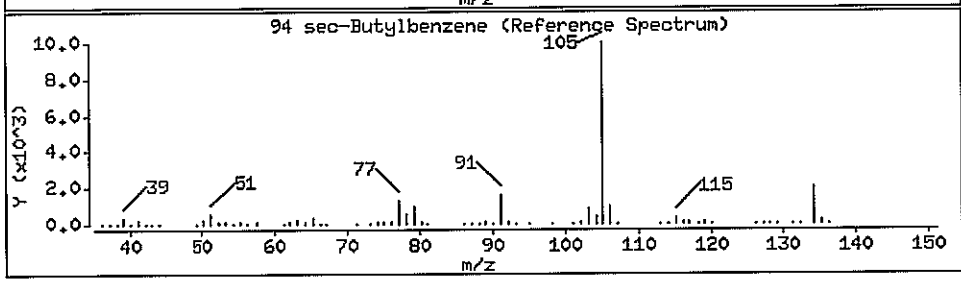
94 sec-Butylbenzene Concentration: 0.94 ug/l



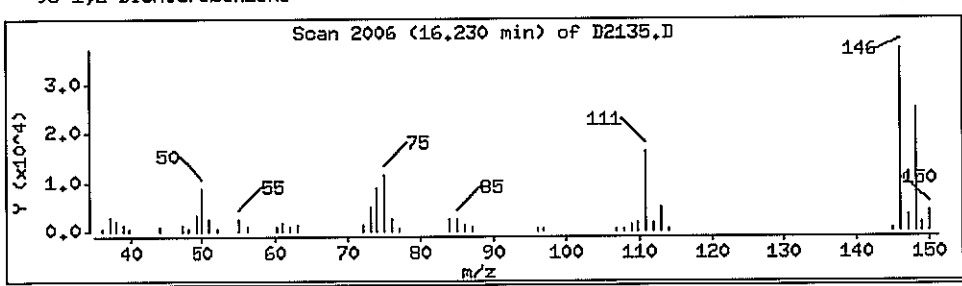


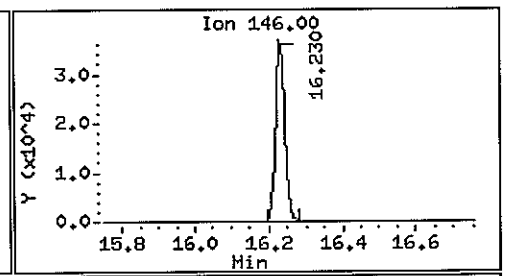


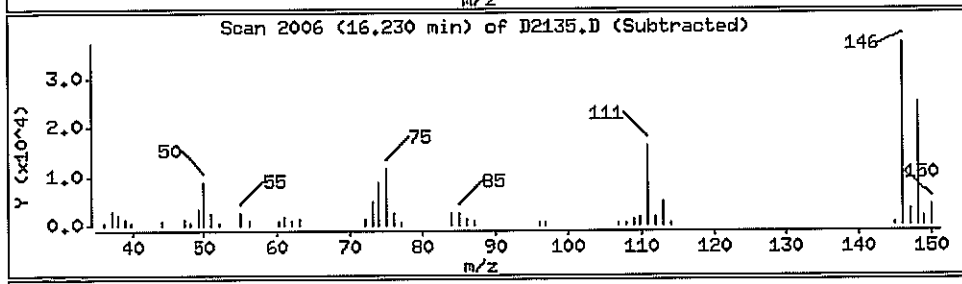


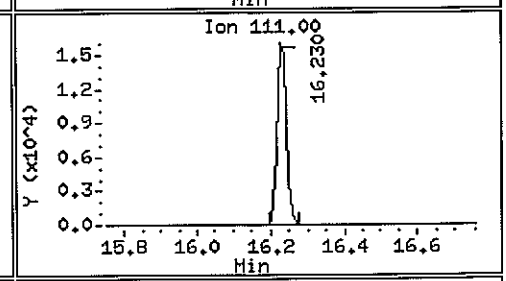


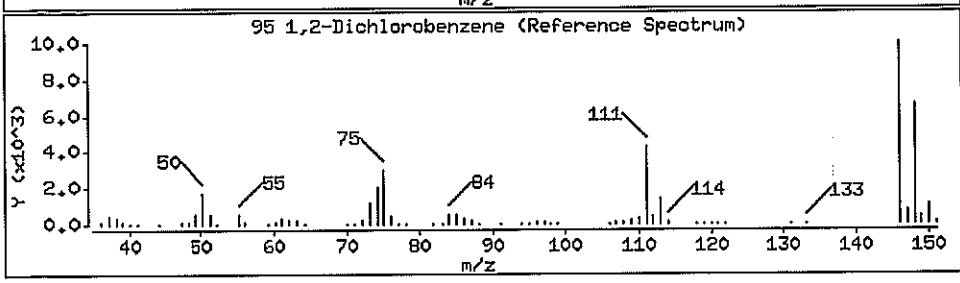
95 1,2-Dichlorobenzene Concentration: 25.6 ug/l

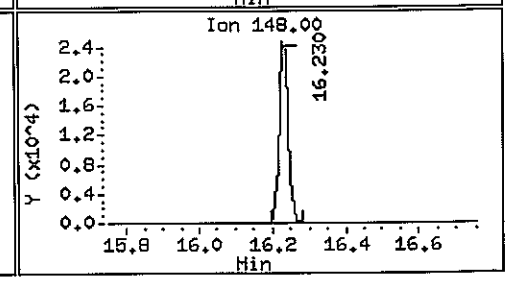








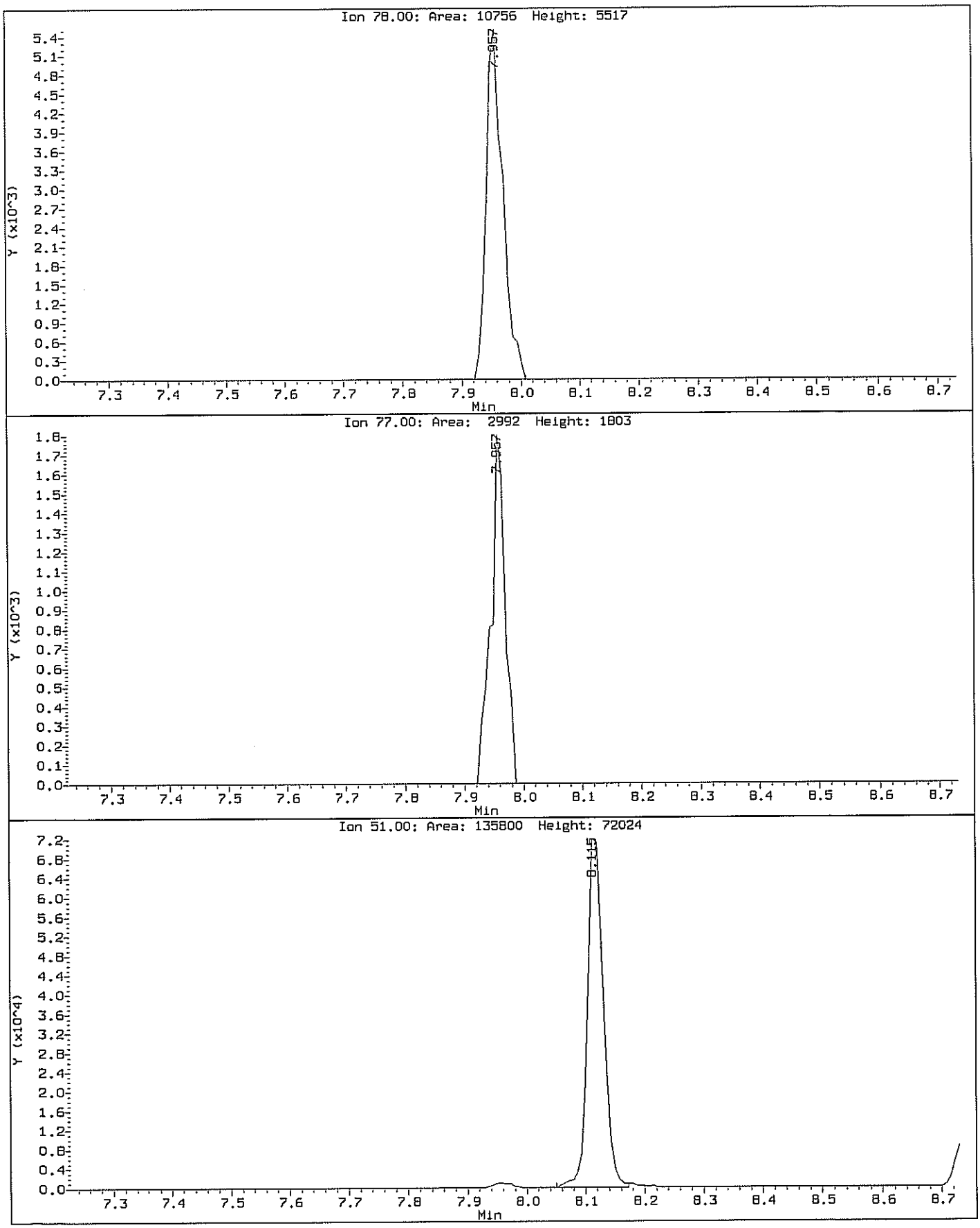




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Client Sample ID: AOC9-MW15PM092612

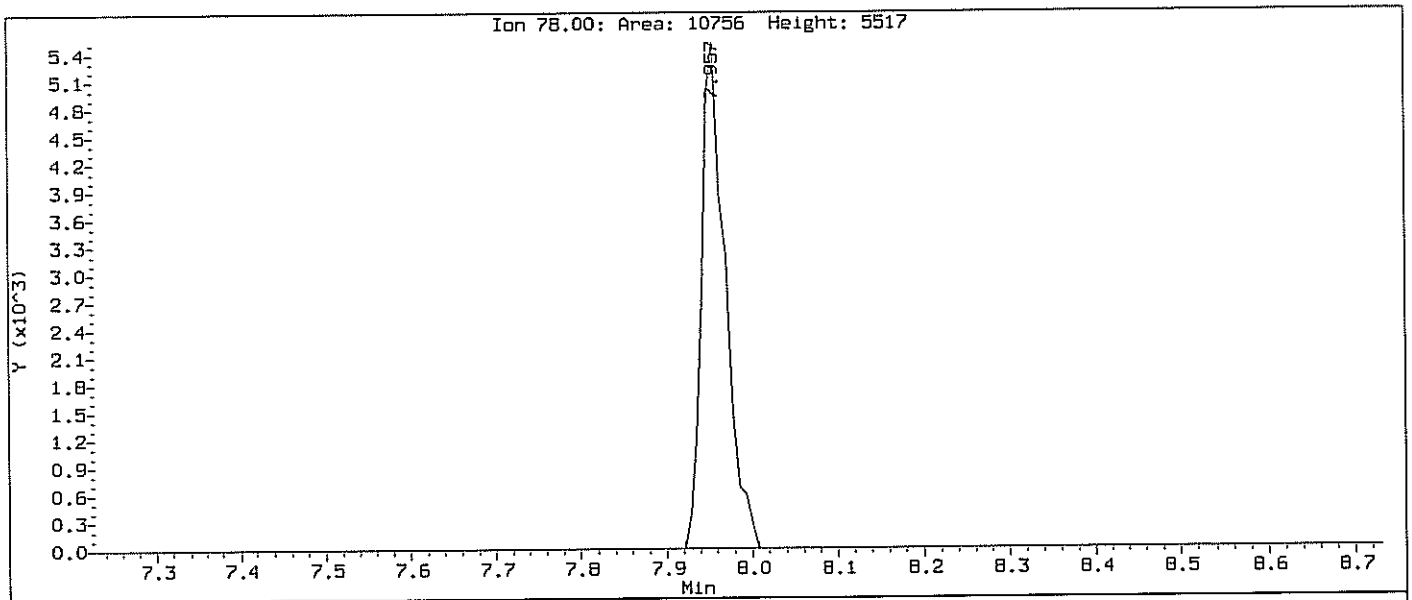
Compound: Benzene
CAS Number: 71-43-2

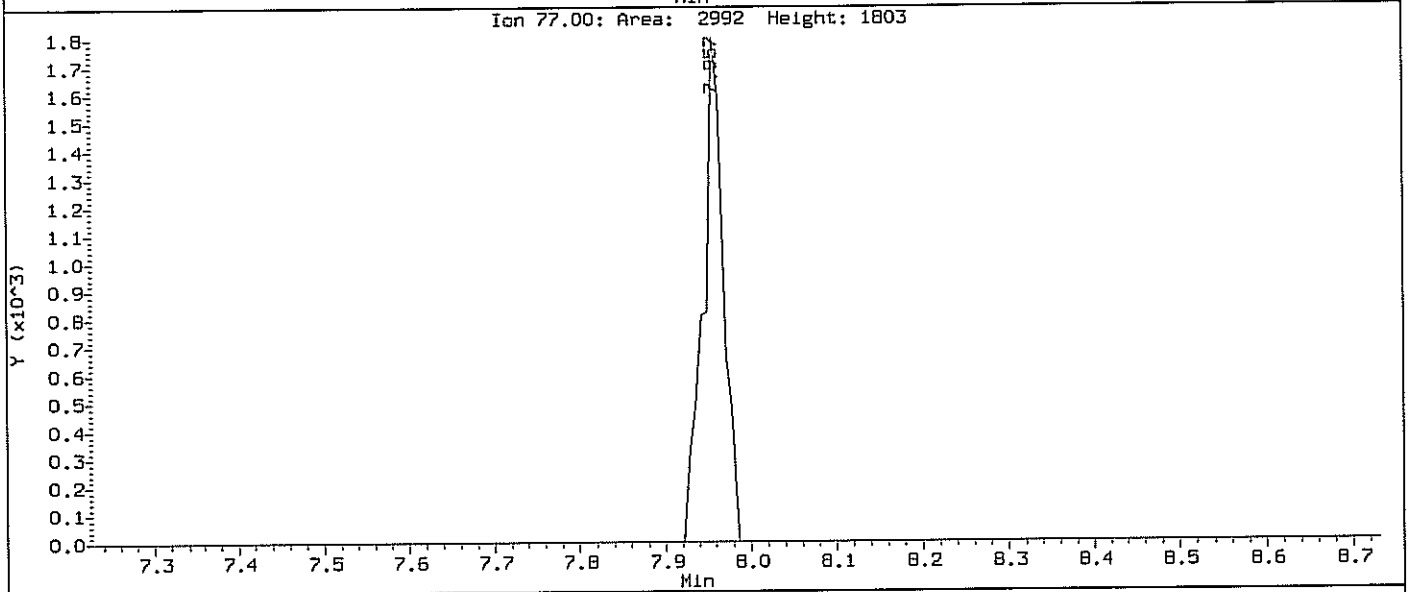
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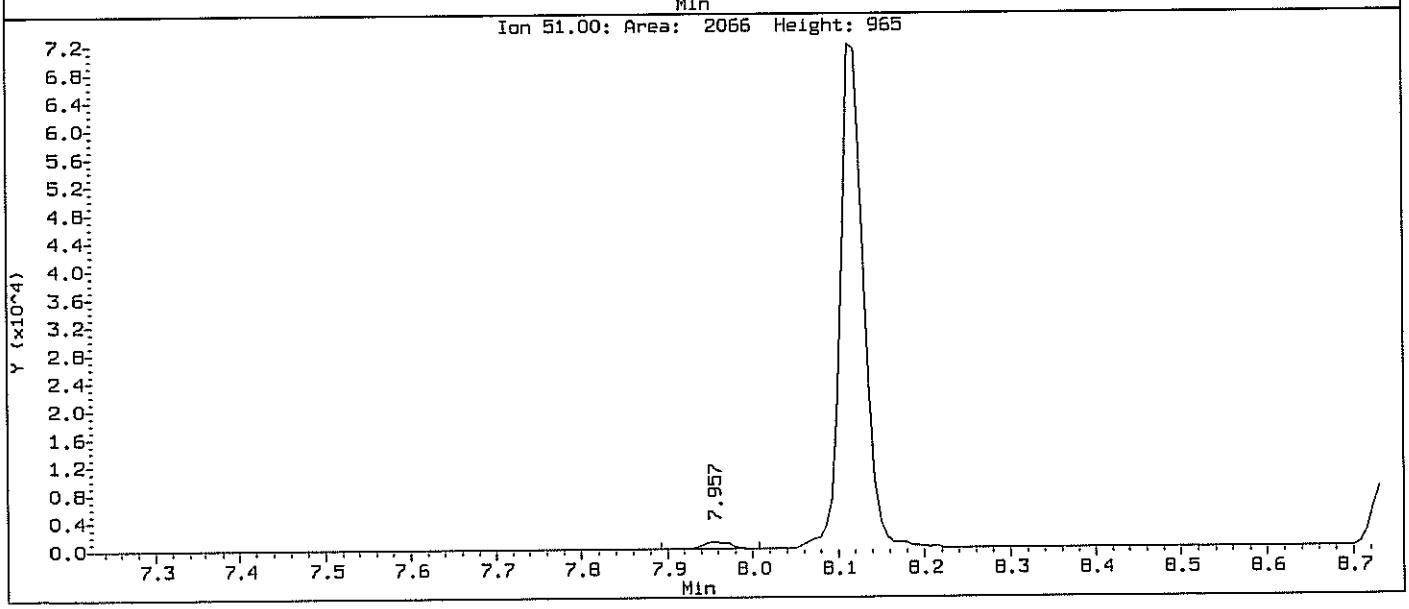


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Client Sample ID: AOC9-MW15PM092612

Compound: Benzene
CAS Number: 71-43-2



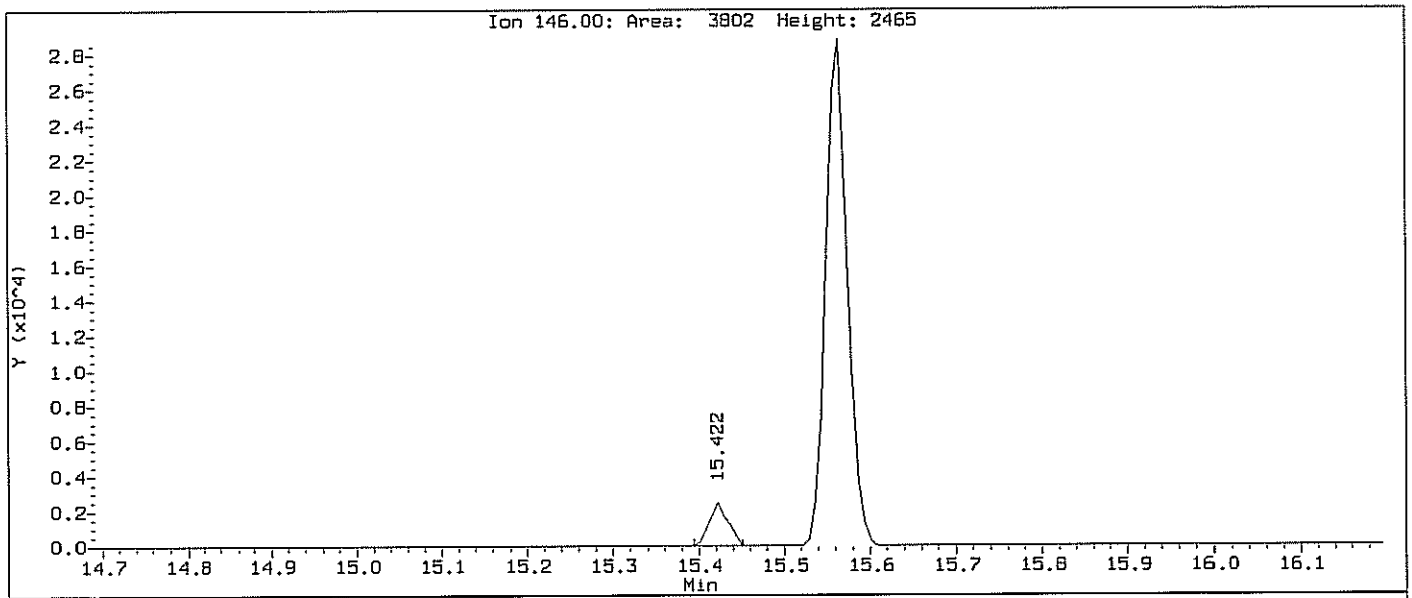


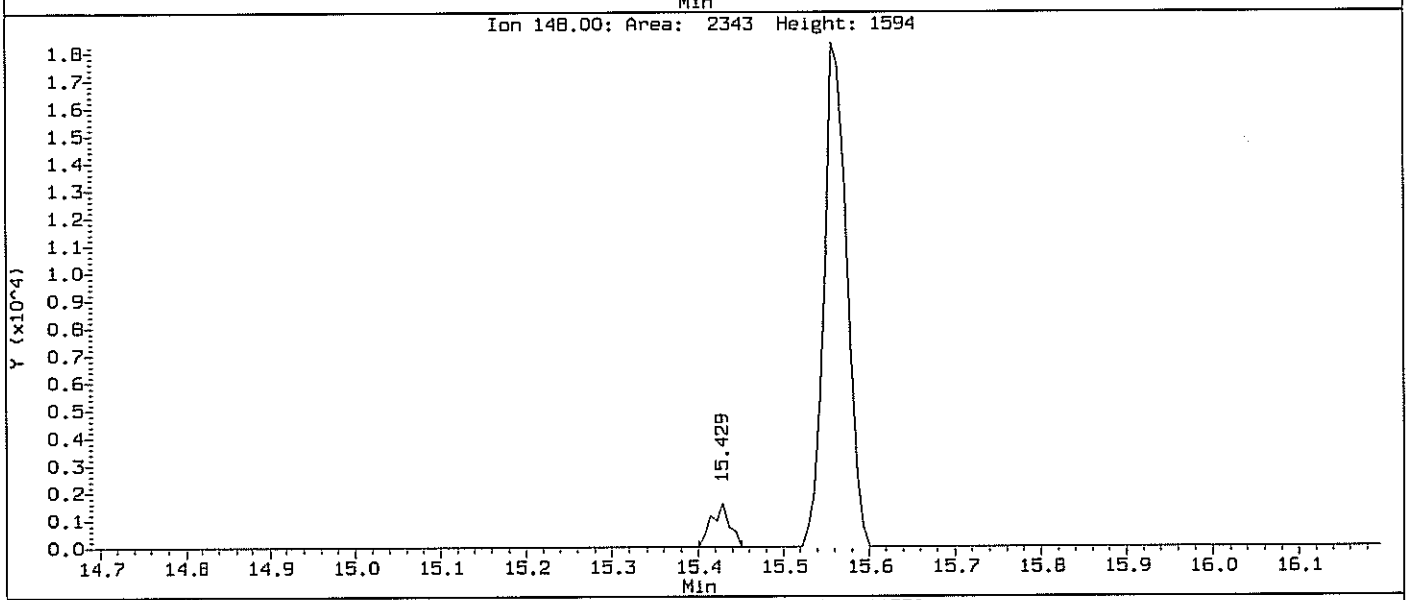


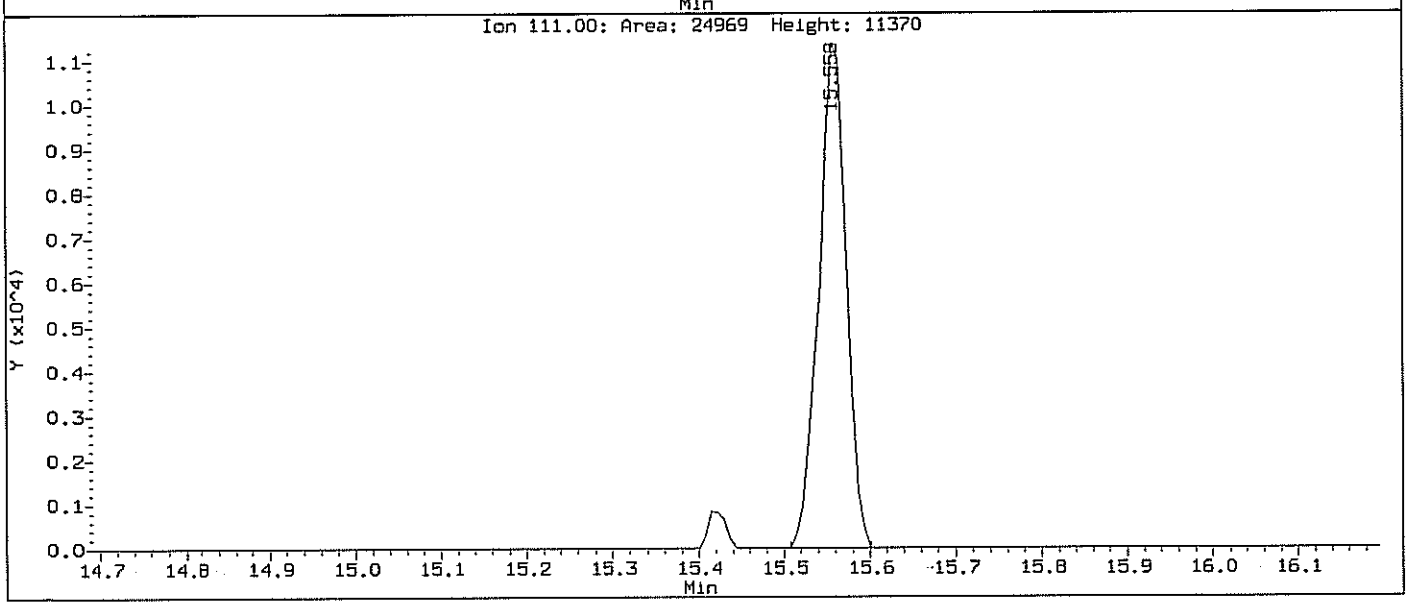
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Injection Date: 04-OCT-2012 17:31
Instrument: gcms-d.i
Client Sample ID: AOC9-MW15PM092612

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1

before



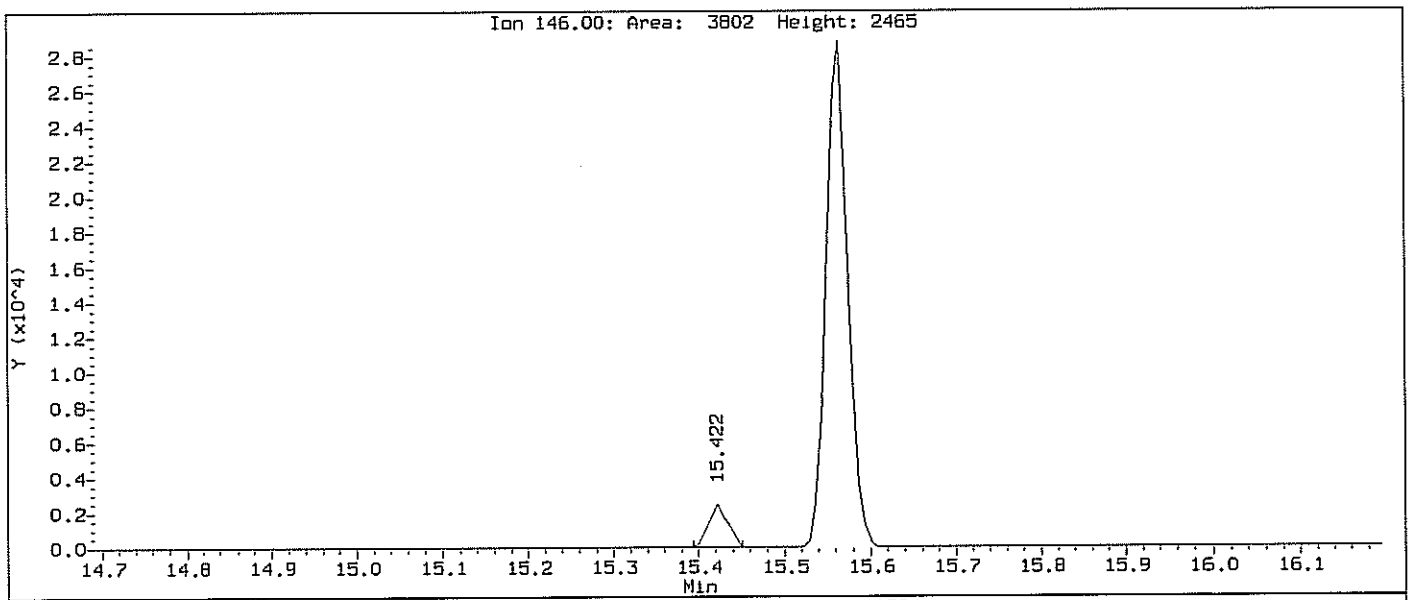


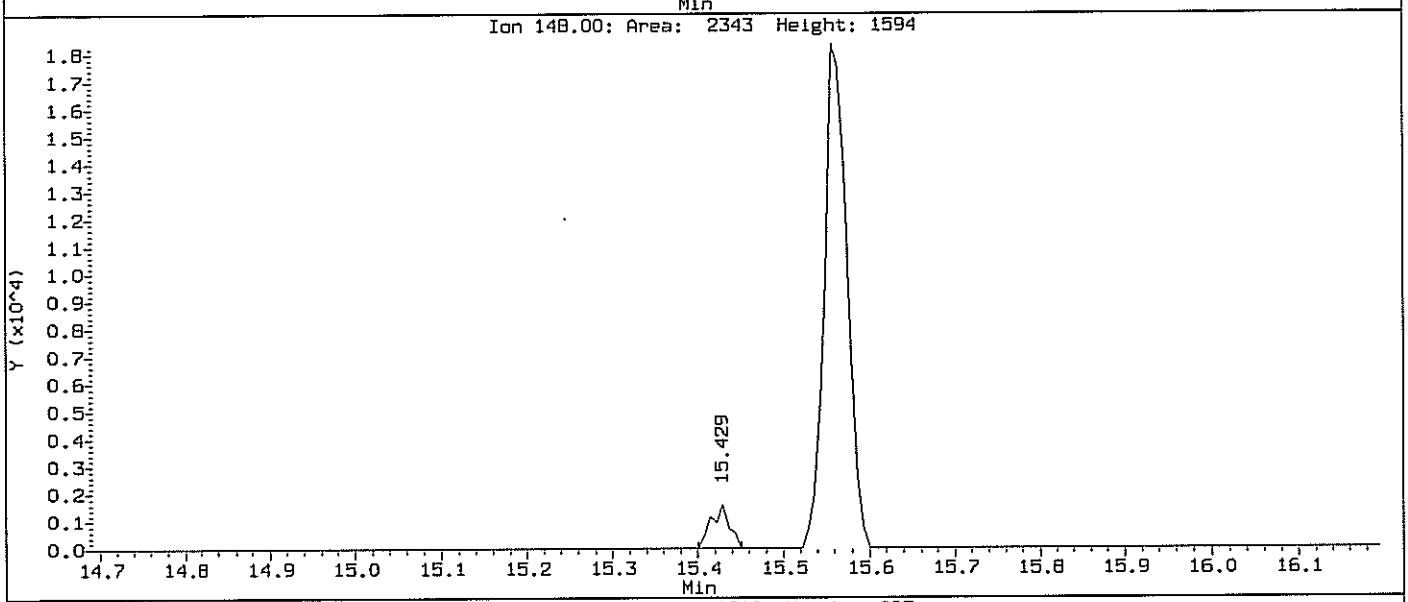


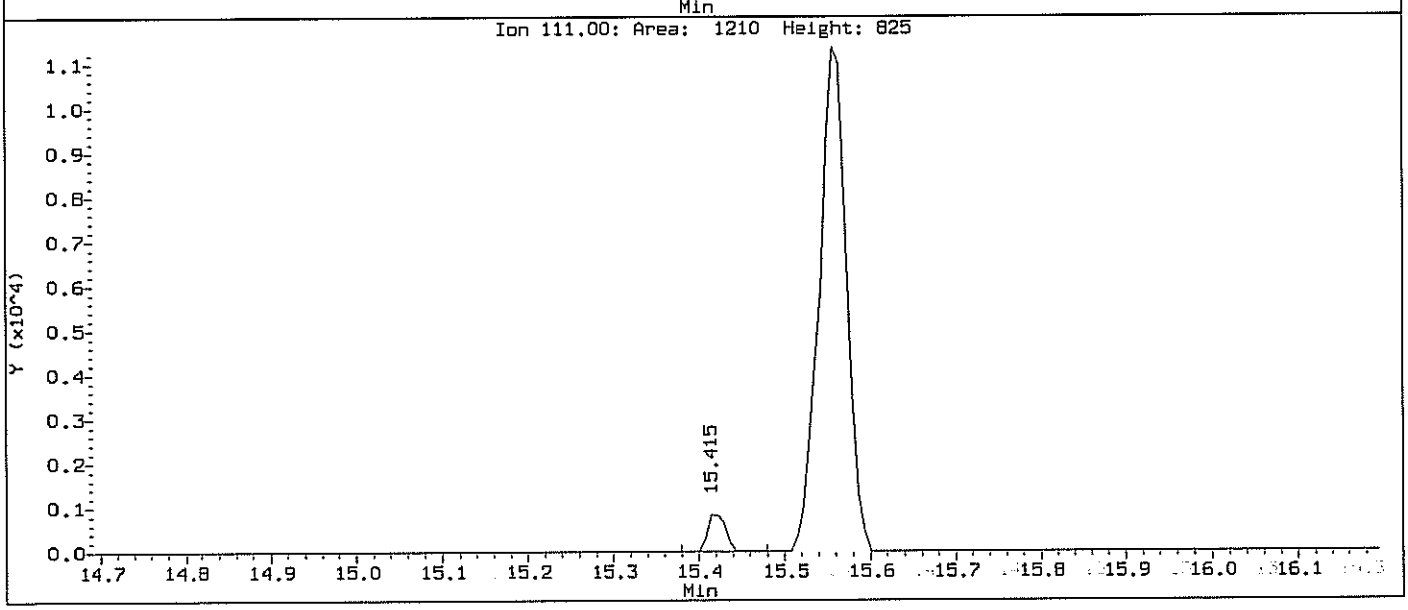
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Instrument: gcms-d.i
Client Sample ID: AOC9-MW15PM092612

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1

After







Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-8
Client ID: AOC9-MW14PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2112.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	J	0.83	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		2.4	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	J	0.55	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.94	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		1.2	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane		1.3	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

600 Technology Way
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Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-8
Client ID: AOC9-MW14PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2112.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene		190	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	JL	0.37	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	JL	0.93	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.3	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		21.	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		24.	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	UC	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	J	0.46	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene		1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene		1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	J	0.32	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		101.	%					
Toluene-d8		101.	%					
P-Bromofluorobenzene		96.3	%					
Dibromofluoromethane		98.3	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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Report Date: 15-Oct-2012 15:19

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D100312.b\D2112.D
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Inj Date : 03-OCT-2012 16:22 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : SF6628-8
Misc Info : WG114326,WG114145-4
Comment : SW846 5030
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Meth Date : 15-Oct-2012 11:10 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 14
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
	3 Vinyl chloride	62	2.429	2.444	(0.300)	5277	0.82873	0.83(a)	
	29 cis-1,2-Dichloroethene	96	6.805	6.827	(0.842)	12499	2.38832	2.4	
M	30 1,2-Dichloroethylene (total)	96				12499	2.38832	2.4	
$	37 Dibromofluoromethane	113	7.434	7.463	(0.920)	228864	49.1681	49.2	
	41 Benzene	78	7.956	7.978	(0.911)	20409	0.93929	0.94(aM)	M10
*	42 Pentafluorobenzene	168	8.085	8.100	(1.000)	470055	50.0000		
	43 Cyclohexane	56	7.098	7.120	(0.878)	5149	0.54902	0.55(a)	
$	45 1,2-Dichloroethane-D4	65	8.120	8.143	(1.004)	318917	50.7494	50.7	
	48 Trichloroethene	95	8.692	8.715	(0.995)	6966	1.16779	1.2(H)	
*	49 1,4-Difluorobenzene	114	8.735	8.757	(1.000)	800662	50.0000		
$	55 Toluene-D8	98	10.351	10.373	(1.185)	974487	50.5858	50.6	
*	66 Chlorobenzene-D5	117	12.217	12.240	(1.000)	776288	50.0000		
	67 Chlorobenzene	112	12.239	12.261	(1.002)	2833815	185.597	186	
	68 Ethylbenzene	106	12.282	12.304	(1.005)	3289	0.37471	0.37(a)	
	75 Isopropylbenzene	105	13.469	13.491	(0.867)	22683	0.92733	0.93(a)	
$	76 P-Bromofluorobenzene	95	13.855	13.877	(1.586)	383424	48.1639	48.2	
	80 N-Propylbenzene	91	14.062	14.077	(0.905)	30756	1.02368	1.0	
	86 tert-Butylbenzene	119	14.820	14.842	(0.954)	6541	0.32440	0.32(a)	
	90 1,3-Dichlorobenzene	146	15.421	15.443	(0.993)	15242	1.28231	1.3	
*	91 1,4-Dichlorobenzene-D4	152	15.535	15.557	(1.000)	436799	50.0000		
	92 1,4-Dichlorobenzene	146	15.556	15.579	(1.001)	278811	21.1790	21.2	
	93 N-Butylbenzene	91	15.993	16.015	(1.029)	9508	0.45984	0.46(a)	
	94 sec-Butylbenzene	105	15.099	15.114	(0.972)	27417	1.03998	1.0	
	95 1,2-Dichlorobenzene	146	16.229	16.251	(1.045)	266703	23.7606	23.8	

WG5
10-15-12

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Report Date: 15-Oct-2012 15:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
104 Methylcyclohexane	83	8.685	8.707	(1.074)	10083	1.29067	1.3	
M 153 Total Alkylbenzenes	100				74222	2.84789	2.8(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

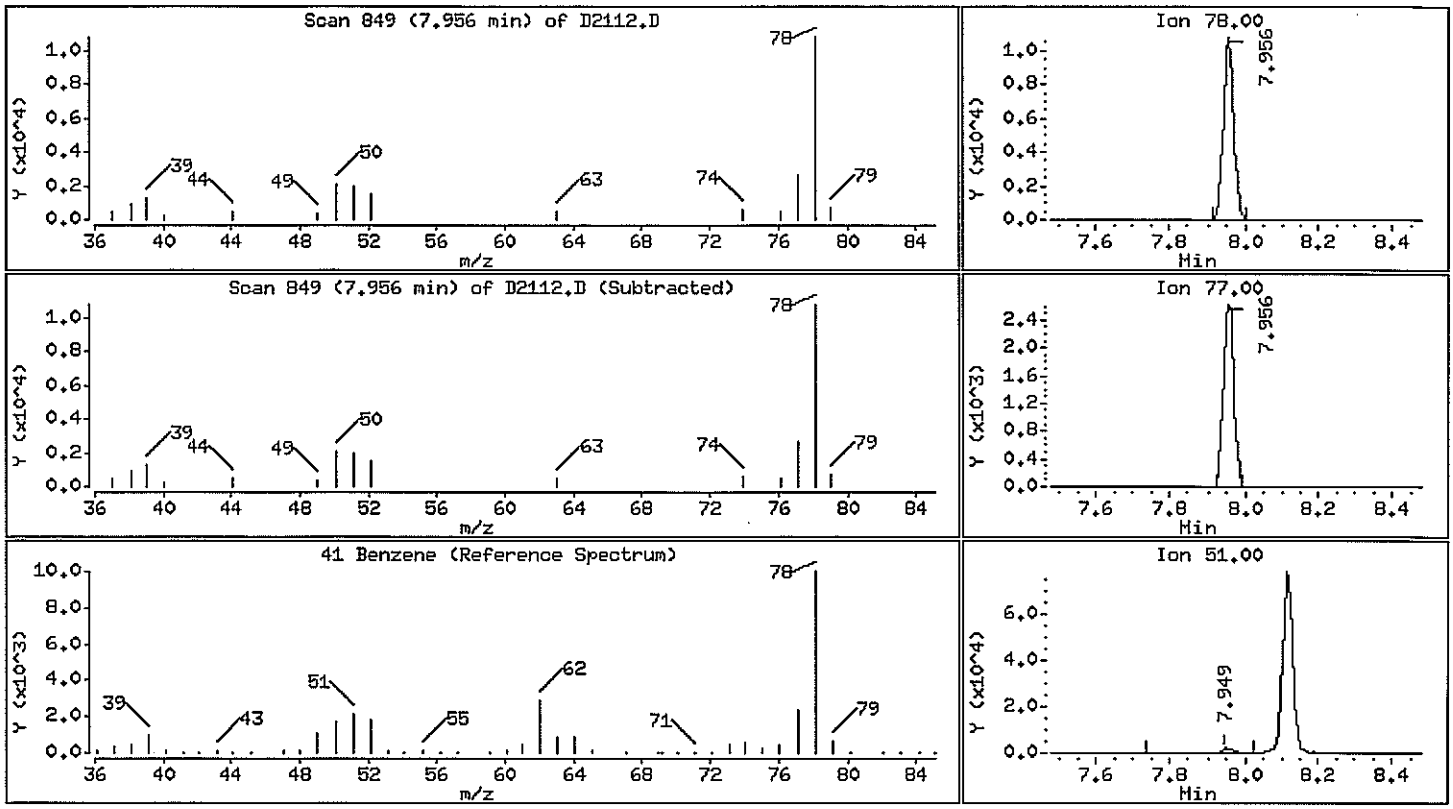
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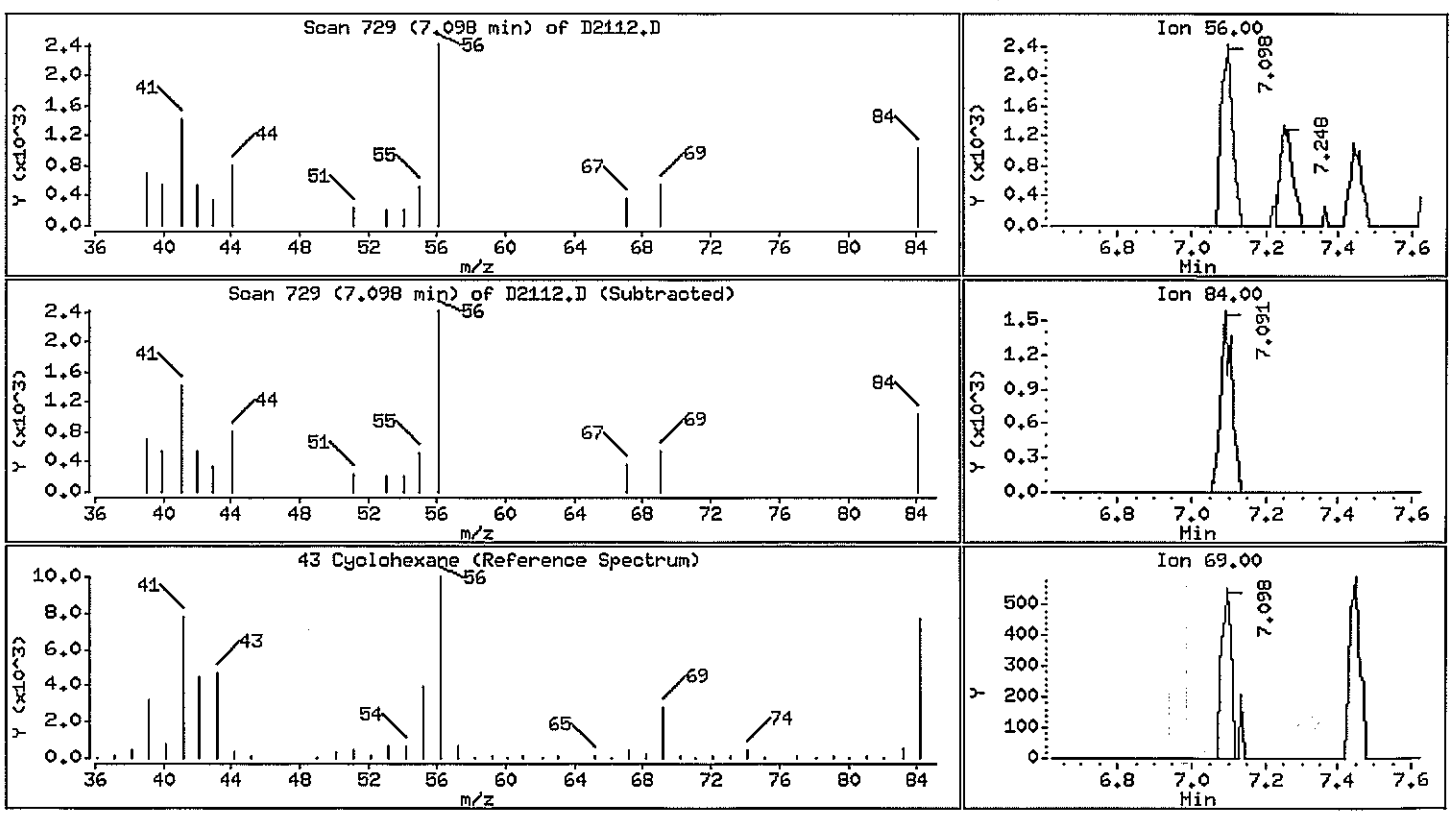
Client ID: AOC9-MW14PM092612 Instrument: gcms-d.i

Sample Info: SF6628-8

41 Benzene Concentration: 0.94 ug/l



43 Cyclohexane Concentration: 0.55 ug/l



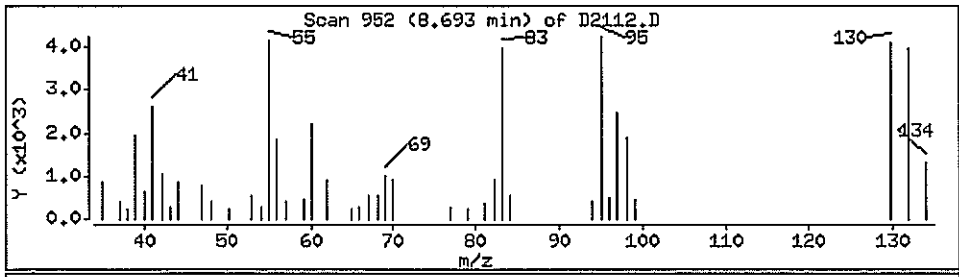
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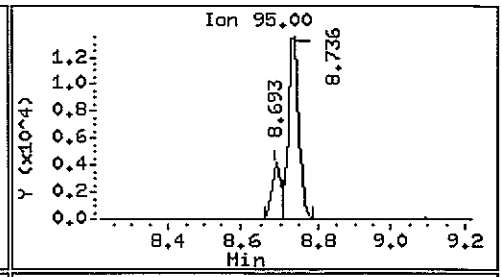
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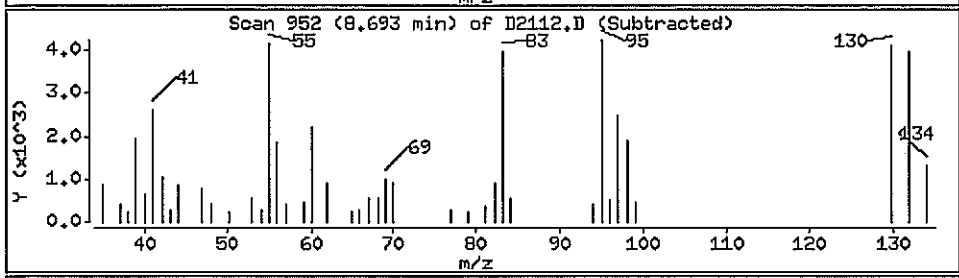
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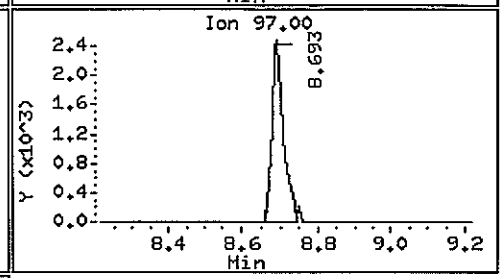
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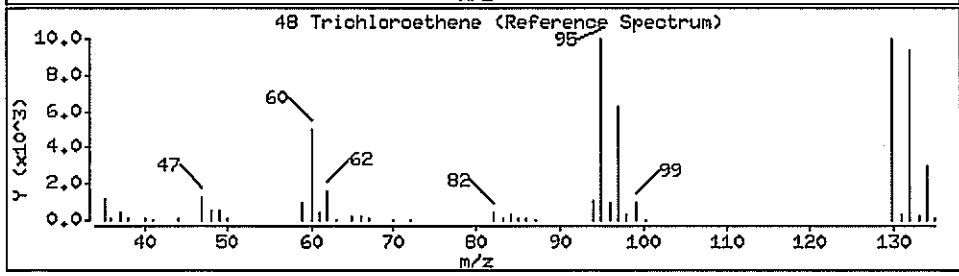
48 Trichloroethene Concentration: 1.2 ug/l



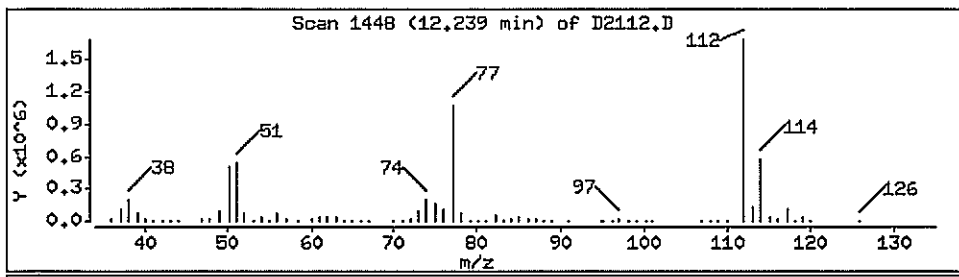


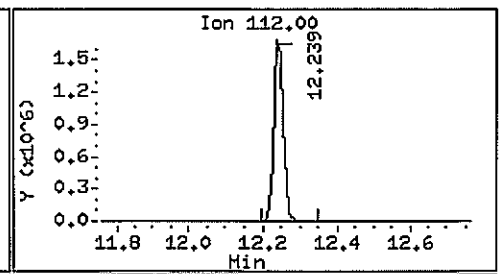


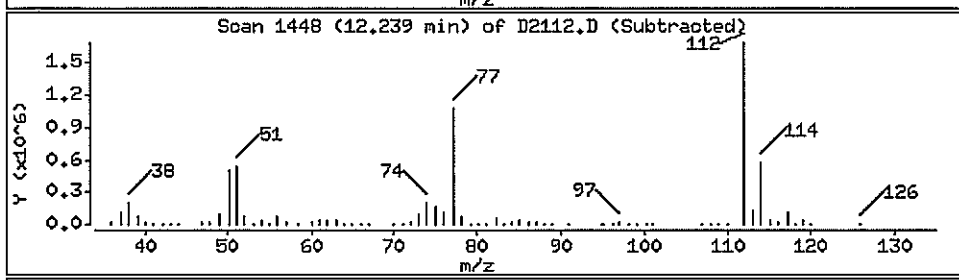


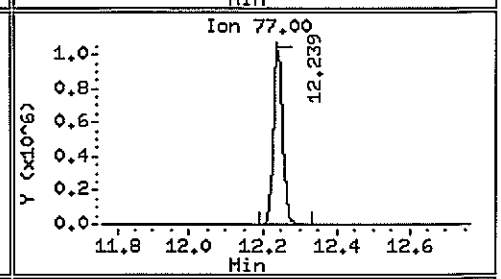


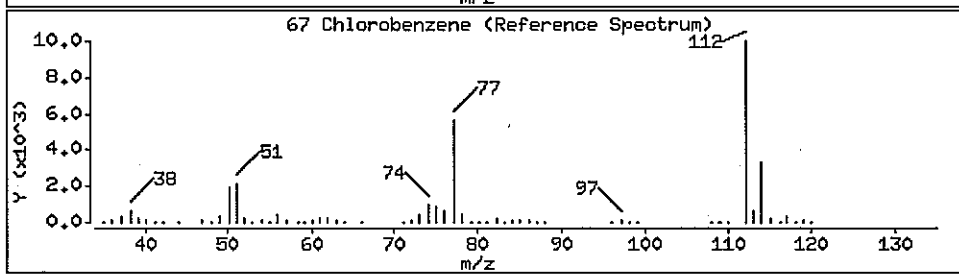
67 Chlorobenzene Concentration: 186 ug/l

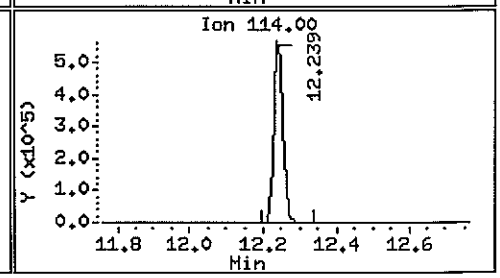












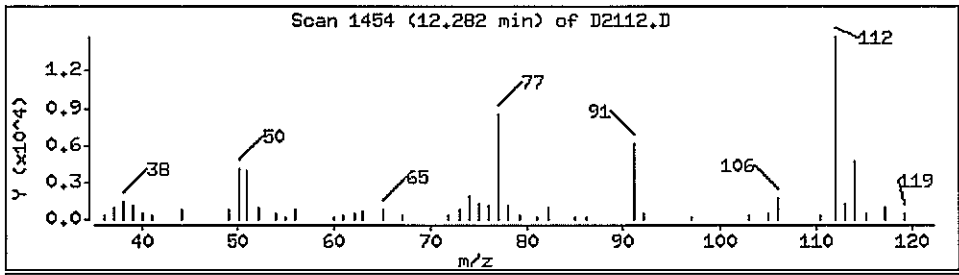
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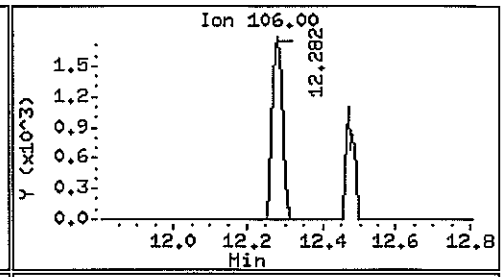
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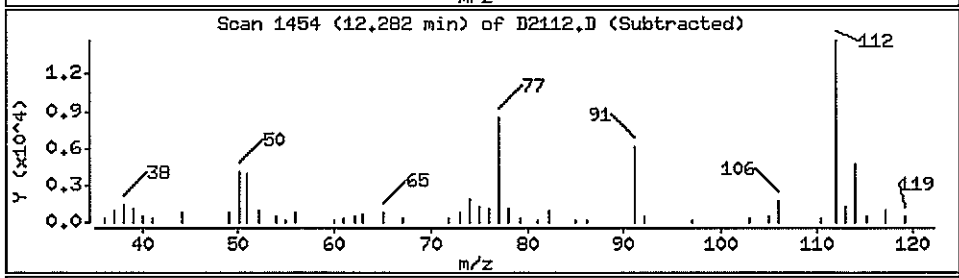
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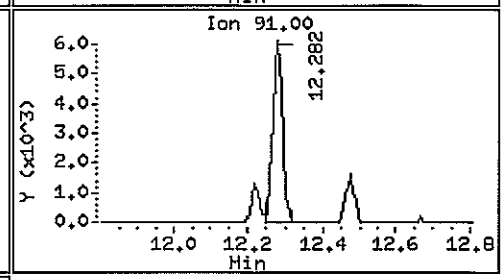
Sample Info: SF6628-8

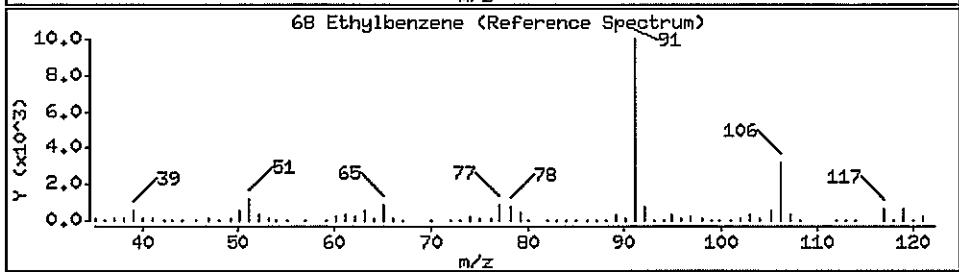
68 Ethylbenzene Concentration: 0.37 ug/l



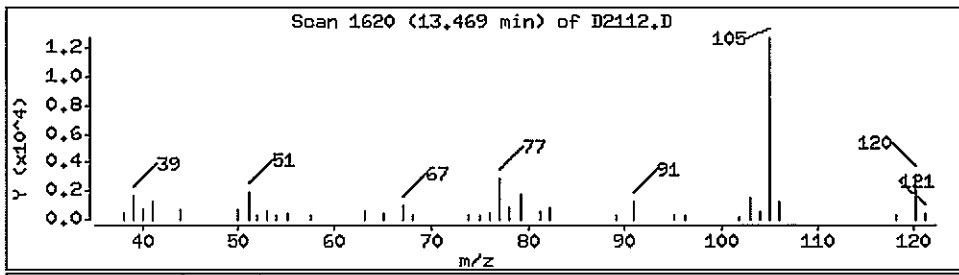


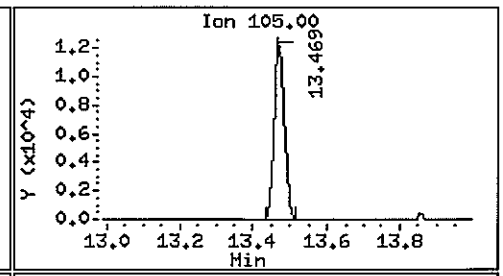


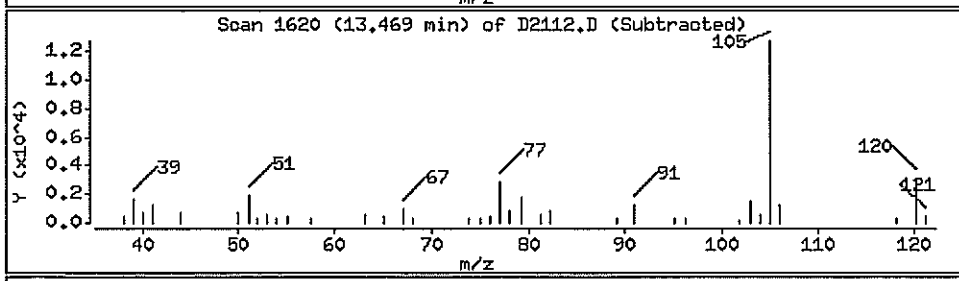


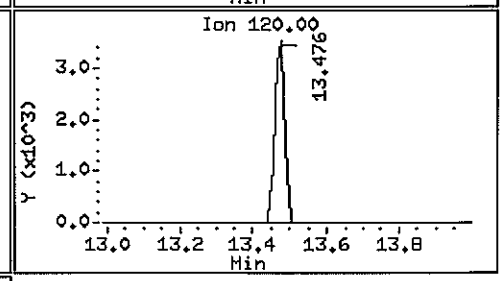


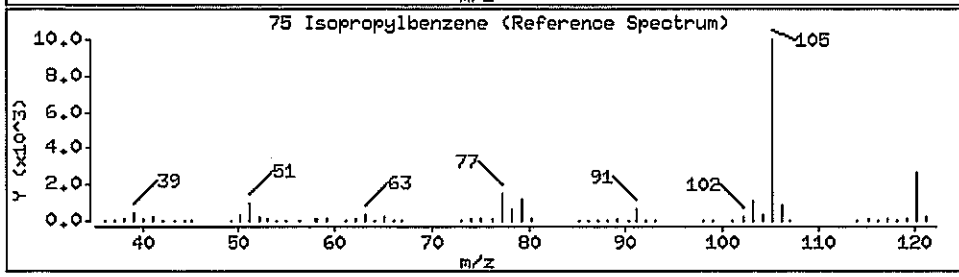
75 Isopropylbenzene Concentration: 0.93 ug/l











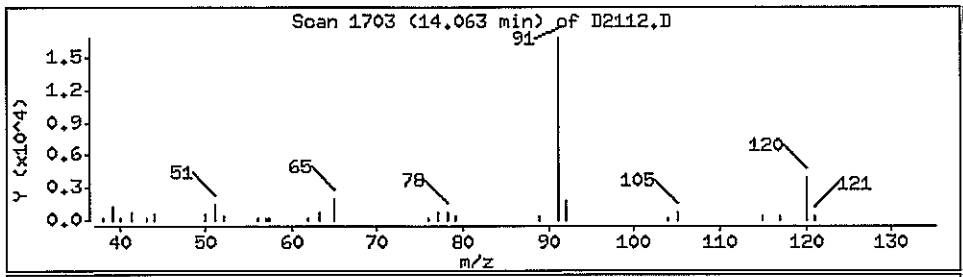
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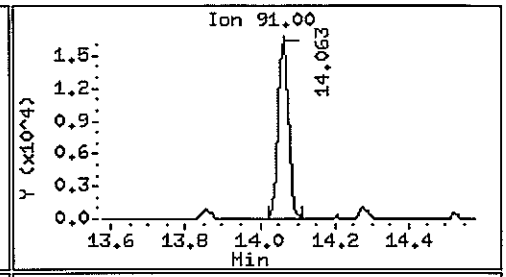
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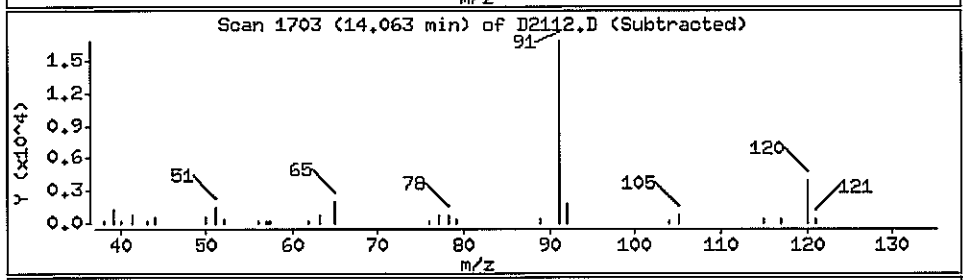
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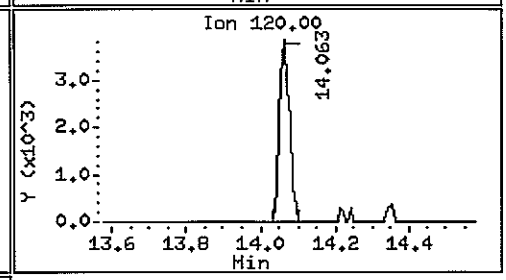
Sample Info: SF6628-8

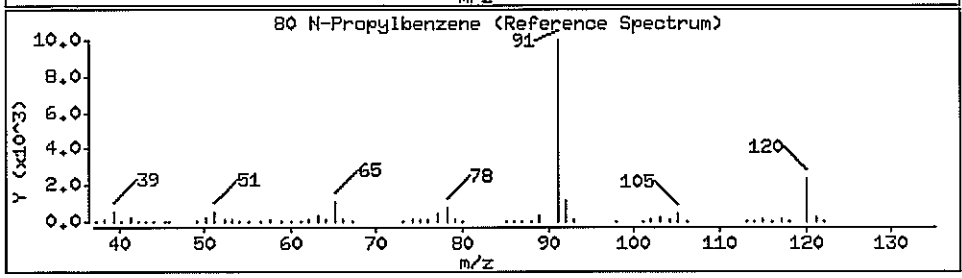
80 N-Propylbenzene Concentration: 1.0 ug/l



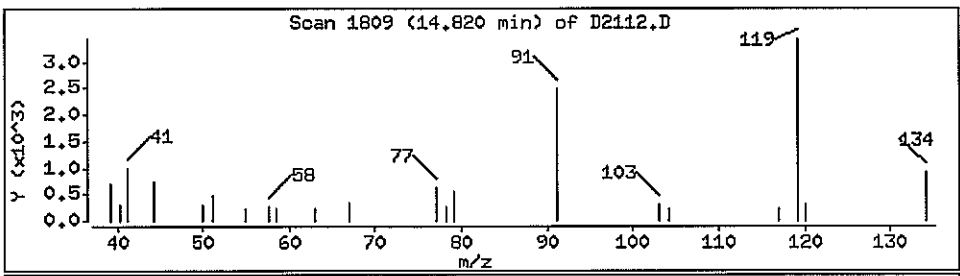


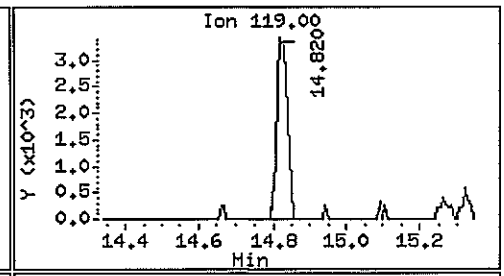


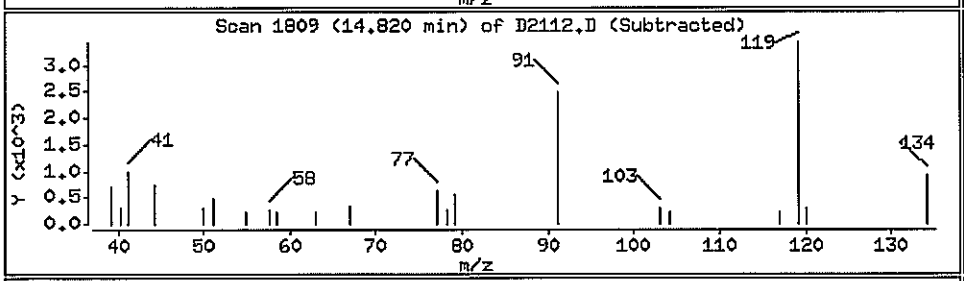


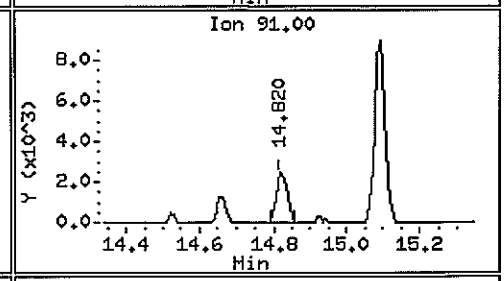


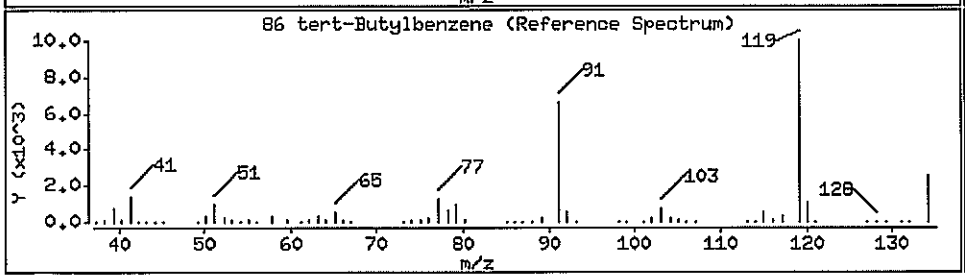
86 tert-Butylbenzene Concentration: 0.32 ug/l

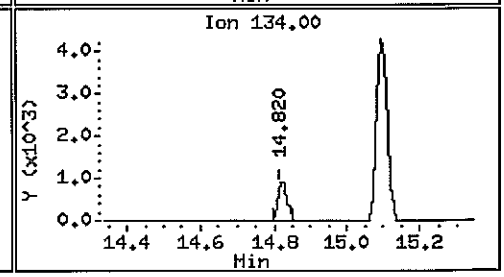












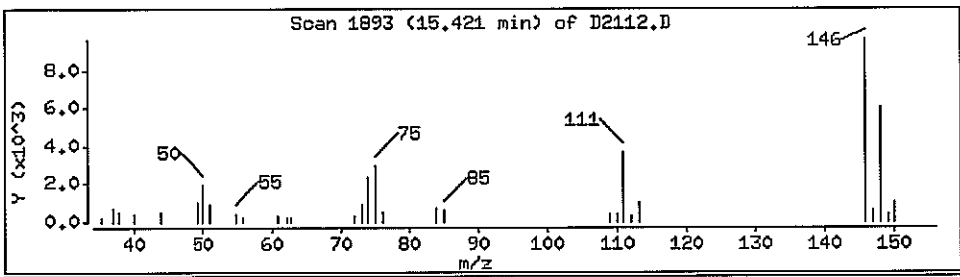
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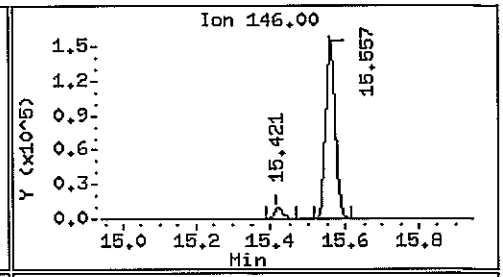
Date : 03-OCT-2012 16:22

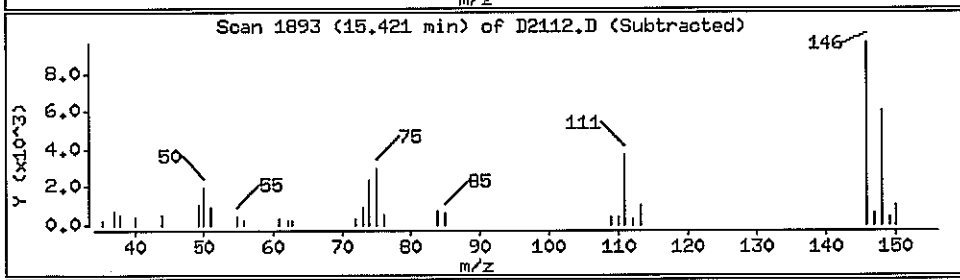
Client ID: A0C9-MW14PM092612 Instrument: gcms-d.i

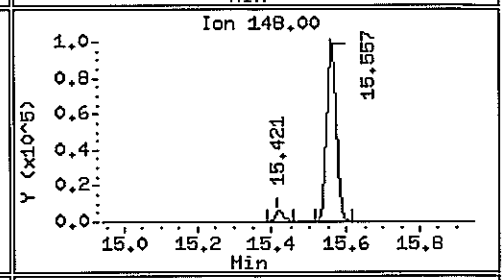
Sample Info: SF6628-8

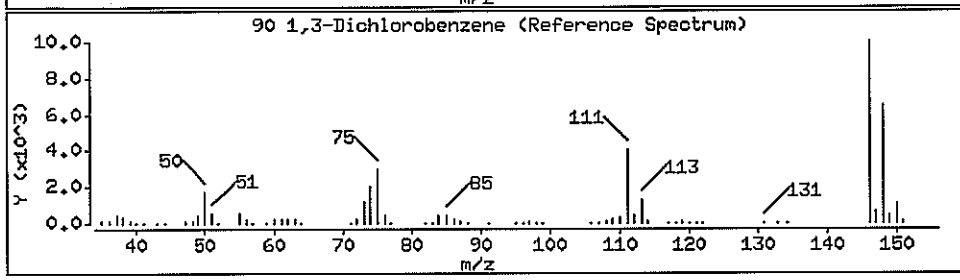
90 1,3-Dichlorobenzene Concentration: 1.3 ug/l

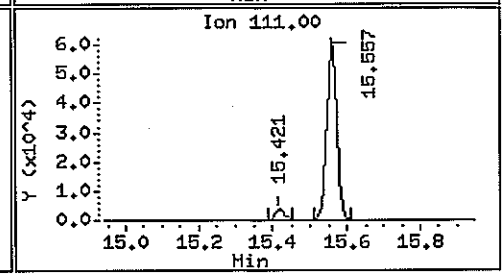




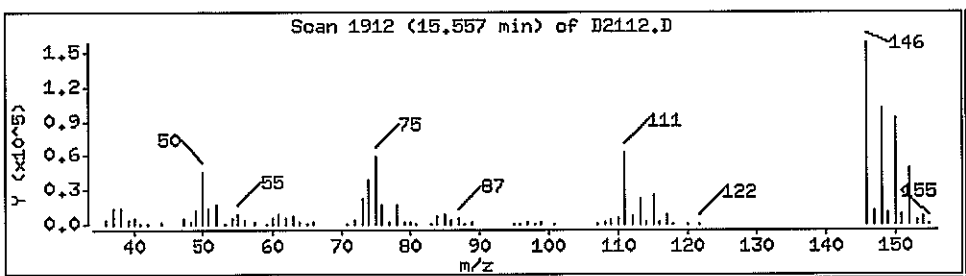


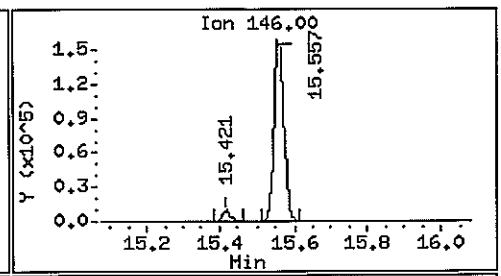


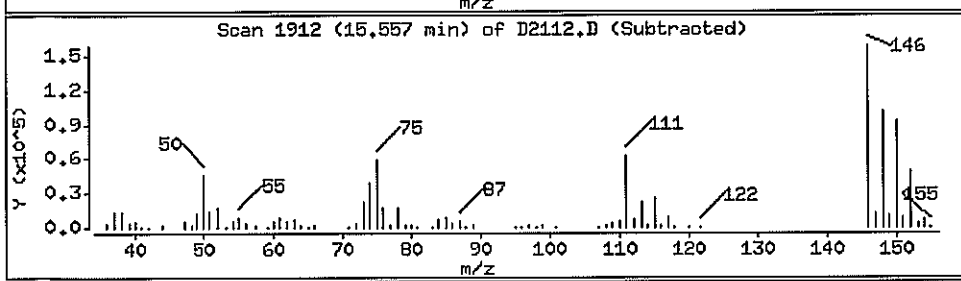


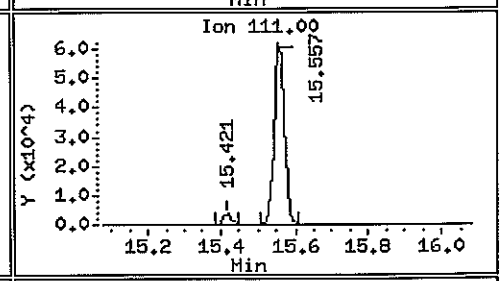


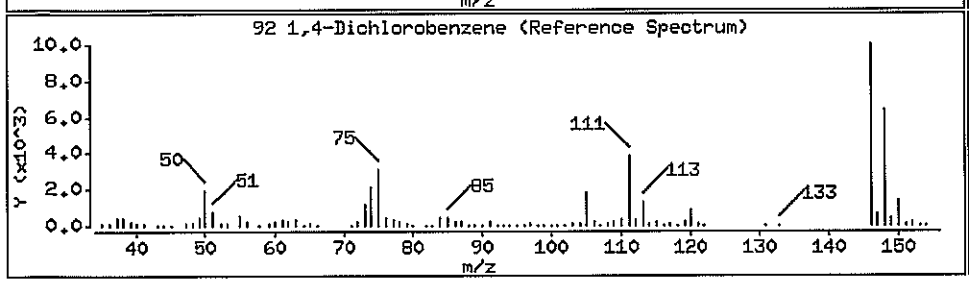
92 1,4-Dichlorobenzene Concentration: 21.2 ug/l

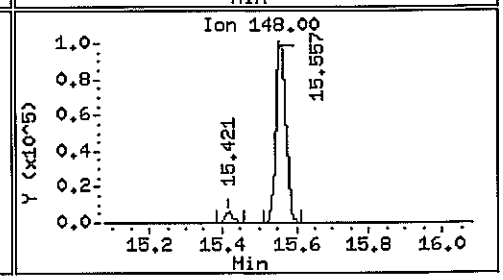












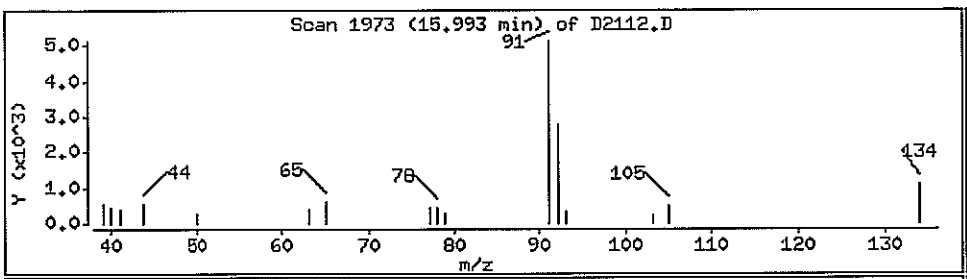
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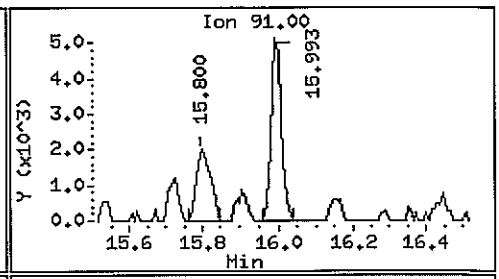
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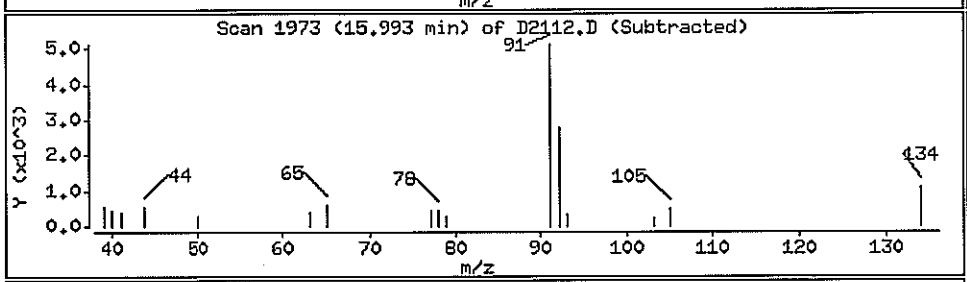
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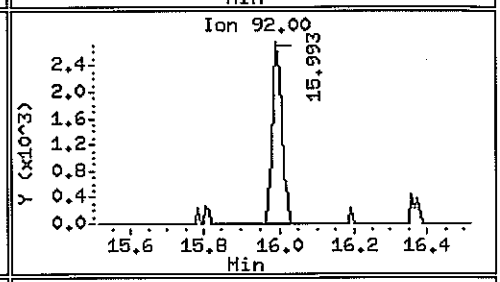
Sample Info: SF6628-8

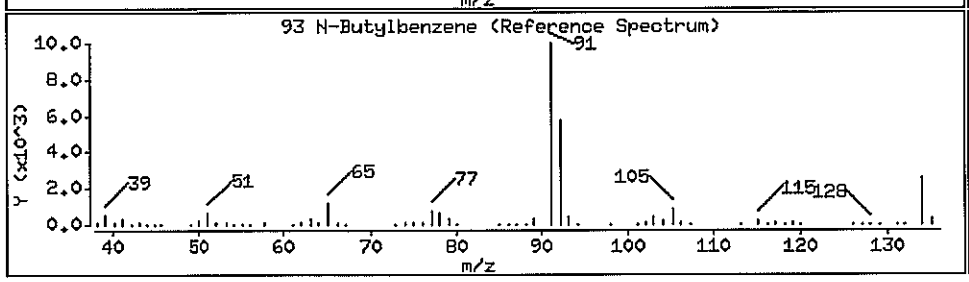
93 N-Butylbenzene Concentration: 0.46 ug/l

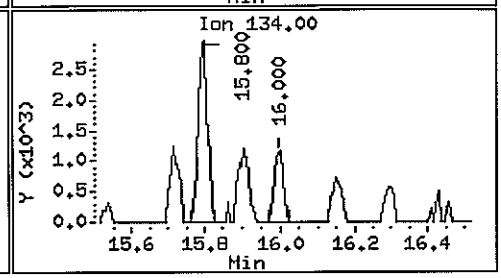




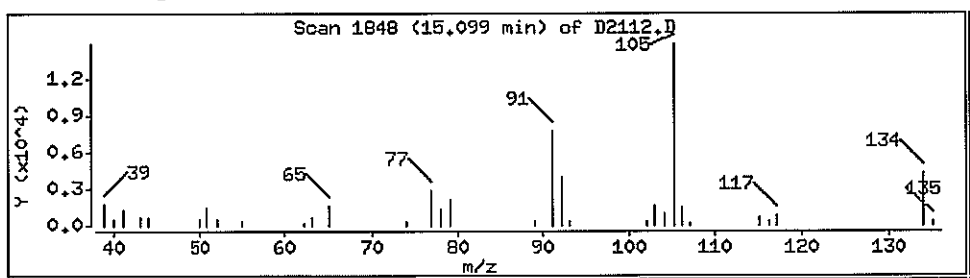


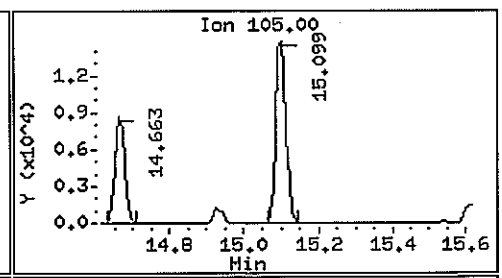


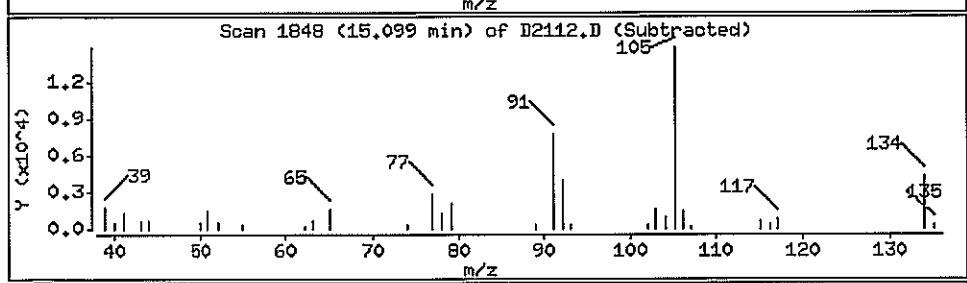


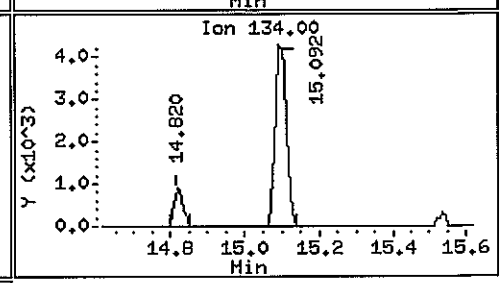


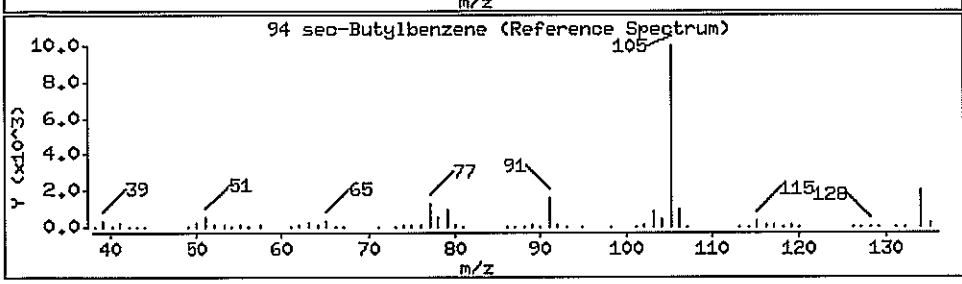
94 sec-Butylbenzene Concentration: 1.0 ug/l











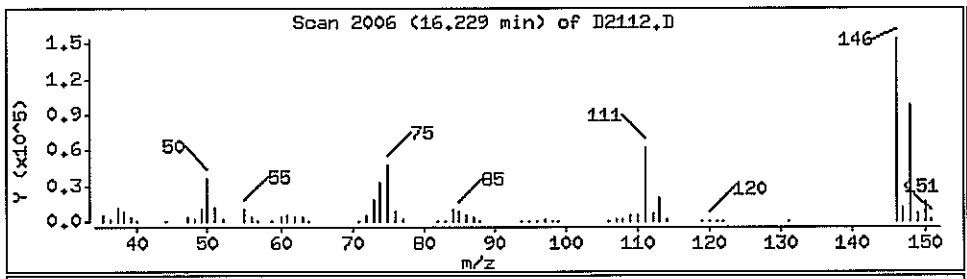
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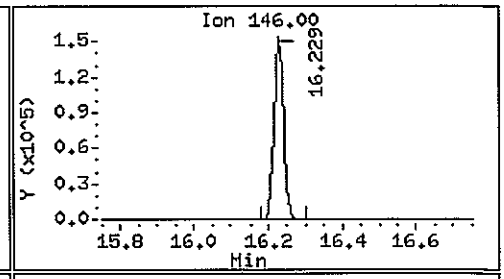
Date : 03-OCT-2012 16:22

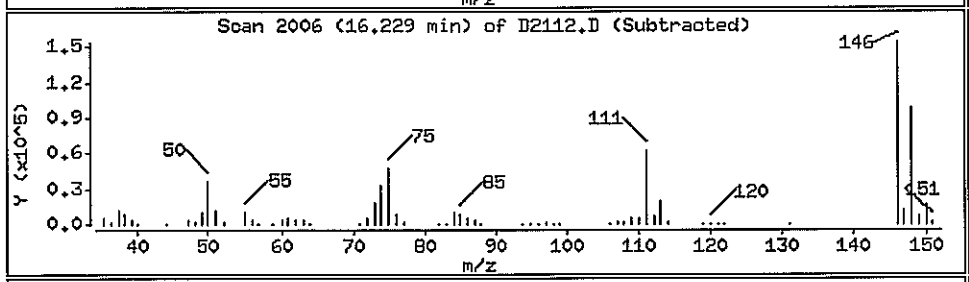
Client ID: AOC9-MW14PM092612 Instrument: gcms-d.i

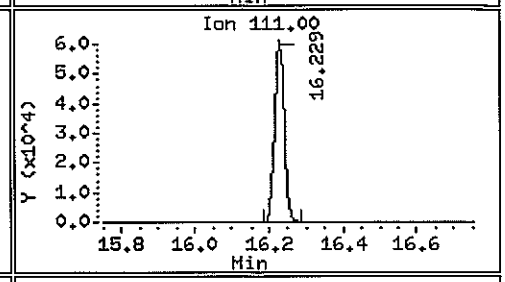
Sample Info: SF6628-8

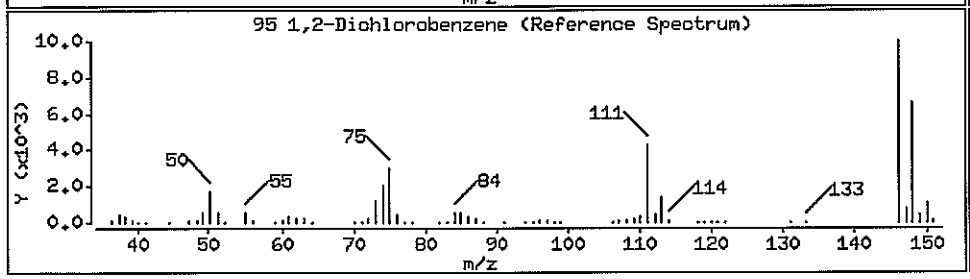
95 1,2-Dichlorobenzene Concentration: 23.8 ug/l

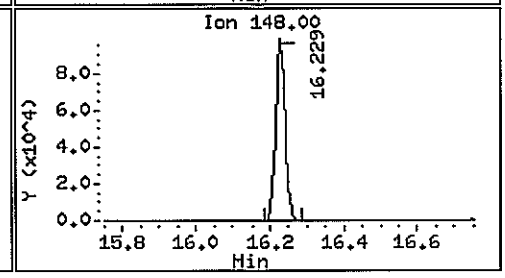




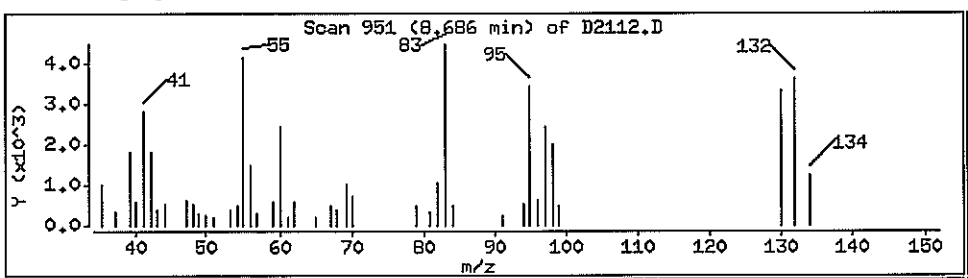


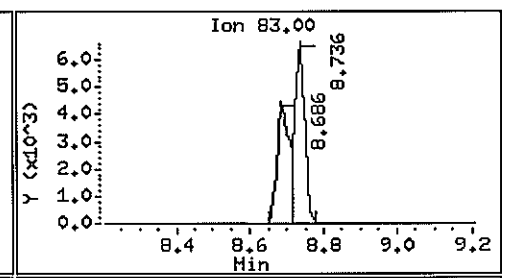


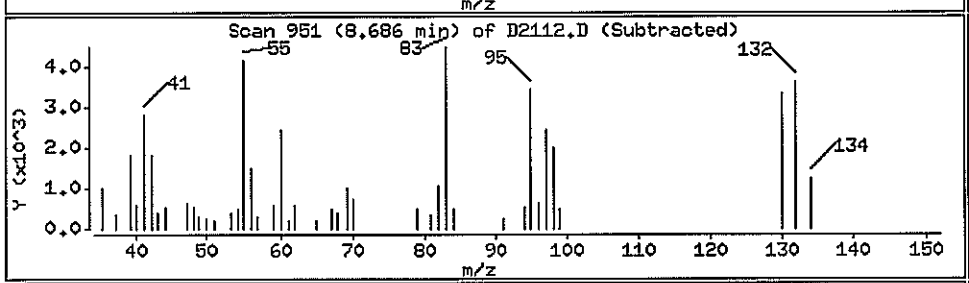


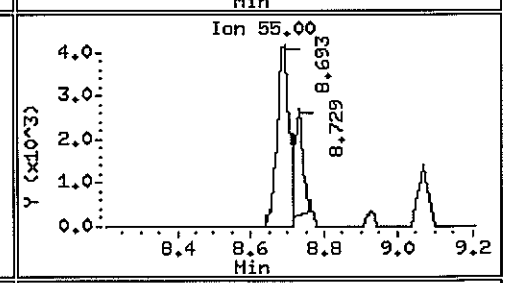


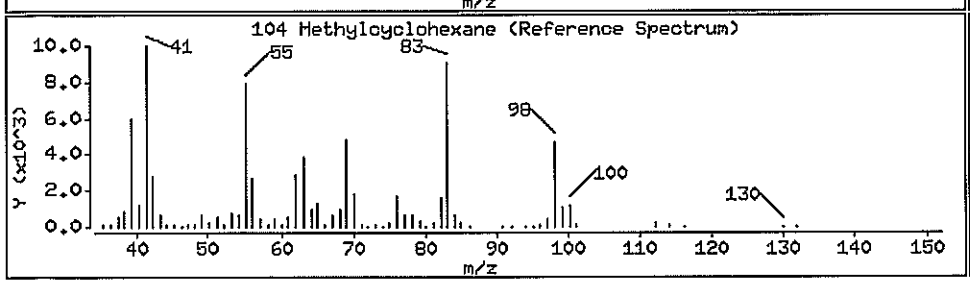
104 Methylcyclohexane Concentration: 1.3 ug/l

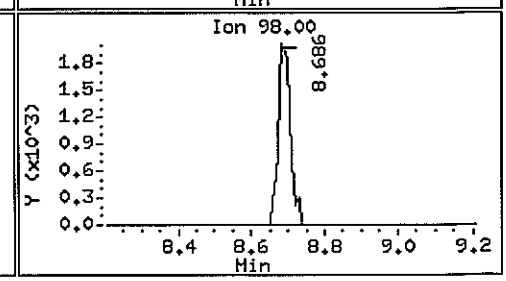








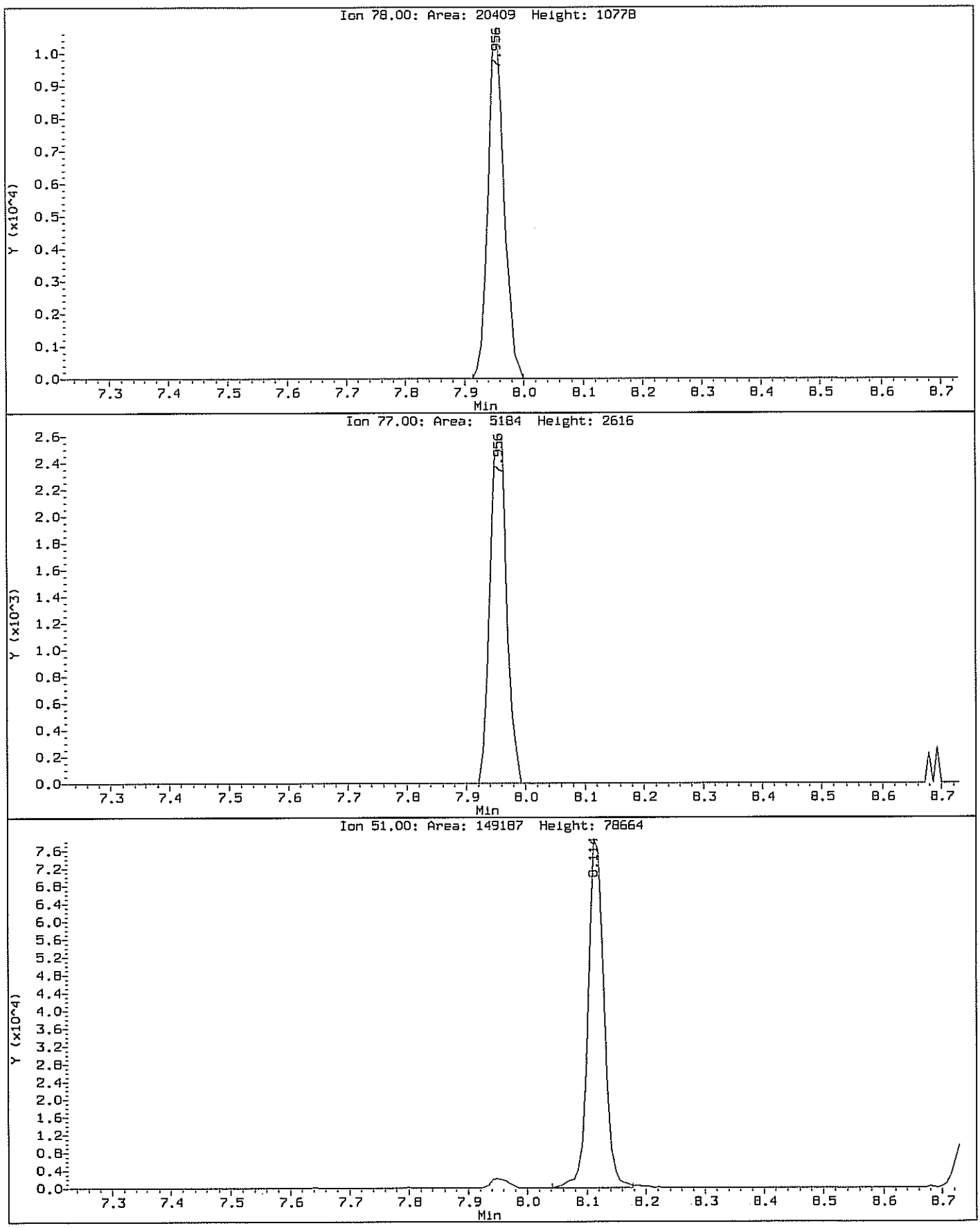




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Injection Date: 03-OCT-2012 16:22
Instrument: gcms-d.i
Client Sample ID: AOC9-MW14PM092612

Compound: Benzene
CAS Number: 71-43-2

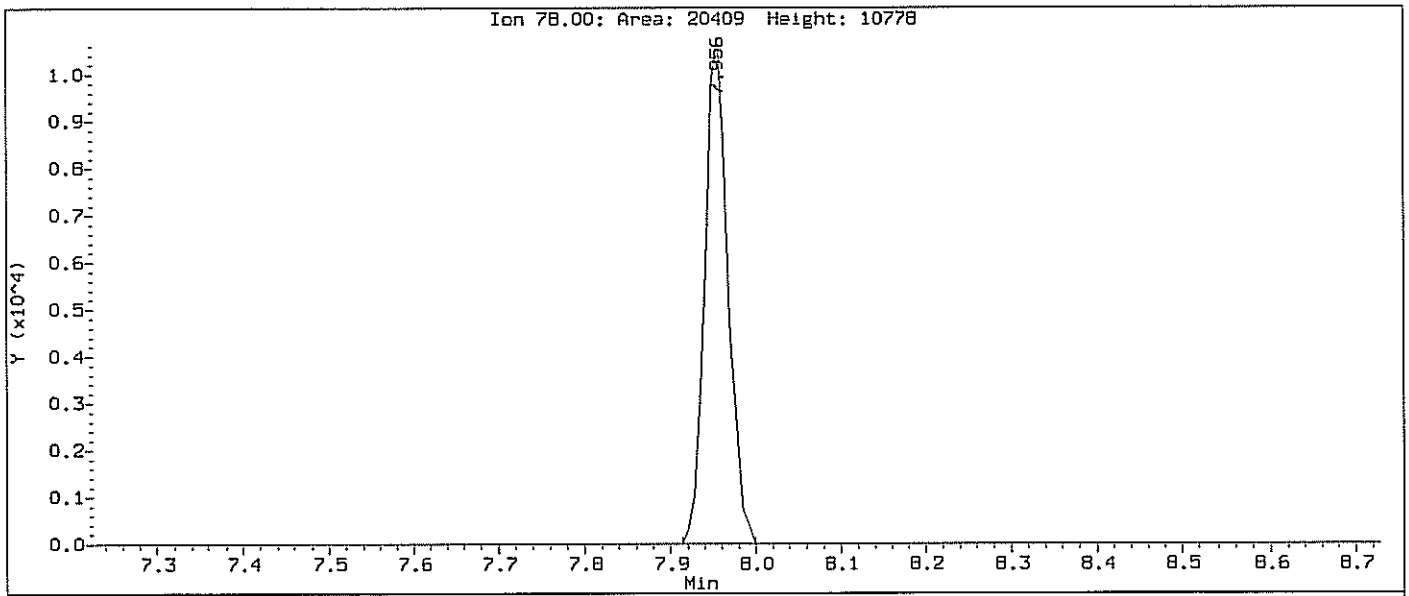
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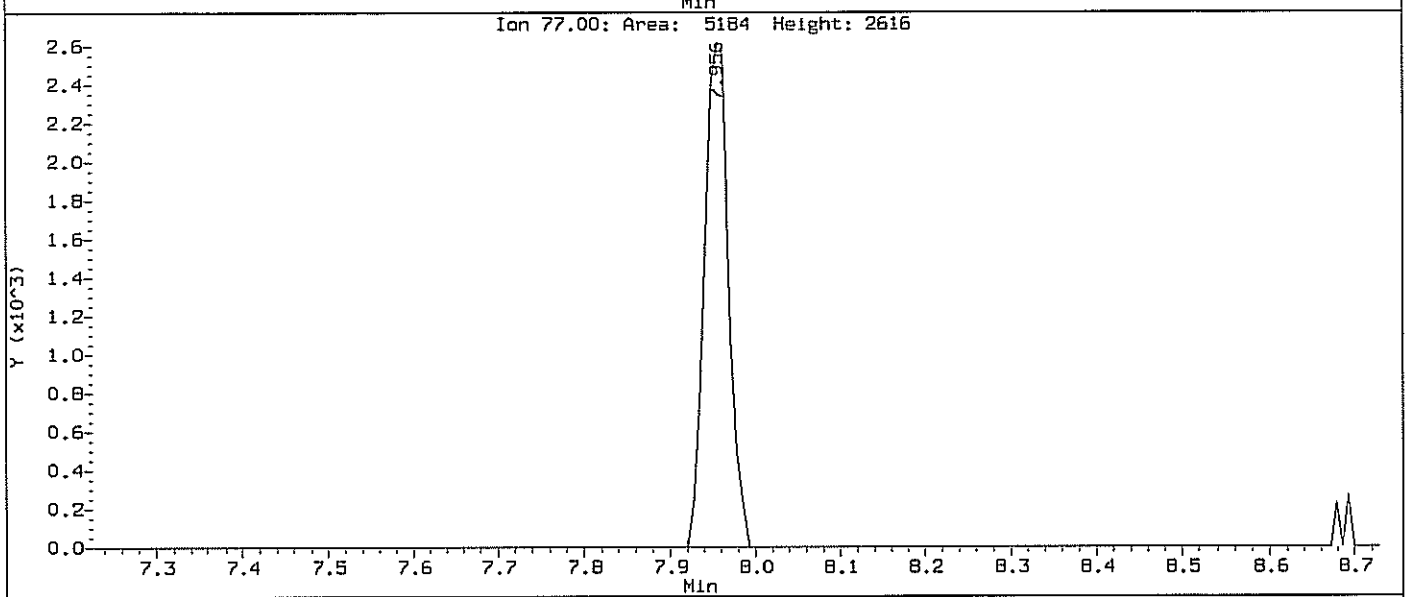


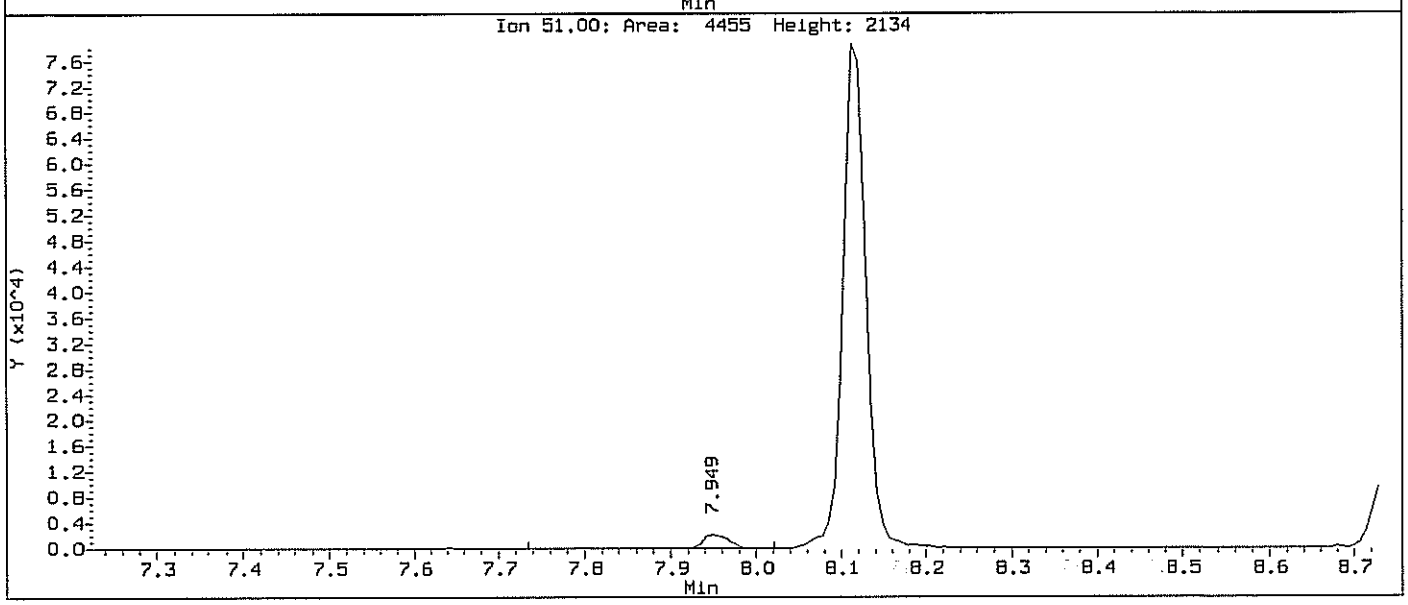
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Injection Date: 03-OCT-2012 16:22
Instrument: gcms-d.i
Client Sample ID: AOC9-MW14PM092612

Compound: Benzene
CAS Number: 71-43-2

After







Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-9
Client ID: AOC9-MW19PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2113.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		1.4	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	J	0.30	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-9
Client ID: AOC9-MW19PM092612
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2113.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene		31.	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	UL	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		4.4	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		5.4	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	UC	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		103.	%					
Toluene-d8		101.	%					
P-Bromofluorobenzene		94.2	%					
Dibromofluoromethane		101.	%					

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\gcms-d.i\D100312.b\D2113.D
Report Date: 15-Oct-2012 11:21

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D100312.b\D2113.D
Lab Smp Id: SF6628-9 Client Smp ID: AOC9-MW19PM092612
Inj Date : 03-OCT-2012 16:51 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : SF6628-9
Misc Info : WG114326,WG114145-4
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-d.i\D100312.b\D826A10.m
Meth Date : 15-Oct-2012 11:10 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

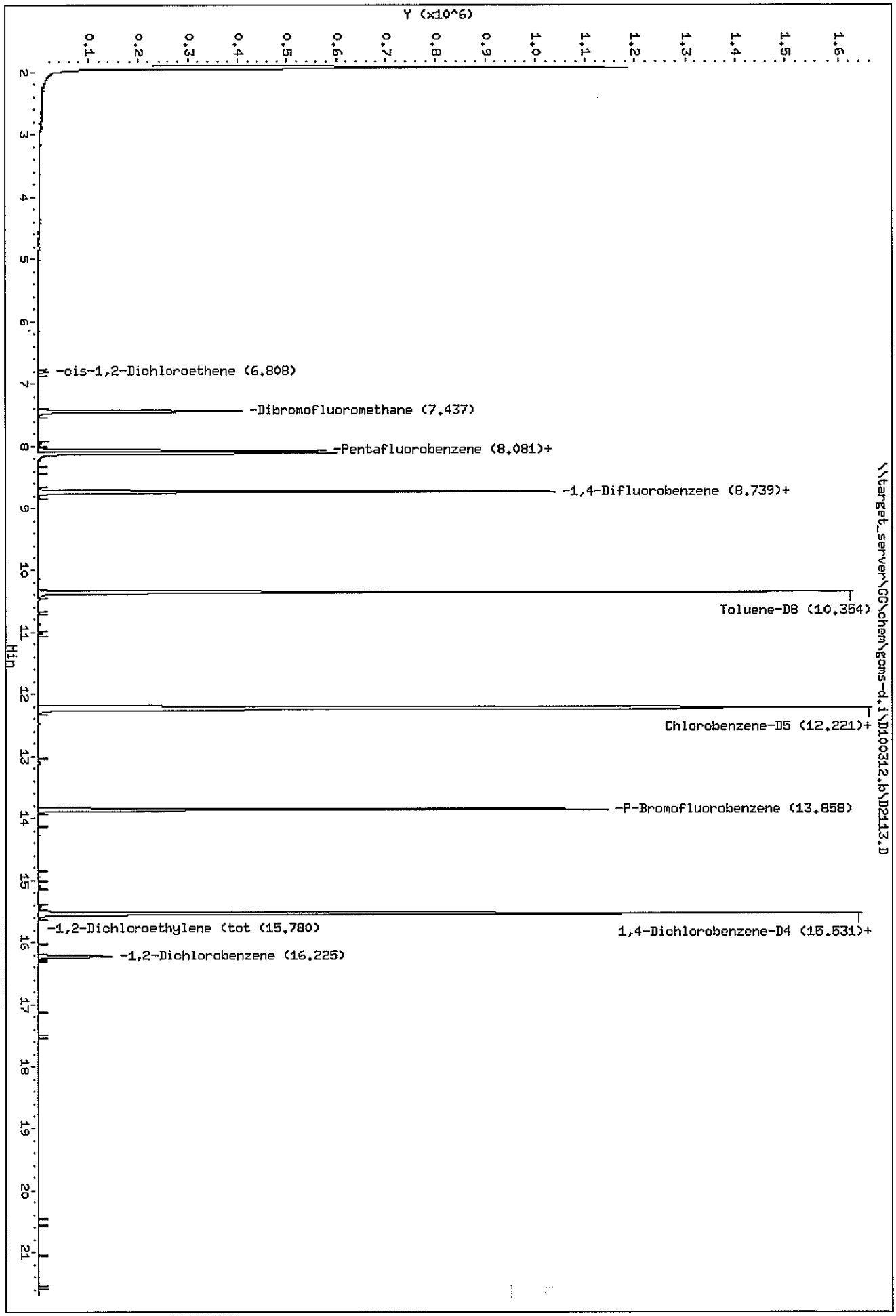
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

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
	29 cis-1,2-Dichloroethene	96	6.808	6.827	(0.842)	7239	1.42466	1.4	
M	30 1,2-Dichloroethylene (total)	96				7239	1.42466	1.4(a)	
$	37 Dibromofluoromethane	113	7.437	7.463	(0.920)	229309	50.7390	50.7	
*	42 Pentafluorobenzene	168	8.080	8.100	(1.000)	456387	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.116	8.143	(1.004)	314482	51.5424	51.5	
	48 Trichloroethene	95	8.688	8.715	(0.994)	1784	0.30283	0.30(aH)	
*	49 1,4-Difluorobenzene	114	8.738	8.757	(1.000)	790714	50.0000		
$	55 Toluene-D8	98	10.354	10.373	(1.185)	956959	50.3009	50.3	
*	66 Chlorobenzene-D5	117	12.213	12.240	(1.000)	745656	50.0000		
	67 Chlorobenzene	112	12.242	12.261	(1.002)	448973	30.6129	30.6	
$	76 P-Bromofluorobenzene	95	13.858	13.877	(1.586)	370182	47.0855	47.1	
*	91 1,4-Dichlorobenzene-D4	152	15.531	15.557	(1.000)	420331	50.0000		
	92 1,4-Dichlorobenzene	146	15.559	15.579	(1.002)	55469	4.37862	4.4	
	95 1,2-Dichlorobenzene	146	16.224	16.251	(1.045)	58284	5.39596	5.4	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.


Y (x10^6)
Min
-cis-1,2-Dichloroethene (6.808)
-Dibromofluoromethane (7.437)
-Pentafluorobenzene (8.081)+
-1,4-Difluorobenzene (8.739)+
Toluene-D8 (10.354)
Chlorobenzene-D5 (12.221)+
-P-Bromofluorobenzene (13.858)
-1,2-Dichloroethylene (tot (15.780)
1,4-Dichlorobenzene-D4 (15.531)+
-1,2-Dichlorobenzene (16.225)
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Date : 03-OCT-2012 16:51
Client ID: ADC9-MW19PH092612
Sample Info: SF6628-9
Instrument: gcms-d.i

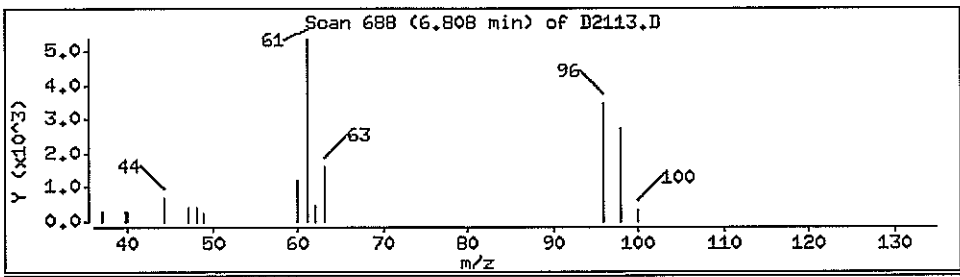
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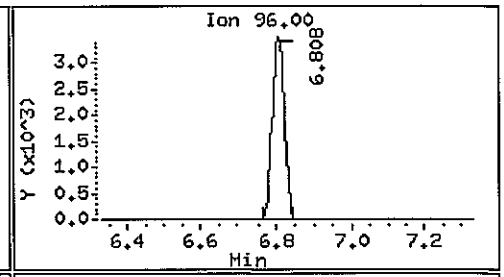
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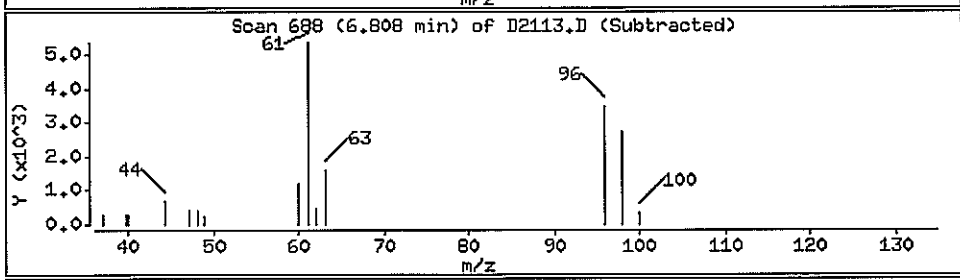
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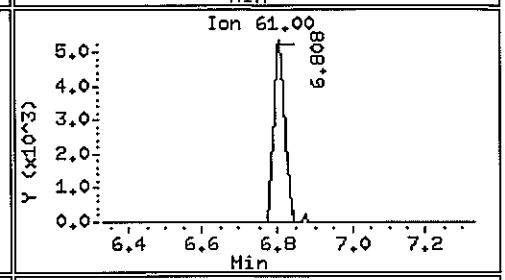
Sample Info: SF6628-9

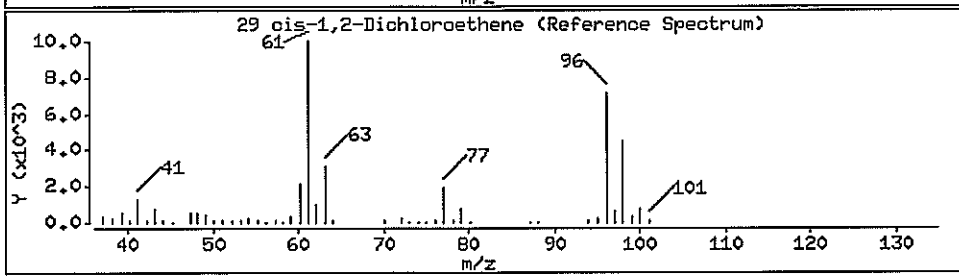
29 cis-1,2-Dichloroethene Concentration: 1.4 ug/l

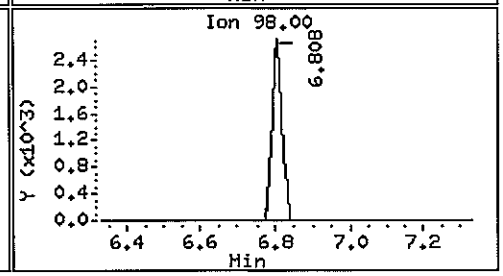




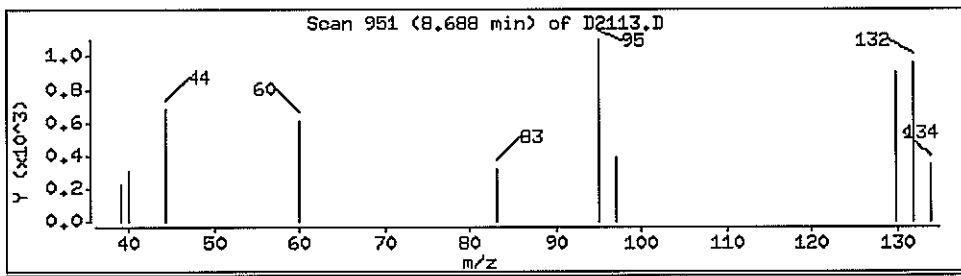


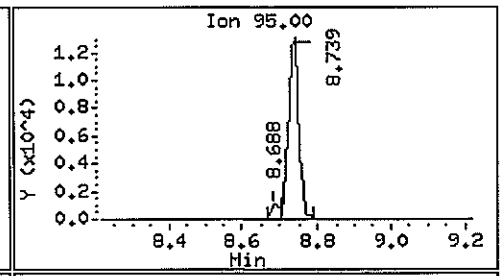


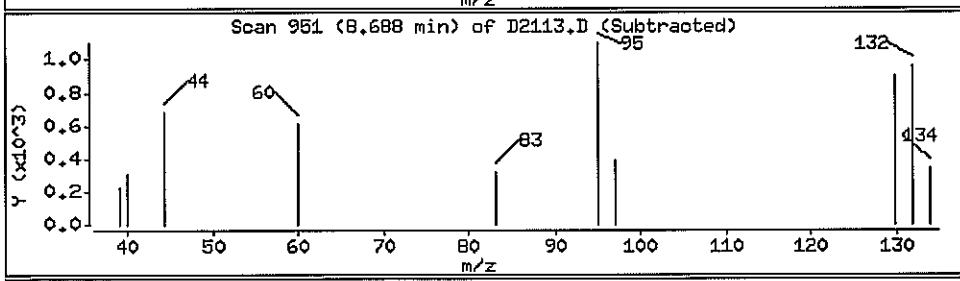


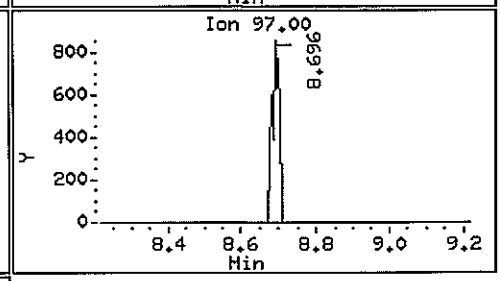


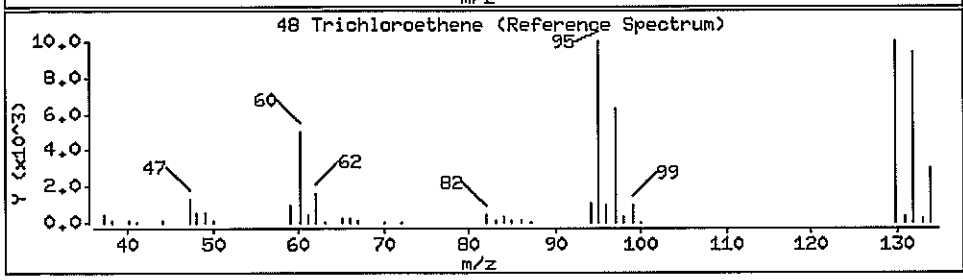
48 Trichloroethene Concentration: 0.30 ug/l











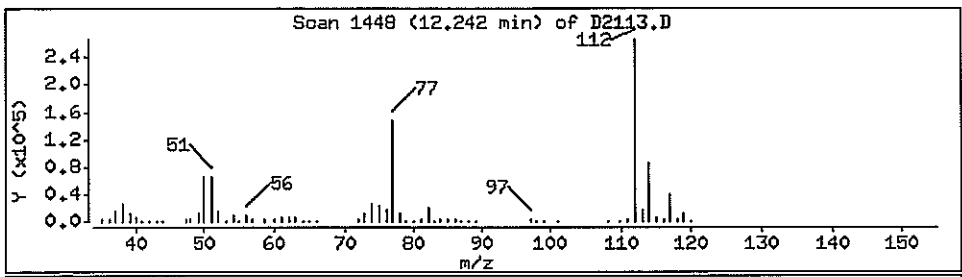
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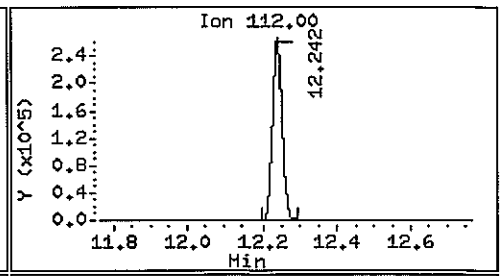
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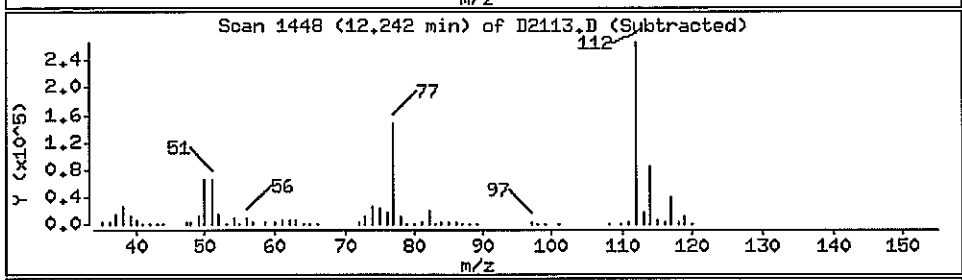
Client ID: AOC9-MW19PM092612 Instrument: gcms-d.i

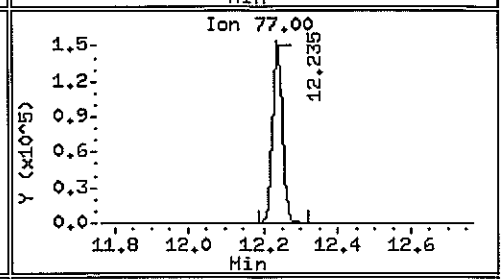
Sample Info: SF6628-9

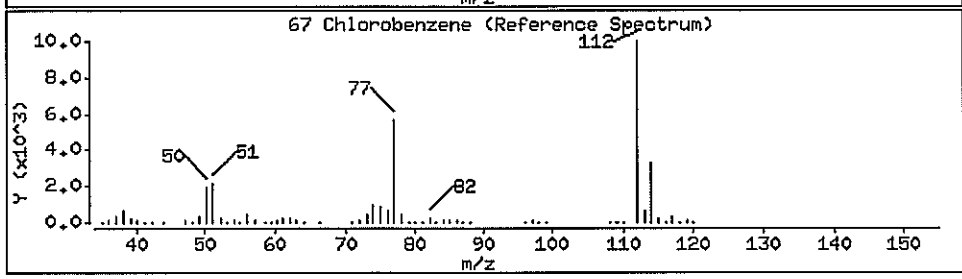
67 Chlorobenzene Concentration: 30.6 ug/l

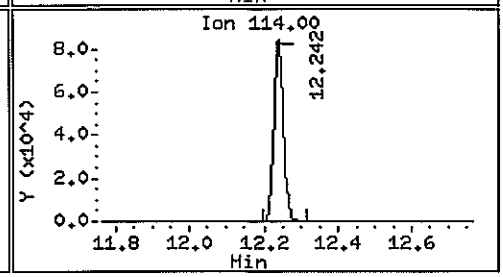




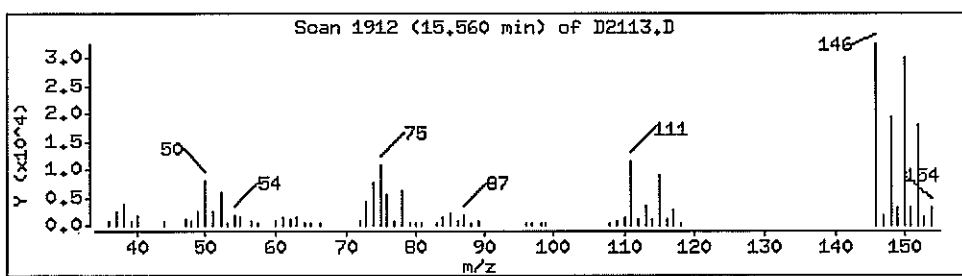


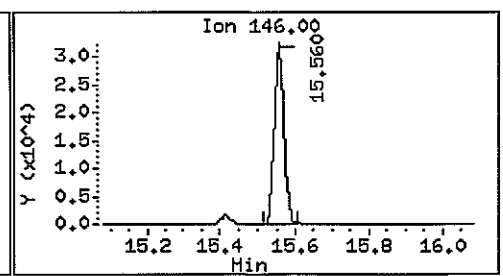


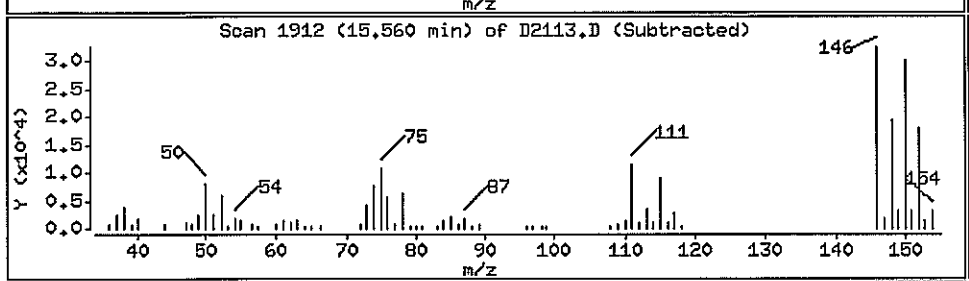


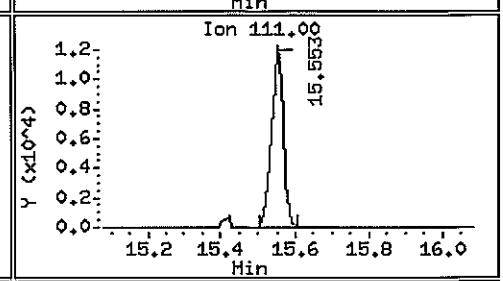


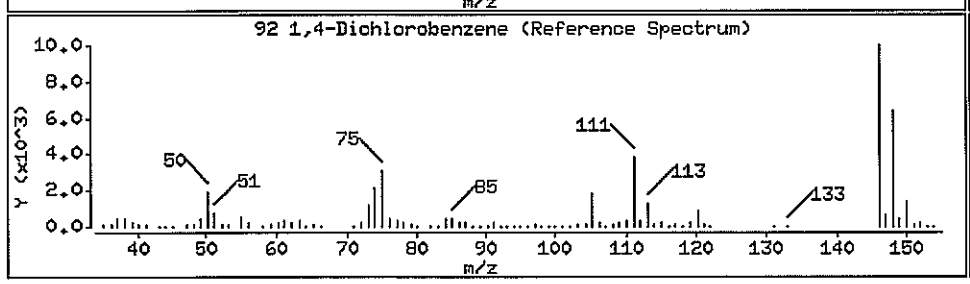
92 1,4-Dichlorobenzene Concentration: 4.4 ug/l

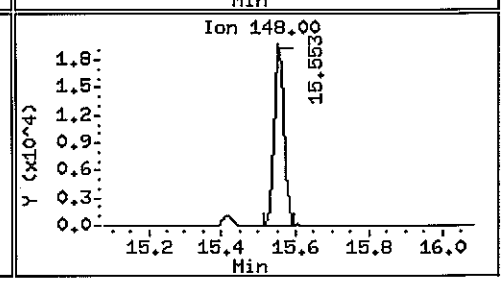












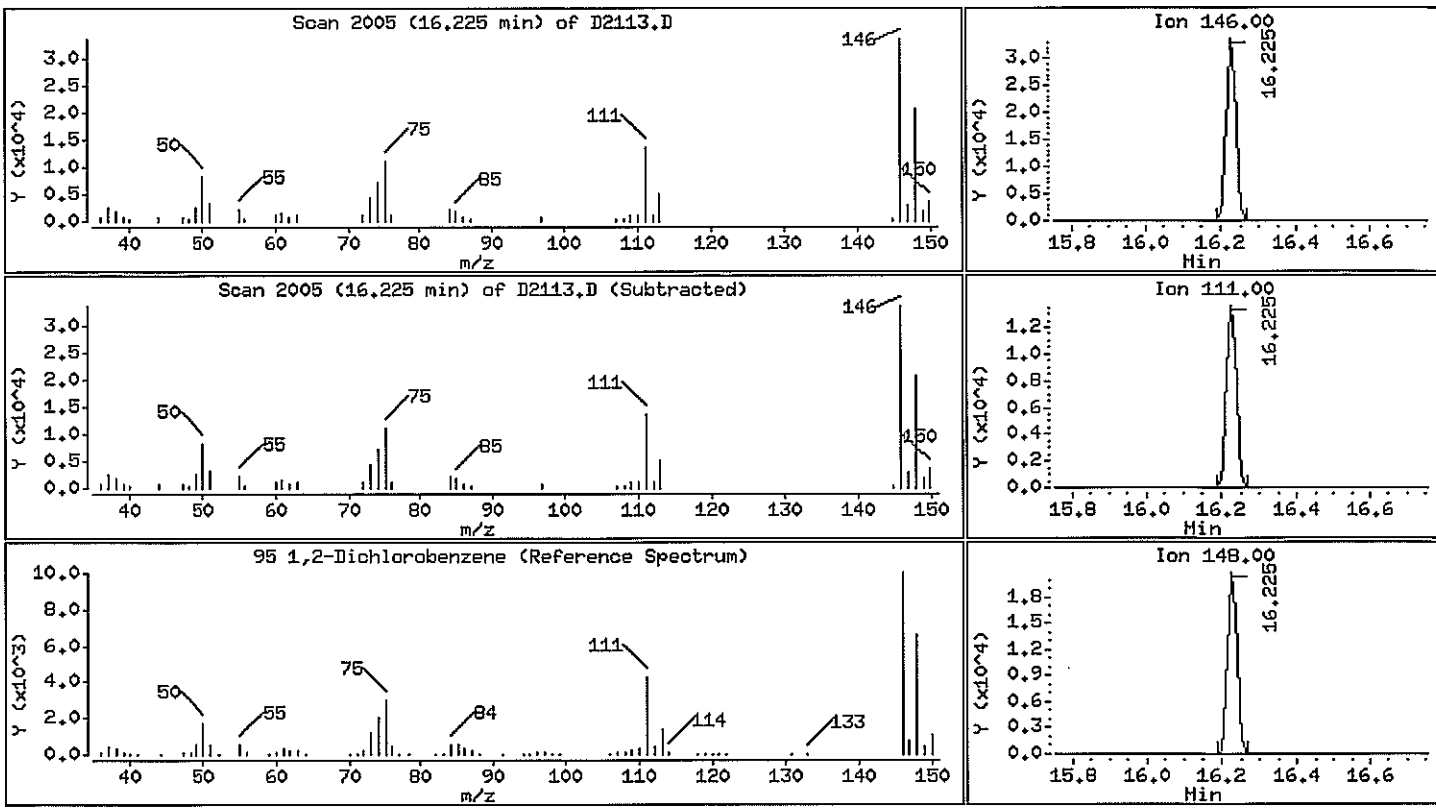
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Date : 03-OCT-2012 16:51

Client ID: A0C9-MW19PM092612 Instrument: gcms-d.i

Sample Info: SF6628-9

95 1,2-Dichlorobenzene Concentration: 5.4 ug/l



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-10
Client ID: AOC9-MW19/DPM0926
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2114.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		1.8	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.28	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	J	0.35	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	UL	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	UL	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SF6628-10
Client ID: AOC9-MW19/DPM0926
Project: Former Griffiss Air Force Bas
SDG: SF6628
Lab File ID: D2114.D

Sample Date: 26-SEP-12
Received Date: 27-SEP-12
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene		38.	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	UL	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		5.3	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		6.8	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	UC	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	UC	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		106.	%					
Toluene-d8		102.	%					
P-Bromofluorobenzene		97.4	%					
Dibromofluoromethane		105.	%					

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-d.i\D100312.b\D2114.D
Report Date: 15-Oct-2012 11:21

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D100312.b\D2114.D
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Inj Date : 03-OCT-2012 17:19 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : SF6628-10
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Meth Date : 15-Oct-2012 11:10 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

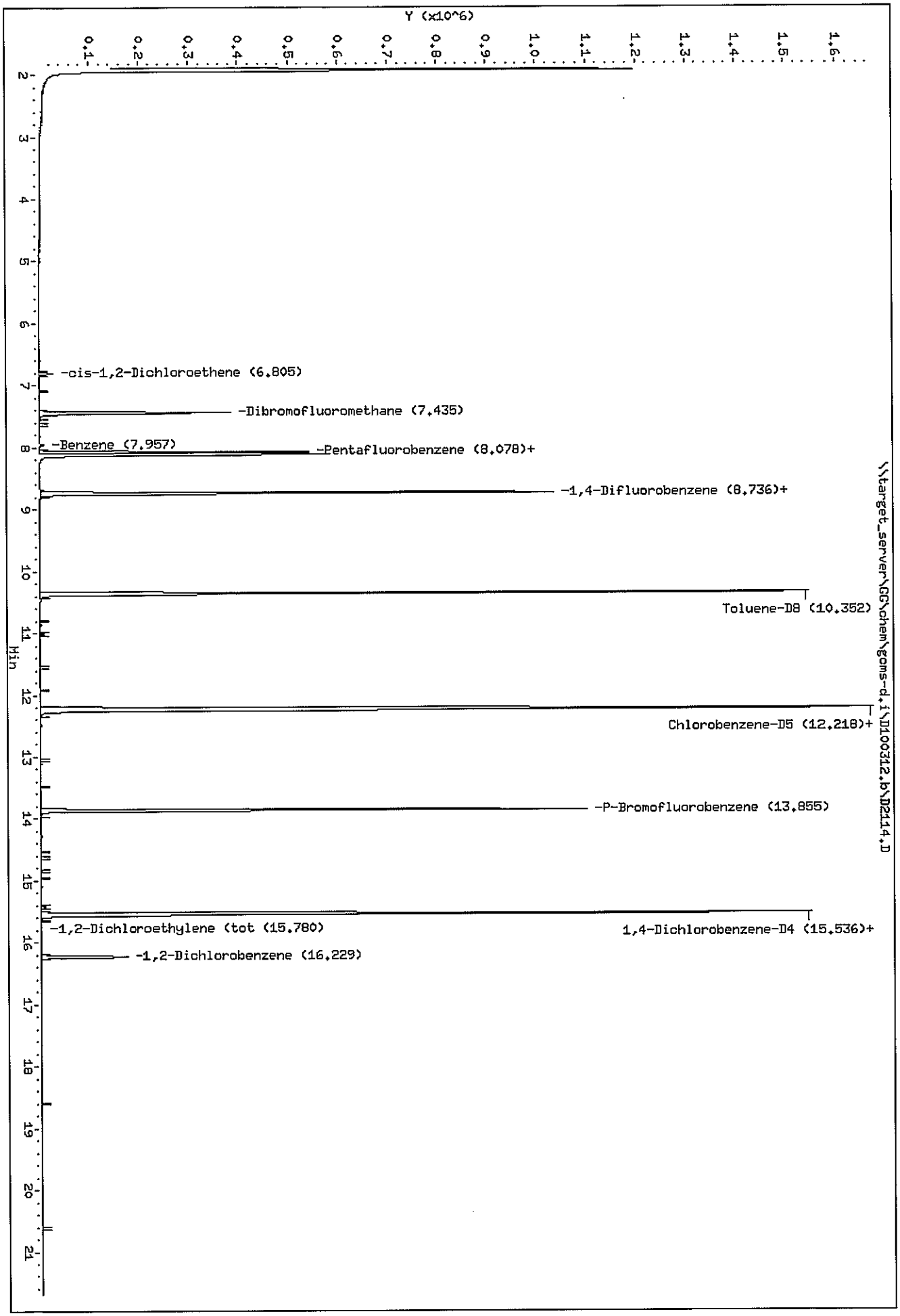
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	29 cis-1,2-Dichloroethene	96	6.805	6.827	(0.842)	8939	1.86000	1.8	
M	30 1,2-Dichloroethylene (total)	96				8939	1.86000	1.8(a)	
$	37 Dibromofluoromethane	113	7.434	7.463	(0.920)	224297	52.4729	52.5	
	41 Benzene	78	7.956	7.978	(0.911)	5675	0.27987	0.28(aM)	M10
*	42 Pentafluorobenzene	168	8.085	8.100	(1.000)	431661	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.113	8.143	(1.004)	304526	52.7696	52.8	
	48 Trichloroethene	95	8.693	8.715	(0.995)	1941	0.34867	0.35(aH)	
*	49 1,4-Difluorobenzene	114	8.735	8.757	(1.000)	747202	50.0000		
$	55 Toluene-D8	98	10.351	10.373	(1.185)	916122	50.9586	51.0	
*	66 Chlorobenzene-D5	117	12.218	12.240	(1.000)	717514	50.0000		
	67 Chlorobenzene	112	12.239	12.261	(1.002)	538965	38.1903	38.2	
$	76 P-Bromofluorobenzene	95	13.855	13.877	(1.586)	362011	48.7276	48.7	
*	91 1,4-Dichlorobenzene-D4	152	15.535	15.557	(1.000)	400804	50.0000		
	92 1,4-Dichlorobenzene	146	15.557	15.579	(1.001)	64380	5.32963	5.3	
	95 1,2-Dichlorobenzene	146	16.229	16.251	(1.045)	70276	6.82316	6.8	

LWS 10-15-12

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: AOC9-MW19/DPM092612
Sample Info: SF6628-10

Instrument: goms-d.i

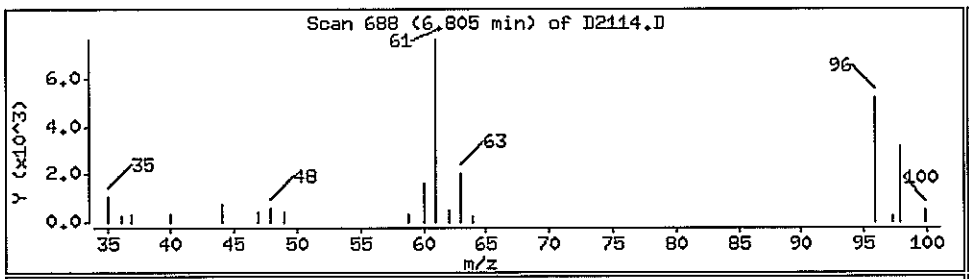
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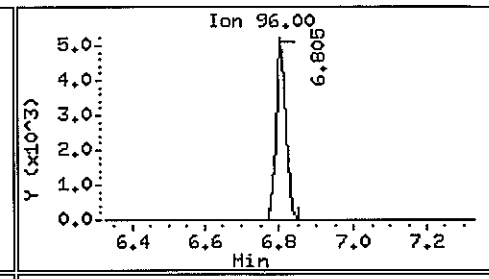
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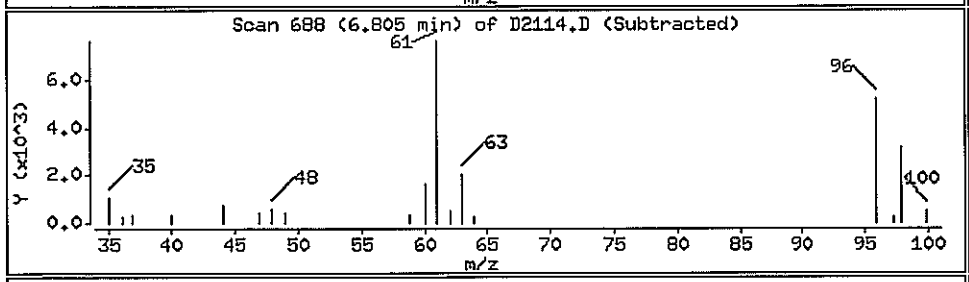
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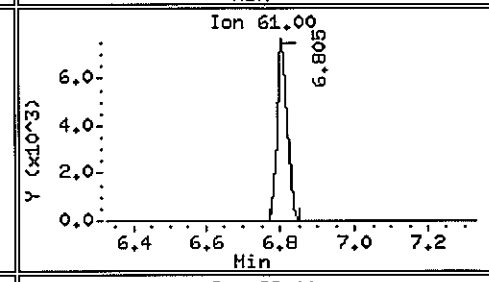
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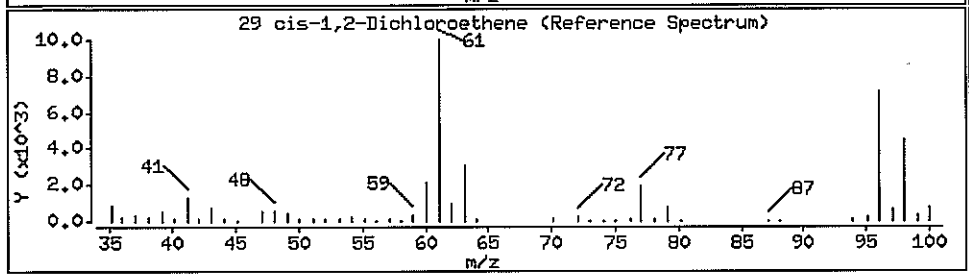
29 cis-1,2-Dichloroethene Concentration: 1.8 ug/l

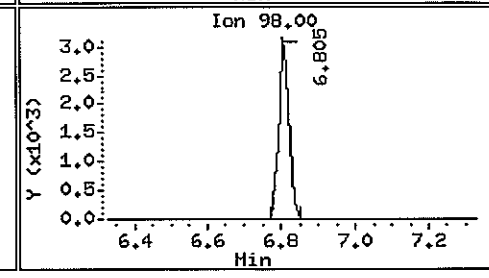




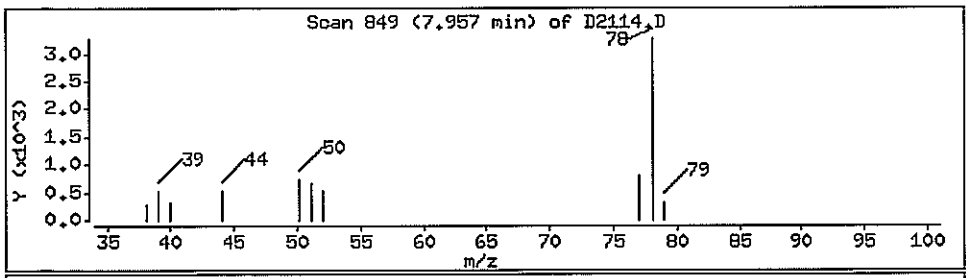


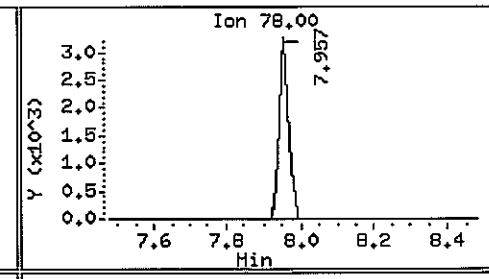


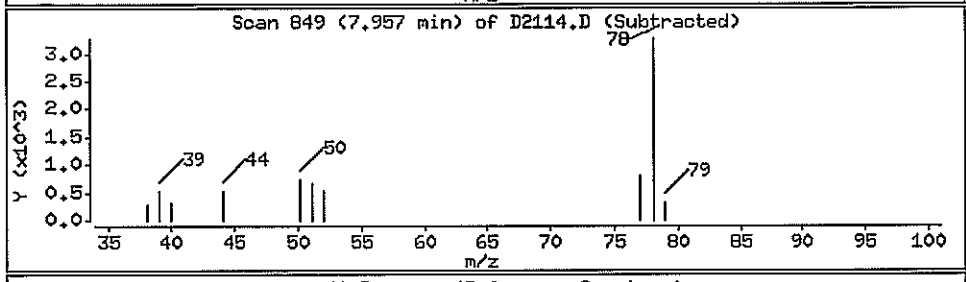


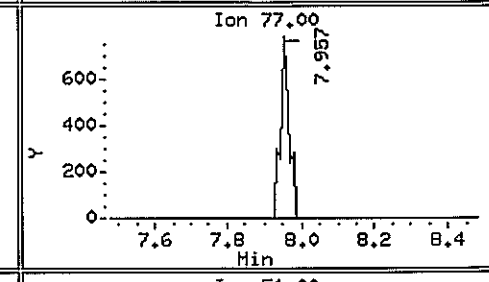


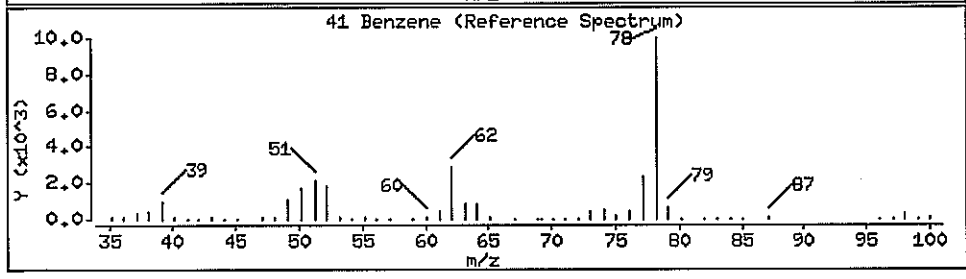
41 Benzene Concentration: 0.28 ug/l

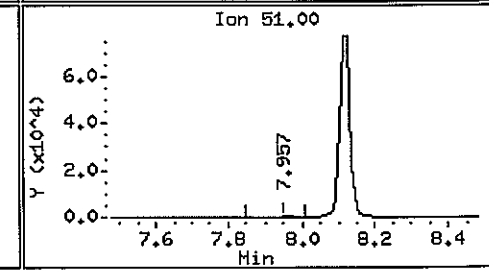












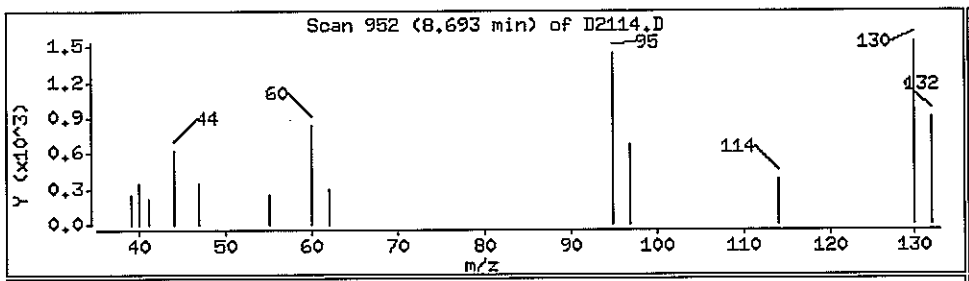
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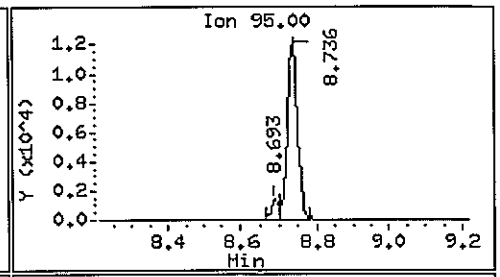
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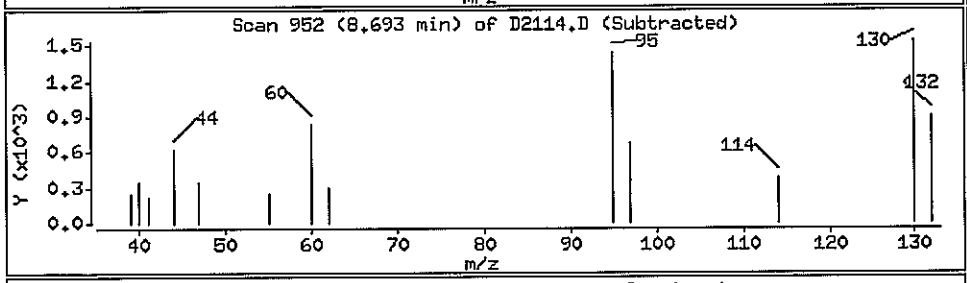
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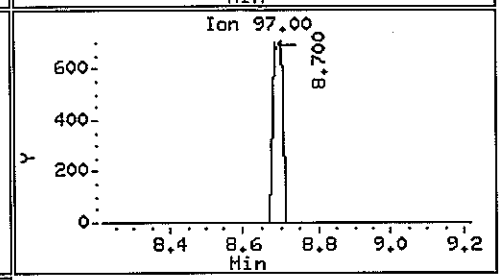
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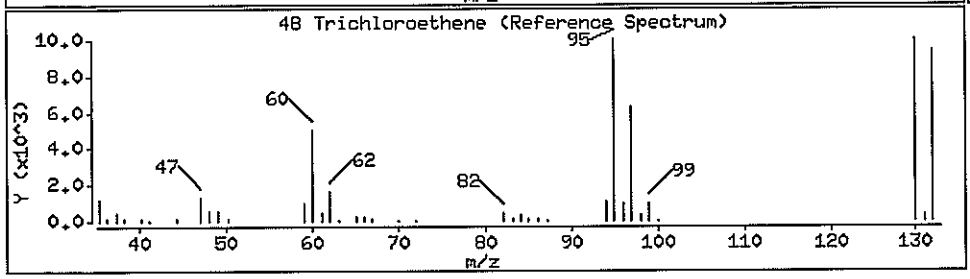
48 Trichloroethene Concentration: 0.35 ug/l



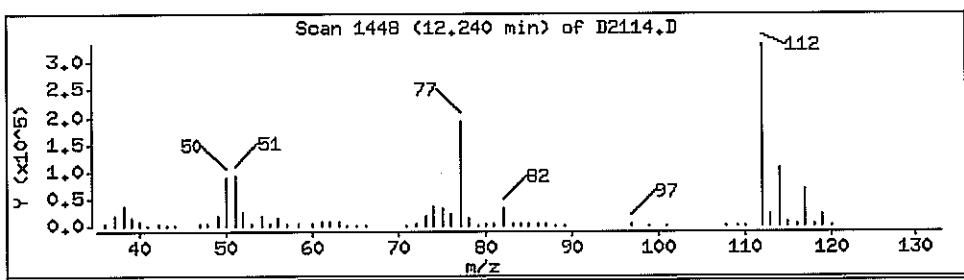


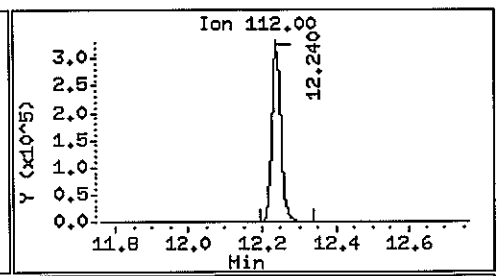


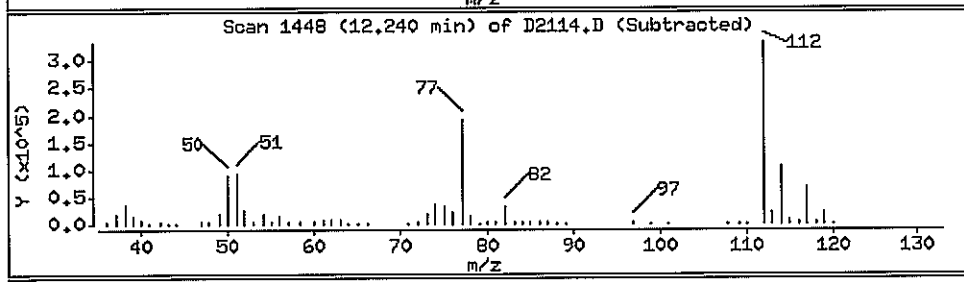


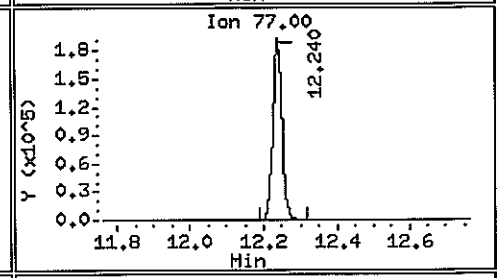


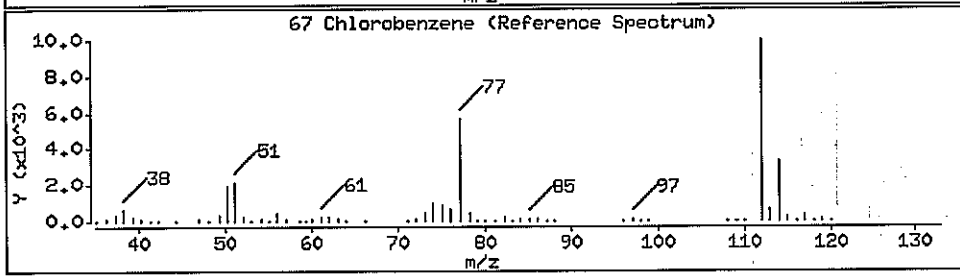
67 Chlorobenzene Concentration: 38.2 ug/l

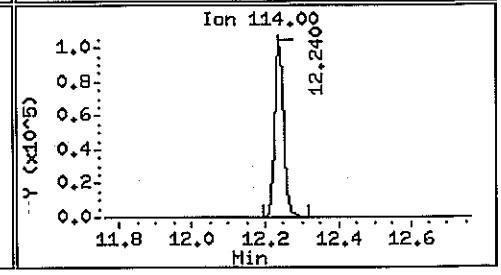












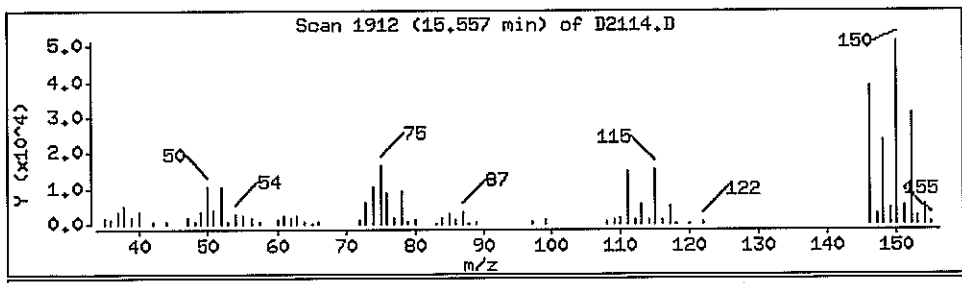
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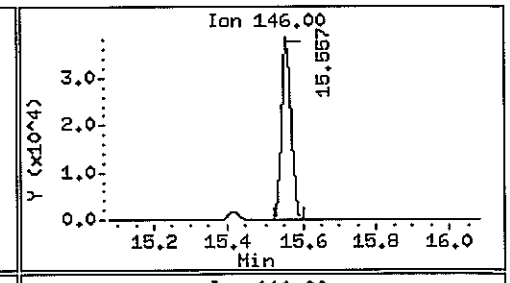
Date : 03-OCT-2012 17:19

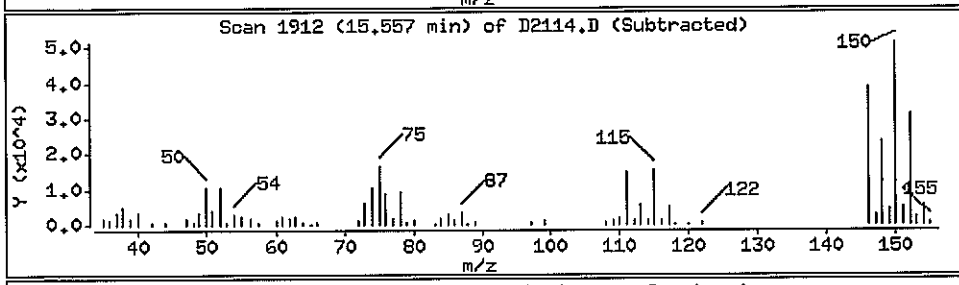
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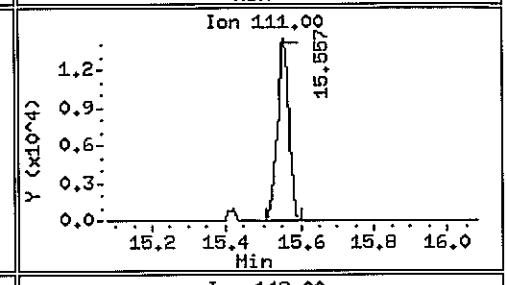
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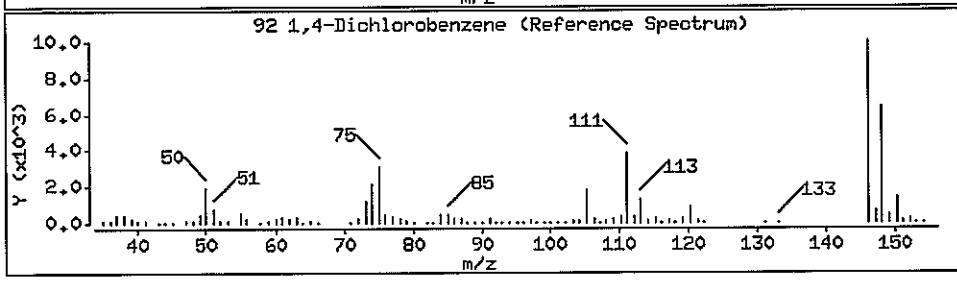
92 1,4-Dichlorobenzene Concentration: 5.3 ug/l

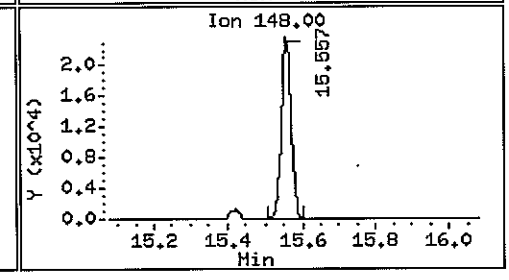




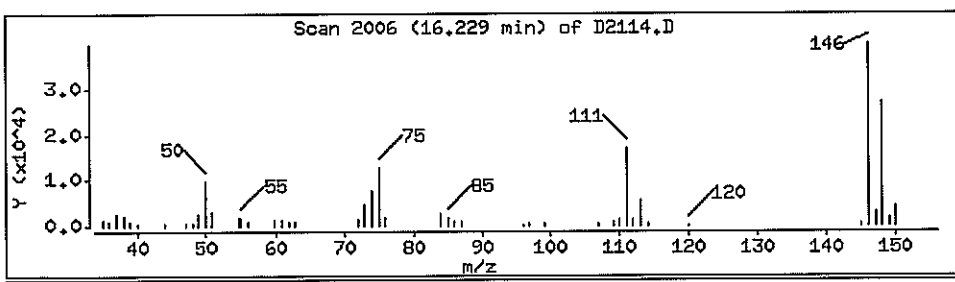


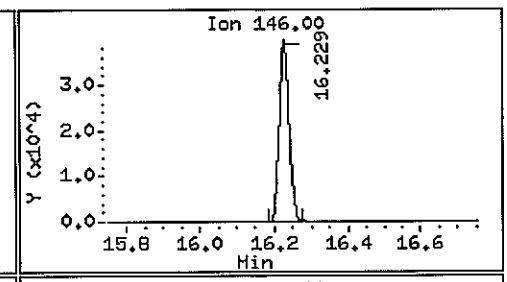


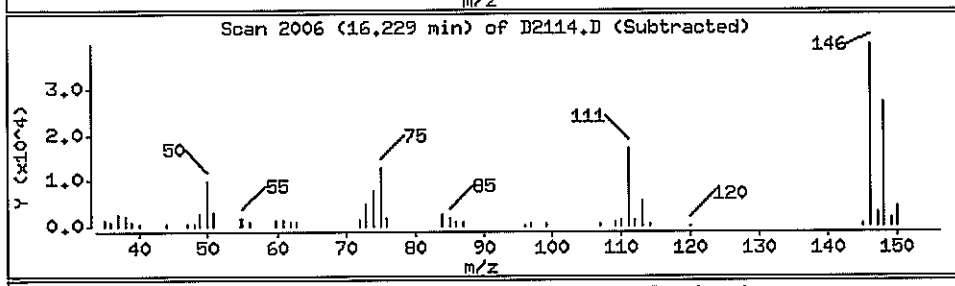


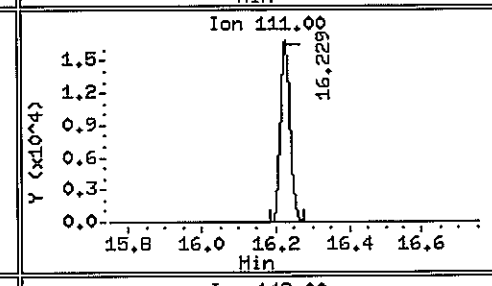


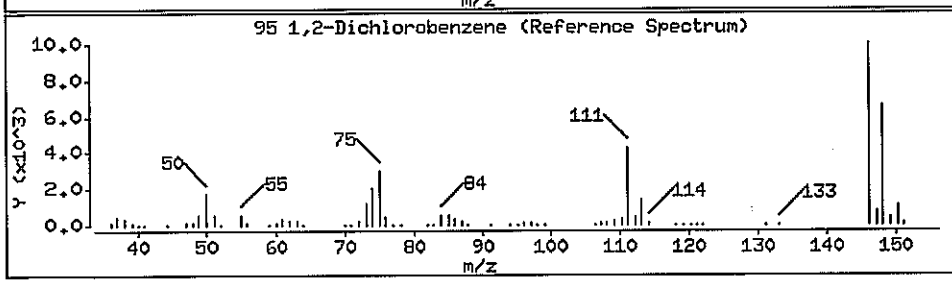
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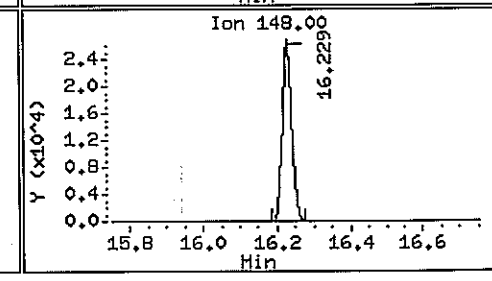








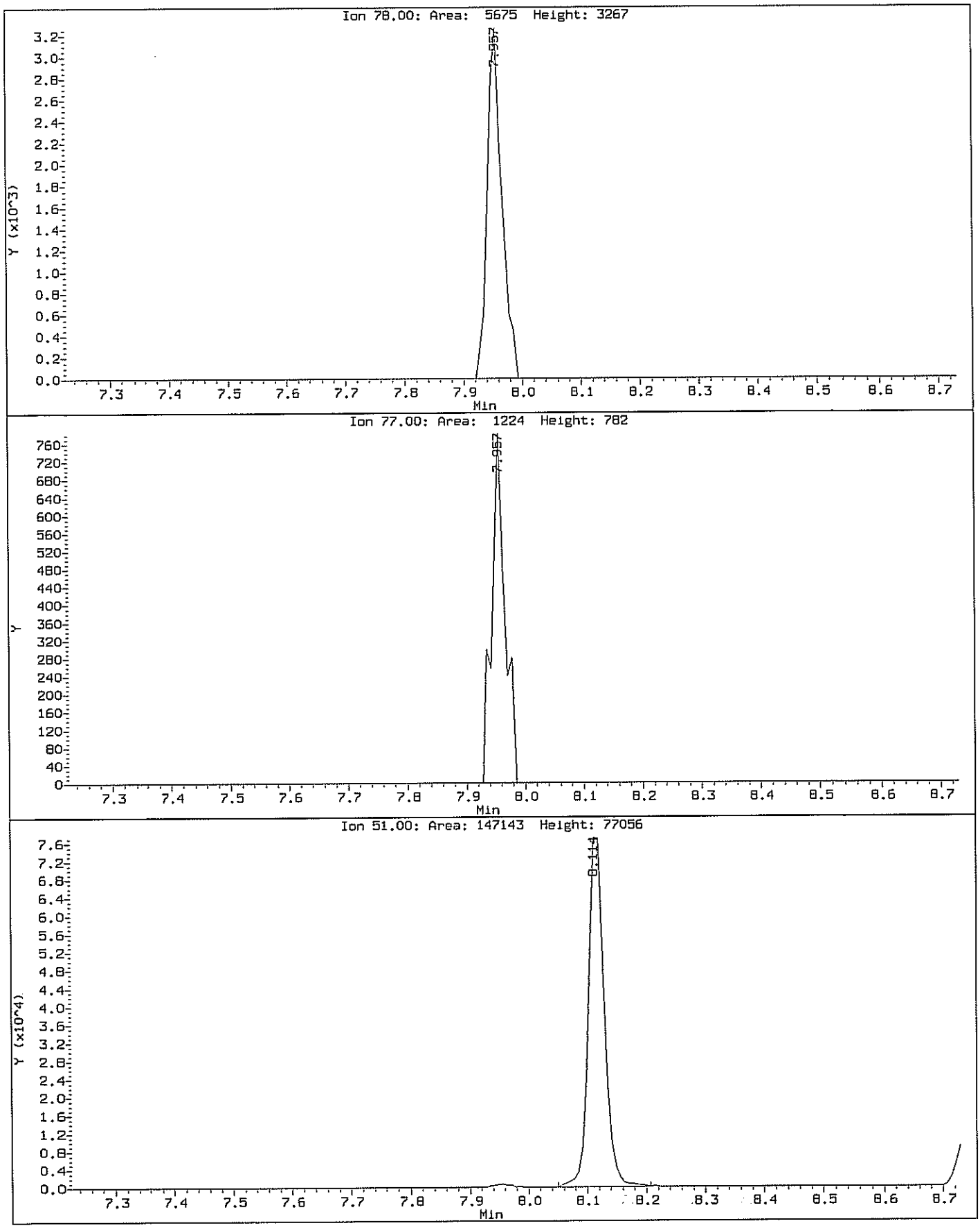




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Injection Date: 03-OCT-2012 17:19
Instrument: gcms-d.i
Client Sample ID: AOC9-MW19/DPM092612

Compound: Benzene
CAS Number: 71-43-2

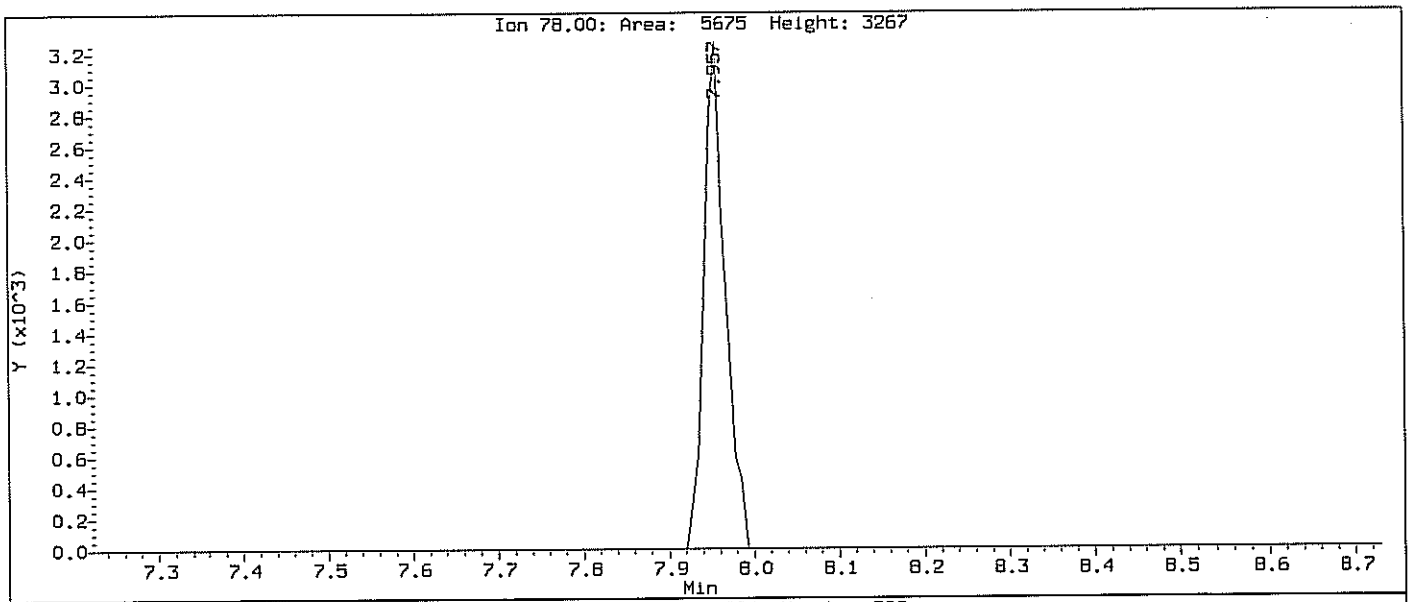
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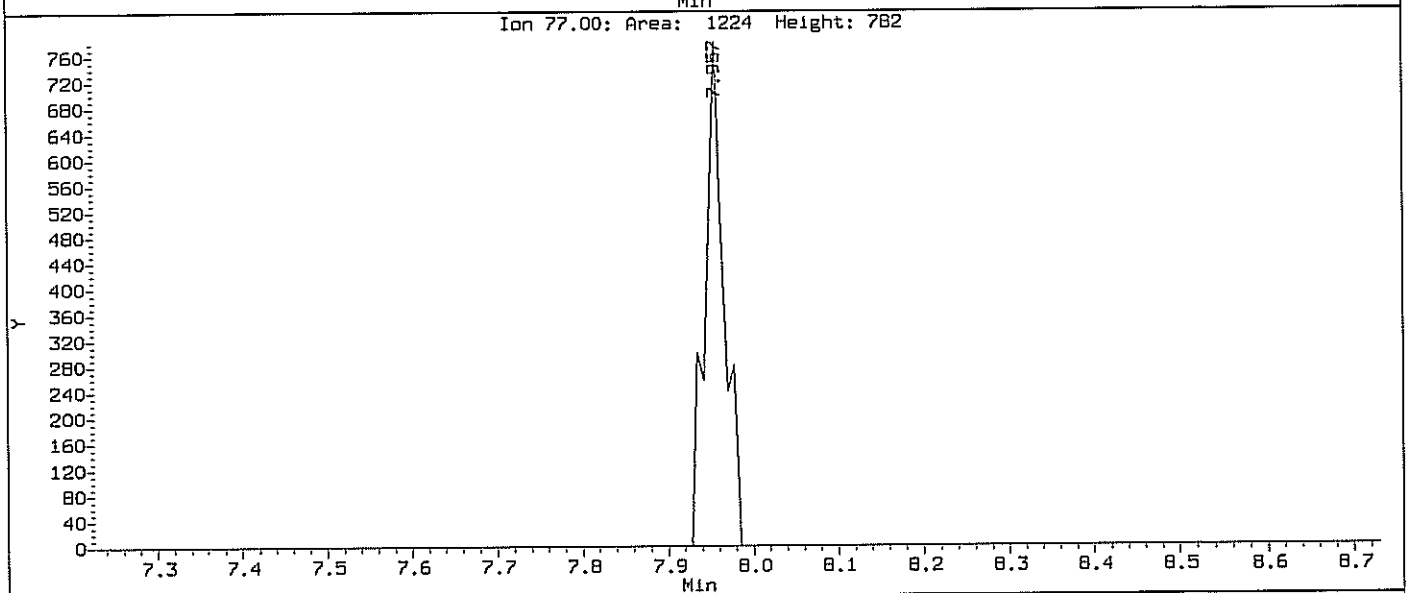


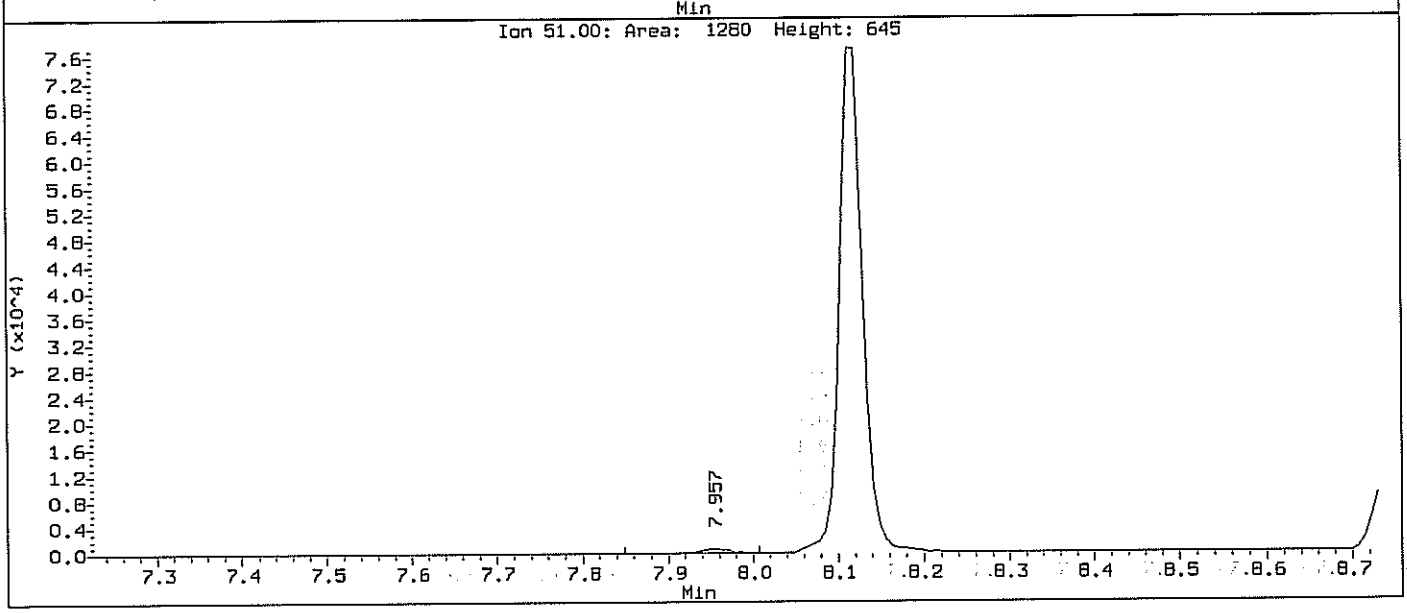
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Injection Date: 03-OCT-2012 17:19
Instrument: gcms-d.i
Client Sample ID: AOC9-MW19/DPM092612

After

Compound: Benzene
CAS Number: 71-43-2







Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SF6628

Project : Former Griffiss Air Force Base, AOC 9 **Instrument ID:** GCMS-D

Lab File IDs : D2000.D D1999.D D1998.D D1995.D D2001.D D1996.D **Calibration Date(s):** 28-SEP-12 10:11, 28-SEP-12 13:32

Column :

	Level 1 1.0000	Level 2 5.0000	Level 3 20.0000	Level 4 50.0000	Level 5 100.0000	Level 6 200.0000	Crv New	b	m1	m2	%RSD	Max %RSD	
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Chloromethane	0.95888	0.90143	0.84869	0.81606	0.85367	0.96164	AVG		0.89006		6.83408	15.0000	O
Vinyl chloride	0.76350	0.66518	0.66894	0.64608	0.67546	0.64474	AVG		0.67732		6.49789	15.0000	O
Bromomethane	2243	11400	52342	129373	352406	666995	QUA	0.06547	3.52754	0.36126	0.99396	0.99000	O
Chloroethane	0.54632	0.46756	0.39621	0.39875	0.40544	0.38696	AVG		0.43354		14.3826	15.0000	O
Trichlorofluoromethane	0.69883	0.88472	0.84909	0.83100	0.87803	0.85612	AVG		0.83296		8.23066	15.0000	O
1,1-Dichloroethene	0.51897	0.40771	0.42971	0.40719	0.41749	0.42110	AVG		0.43369		9.83010	15.0000	O
Carbon Disulfide	1.91607	1.54940	1.57455	1.54383	1.60618	1.55984	AVG		1.62498		8.88270	15.0000	O
Freon-113	0.25772	0.34164	0.34417	0.29898	0.30828	0.30632	AVG		0.30952		10.2557	15.0000	O
Methylene Chloride	0.59040	0.52409	0.58408	0.54920	0.55056	0.54643	AVG		0.55746		4.49919	15.0000	O
Acetone	0.14477	0.14673	0.15842	0.13639	0.13483	0.14714	AVG		0.14471		5.90260	15.0000	O
trans-1,2-Dichloroethene	0.60432	0.52588	0.55194	0.50665	0.52778	0.53166	AVG		0.54137		6.29036	15.0000	O
Methyl tert-butyl ether	1.11634	1.34509	1.48607	1.32403	1.33877	1.29970	AVG		1.31833		9.00402	15.0000	O
1,1-Dichloroethane	1.06337	1.05197	1.05802	1.01480	1.04324	1.05366	AVG		1.04751		1.65774	15.0000	O
cis-1,2-Dichloroethene	0.52356	0.54141	0.58233	0.55084	0.56489	0.57703	AVG		0.55668		4.01991	15.0000	O
Bromochloromethane	0.20334	0.25357	0.25454	0.24473	0.23302	0.23160	AVG		0.23680		8.05633	15.0000	O
Chloroform	0.87901	0.94679	0.97353	0.93217	0.94203	0.95353	AVG		0.93784		3.40905	15.0000	O
Carbon Tetrachloride	0.40283	0.38869	0.43686	0.41429	0.42931	0.43460	AVG		0.41776		4.61913	15.0000	O
1,1,1-Trichloroethane	0.87016	0.80915	0.86034	0.83026	0.84410	0.84572	AVG		0.84329		2.57321	15.0000	O
2-Butanone	0.18772	0.24247	0.28408	0.24490	0.24713	0.25637	AVG		0.24378		12.8930	15.0000	O
Benzene	1.40344	1.37465	1.41183	1.32527	1.33275	1.29336	AVG		1.35688		3.47545	15.0000	O
Cyclohexane	0.72610	1.01136	1.13384	1.02537	1.06451	1.02444	AVG		0.99760		14.0646	15.0000	O
1,2-Dichloroethane	0.44866	0.50654	0.53990	0.49004	0.50423	0.51593	AVG		0.50088		6.07929	15.0000	O
Trichloroethene	0.46406	0.37358	0.36067	0.34186	0.35098	0.34392	AVG		0.37251		12.4431	15.0000	O
1,2-Dichloropropane	0.30437	0.34060	0.36522	0.35114	0.36051	0.36703	AVG		0.34814		6.77662	15.0000	O
Bromodichloromethane	0.32665	0.41227	0.45983	0.45533	0.46655	0.48066	AVG		0.43355		13.1911	15.0000	O
cis-1,3-dichloropropene	0.41419	0.51896	0.58653	0.57736	0.59397	0.61204	AVG		0.55051		13.4155	15.0000	O
1,4-Dioxane	0.01428	0.01168	0.00763	0.00068	0.00045	0.00089	AVG		0.00593		104	15.0000	W
Toluene	0.89954	0.88037	0.90790	0.86529	0.87249	0.84830	AVG		0.87898		2.50904	15.0000	O
4-methyl-2-pentanone	20831	175112	863530	1871279	3711596	6950205	LNR	-0.24910	0.32778		0.99605	0.99000	O
Tetrachloroethene	0.36282	0.29223	0.31519	0.29635	0.28896	0.28554	AVG		0.30685		9.55715	15.0000	O
trans-1,3-Dichloropropene	6456	43764	210119	502536	1021245	2235282	LNR	0.02459	0.51809		0.99955	0.99000	O
1,1,2-Trichloroethane	0.19549	0.24477	0.25722	0.24139	0.24402	0.24624	AVG		0.23819		9.07822	15.0000	O
Dibromochloromethane	4330	29754	141695	342889	707980	1556190	LNR	0.03863	0.39874		0.99869	0.99000	O
1,2-Dibromoethane	0.24019	0.28197	0.31187	0.29234	0.29941	0.31032	AVG		0.28935		9.18021	15.0000	O
2-Hexanone	12872	115875	583743	1238047	2554030	5061043	LNR	-0.06674	0.26115		0.99953	0.99000	O
Chlorobenzene	1.00855	1.00638	1.02878	0.97524	0.94670	0.93500	AVG		0.98344		3.79812	15.0000	O

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SF6628

Project : Former Griffiss Air Force Base, AOC 9 **Instrument ID:** GCMS-D

Lab File IDs : D2000.D D1999.D D1998.D D1995.D D2001.D D1996.D **Calibration Date(s):** 28-SEP-12 10:11 28-SEP-12 13:32

Column :

Ethylbenzene	0.59965	0.57878	0.56717	0.55068	0.54521	0.55058	AVG		0.56534		3.70965	15.0000(O
m+p-Xylenes	0.75215	0.70329	0.70530	0.67200	0.65936	0.63132	AVG		0.68724		6.15045	15.0000(O
o-Xylene	0.57317	0.65536	0.66475	0.63299	0.62717	0.64467	AVG		0.63302		5.12274	15.0000(O
Styrene	0.86268	1.09536	1.19082	1.15734	1.15769	1.13574	AVG		1.09994		10.9462!	15.0000(O
Bromoform	2537	17441	89280	212824	450008	1005207	LNR	0.05041	0.25755		0.99791	0.99000 O
Isopropylbenzene	2.98236	2.86026	2.90095	2.77933	2.73935	2.53769	AVG		2.79999		5.53268	15.0000(O
N-Propylbenzene	3.93589	3.54284	3.58221	3.34972	3.26862	2.95582	AVG		3.43918		9.63186	15.0000(O
1,1,2,2-Tetrachloroethane	0.68148	0.76812	0.81719	0.72179	0.73967	0.74704	AVG		0.74588		6.09866	15.0000(O
1,3,5-Trimethylbenzene	2.38610	2.51450	2.64188	2.47075	2.42515	2.27725	AVG		2.45260		5.02378	15.0000(O
4-Chlorotoluene	2.21109	2.22895	2.24254	2.12634	2.09562	2.02910	AVG		2.15560		3.96223	15.0000(O
tert-Butylbenzene	2.29621	2.27807	2.42572	2.32182	2.30271	2.22413	AVG		2.30811		2.88338	15.0000(O
1,2,4-Trimethylbenzene	2.37429	2.40592	2.56690	2.47126	2.44155	2.33048	AVG		2.43173		3.39834	15.0000(O
P-Isopropyltoluene	2.63148	2.35775	2.58618	2.46030	2.44434	2.29424	AVG		2.46238		5.24709	15.0000(O
1,3-Dichlorobenzene	1.31545	1.43062	1.42914	1.33921	1.33218	1.31715	AVG		1.36063		3.99755	15.0000(O
1,4-Dichlorobenzene	1.53227	1.57021	1.56560	1.49262	1.44833	1.43254	AVG		1.50693		3.89917	15.0000(O
N-Butylbenzene	2.69099	2.06888	2.45571	2.40282	2.35861	2.22397	AVG		2.36683		8.93332	15.0000(O
sec-Butylbenzene	3.46084	3.02758	3.14899	2.93293	2.87705	2.65920	AVG		3.01776		9.00451	15.0000(O
1,2-Dichlorobenzene	1.17177	1.32471	1.36447	1.29111	1.28262	1.27455	AVG		1.28487		5.02777	15.0000(O
1,2-Dibromo-3-Chloropropane	651	5383	26936	62473	127345	288463	LNR	0.03991	0.12808		0.99824	0.99000 O
1,2,4-Trichlorobenzene	0.83736	0.62050	0.75610	0.76337	0.76276	0.79389	AVG		0.75566		9.63652	15.0000(O
Naphthalene	10224	53633	295967	780805	1586203	3335547	LNR	0.02285	1.49509		0.99989	0.99000 O
1,2,3-Trichlorobenzene	0.63816	0.52925	0.63735	0.62575	0.62840	0.65256	AVG		0.61858		7.23621	15.0000(O
Methyl Acetate	0.40998	0.43471	0.43960	0.39117	0.42681	0.43892	AVG		0.42353		4.55537	15.0000(O
Methylcyclohexane	0.61140	0.89190	0.96061	0.82205	0.86149	0.83850	AVG		0.83099		14.2182(	15.0000(O
Dibromofluoromethane	0.49155	0.49183	0.49234	0.49724	0.48812	0.50968	AVG		0.49513		1.55591	15.0000(
1,2-Dichloroethane-D4	0.66336	0.67317	0.68247	0.65568	0.66350	0.67252	AVG		0.66845		1.41767	15.0000(
Toluene-D8	1.37093	1.20327	1.18930	1.22005	1.15067	1.08382	AVG		1.20301		7.94004	15.0000(
P-Bromofluorobenzene	0.51614	0.49685	0.50049	0.49680	0.48382	0.48873	AVG		0.49714		2.24081	15.0000(

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\GG\chem\gcms-d.i\D092812.b\D2002A.D
Report Date: 15-Oct-2012 10:56

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Client SDG: WG114145
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: WG114145-10
Client Smp ID: Independent Source
Level: LOW
Operator: REC
Data Type: MS DATA
SampleType: LCS
SpikeList File: IND_CHECK4.1.spk
Quant Type: ISTD
Sublist File: all.sub
Method File: \\target_server\gg\chem\gcms-d.i\D092812.b\D826A10.m
Misc Info: WG114145,WG114145-4,SF6628-1

	SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	1 Dichlorodifluorome	50.0	53.7	107.42	80-120
	2 Chloromethane	50.0	45.9	91.72	80-120
	3 Vinyl chloride	50.0	48.9	97.85	80-120
	4 Bromomethane	50.0	45.7	91.41	80-120
	5 Chloroethane	50.0	44.6	89.13	80-120
	6 Trichlorofluoromet	50.0	49.3	98.59	80-120
	7 Diethyl Ether	50.0	48.6	97.15	80-120
	8 Tertiary-butyl alc	250	249	99.54	80-120
	9 1,1-Dichloroethene	50.0	49.1	98.18	80-120
	10 Carbon Disulfide	50.0	46.6	93.31	80-120
	11 Freon-113	50.0	47.8	95.68	80-120
	12 Iodomethane	50.0	48.6	97.17	80-120
	13 Acrolein	250	241	96.55	80-120
	14 Methylene Chloride	50.0	48.4	96.75	80-120
	15 Acetone	50.0	46.8	93.57	80-120
	16 Isobutyl Alcohol	1000	1080	108.08	80-120
	17 trans-1,2-Dichloro	50.0	46.5	93.06	80-120
	18 Allyl Chloride	50.0	47.4	94.90	80-120
	19 Methyl tert-butyl	100	103	103.04	80-120
	20 Acetonitrile	500	478	95.69	80-120
	21 Di-isopropyl ether	50.0	49.7	99.40	80-120
	22 Chloroprene	50.0	47.0	93.91	80-120
	23 Propionitrile	500	464	92.73	80-120
	24 Methacrylonitrile	500	500	100.02	80-120
	25 1,1-Dichloroethane	50.0	48.9	97.85	80-120
	26 Acrylonitrile	250	247	98.67	80-120
	27 Ethyl tertiary-but	50.0	50.6	101.15	80-120
	28 Vinyl Acetate	50.0	55.2	110.43	80-120
	29 cis-1,2-Dichloroet	50.0	49.0	98.10	80-120
M	30 1,2-Dichloroethyle	100	95.6	95.58	80-120
	31 Methyl Methacrylat	50.0	46.8	93.68	80-120
	32 2,2-Dichloropropan	50.0	45.3	90.57	80-120
	33 Bromochloromethane	50.0	50.0	100.04	80-120
	34 Chloroform	50.0	48.4	96.77	80-120
	35 Carbon Tetrachlori	50.0	48.8	97.72	80-120
	36 Tetrahydrofuran	50.0	51.7	103.45	80-120
	38 1,1,1-Trichloroeth	50.0	47.3	94.63	80-120
	39 1,1-Dichloropropen	50.0	48.2	96.43	80-120
	40 2-Butanone	50.0	46.9	93.89	80-120
	41 Benzene	50.0	48.8	97.51	80-120

Data File: \\target_server\GG\chem\gcms-d.i\D092812.b\D2002A.D
Report Date: 15-Oct-2012 10:56

SPIKE		COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	43	Cyclohexane	50.0	52.8	105.59	80-120
	44	Ethyl Methacrylate	50.0	47.9	95.87	80-120
	46	Tertiary-amyl meth	50.0	50.3	100.63	80-120
	47	1,2-Dichloroethane	50.0	49.6	99.23	80-120
	48	Trichloroethene	50.0	44.7	89.43	80-120
	50	Dibromomethane	50.0	49.6	99.15	80-120
	51	1,2-Dichloropropan	50.0	50.9	101.78	80-120
	52	Bromodichlorometha	50.0	53.3	106.60	80-120
	53	cis-1,3-dichloropr	50.0	50.6	101.19	80-120
	54	1,4-Dioxane	1000	588	58.82*	80-120
	56	2-Chloroethylvinyl	50.0	52.2	104.50	80-120
	57	Toluene	50.0	48.4	96.81	80-120
	58	4-methyl-2-pentano	50.0	39.0	78.03*	80-120
	59	Tetrachloroethene	50.0	45.9	91.74	80-120
	60	trans-1,3-Dichloro	50.0	48.4	96.75	80-120
	61	1,1,2-Trichloroeth	50.0	50.1	100.28	80-120
	62	Dibromochlorometha	50.0	47.7	95.37	80-120
	63	1,3-Dichloropropan	50.0	50.0	100.04	80-120
	64	1,2-Dibromoethane	50.0	50.1	100.13	80-120
	65	2-Hexanone	50.0	42.6	85.14	80-120
	67	Chlorobenzene	50.0	51.2	102.50	80-120
	152	1-Chlorohexane	50.0	45.1	90.18	80-120
	68	Ethylbenzene	50.0	46.7	93.35	80-120
	69	1,1,1,2-Tetrachlor	50.0	51.2	102.43	80-120
M	70	Xylenes (total)	150	150	100.12	80-120
	71	m+p-Xylenes	100	98.2	98.16	80-120
	72	o-Xylene	50.0	52.0	104.05	80-120
	73	Styrene	50.0	51.3	102.64	80-120
	74	Bromoform	50.0	44.1	88.27	80-120
	75	Isopropylbenzene	50.0	51.3	102.62	80-120
	77	cis-1,4-Dichloro-2	50.0	46.8	93.55	80-120
	78	trans-1,4-Dichloro	50.0	47.9	95.89	80-120
	79	Bromobenzene	50.0	49.5	98.96	80-120
	80	N-Propylbenzene	50.0	51.7	103.43	80-120
	81	1,1,2,2-Tetrachlor	50.0	48.4	96.87	80-120
	82	1,3,5-Trimethylben	50.0	48.1	96.24	80-120
	83	2-Chlorotoluene	50.0	50.8	101.50	80-120
	84	1,2,3-Trichloropro	50.0	48.8	97.57	80-120
	85	4-Chlorotoluene	50.0	52.1	104.30	80-120
	86	tert-Butylbenzene	50.0	51.1	102.30	80-120
	87	Pentachloroethane	50.0	49.3	98.62	80-120
	88	1,2,4-Trimethylben	50.0	49.0	97.93	80-120
	89	P-Isopropyltoluene	50.0	52.5	104.97	80-120
	90	1,3-Dichlorobenzen	50.0	51.8	103.62	80-120
	92	1,4-Dichlorobenzen	50.0	47.3	94.56	80-120
	93	N-Butylbenzene	50.0	49.2	98.50	80-120
	94	sec-Butylbenzene	50.0	50.7	101.39	80-120
	95	1,2-Dichlorobenzen	50.0	52.6	105.28	80-120
	96	1,2-Dibromo-3-Chlo	50.0	47.2	94.47	80-120
	97	1,3,5-Trichloroben	50.0	46.6	93.15	80-120
	98	Hexachlorobutadien	50.0	46.7	93.49	80-120
	99	1,2,4-Trichloroben	50.0	47.2	94.44	80-120
	100	1,2,3-Trimethylben	50.0	48.7	97.36	80-120
	101	Naphthalene	50.0	46.2	92.42	80-120

Data File: \\target_server\GG\chem\gcms-d.i\D092812.b\D2002A.D
Report Date: 15-Oct-2012 10:56

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
102 1,2,3-Trichloroben	50.0	50.6	101.13	80-120
103 Methyl Acetate	50.0	48.0	95.99	80-120
104 Methylcyclohexane	50.0	49.2	98.32	80-120
M 153 Total Alkylbenzene	350	352	100.68	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	50.1	100.17	68-128
$ 45 1,2-Dichloroethane	50.0	48.9	97.75	67-135
$ 55 Toluene-D8	50.0	50.4	100.86	65-128
$ 76 P-Bromofluorobenze	50.0	49.3	98.53	56-133

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D1995.D
Report Date: 30-Sep-2012 19:37

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D092812.b\D1995.D
Lab Smp Id: VSTD050D28A
Inj Date : 28-SEP-2012 10:11 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114145-4,VSTD050D28A
Misc Info : SW846 8260B
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D092812.b\D826A10.m
Meth Date : 28-Sep-2012 01:38 djpaul Quant Type: ISTD
Cal Date : 28-SEP-2012 10:11 Cal File: D1995.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

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	2.096	2.108	(0.259)	316324	50.0000	50.0	
2 Chloromethane	50	2.324	2.344	(0.288)	524465	50.0000	50.0	
3 Vinyl chloride	62	2.432	2.444	(0.301)	415223	50.0000	50.0	
4 Bromomethane	94	2.825	2.844	(0.350)	129373	50.0000	50.0	
5 Chloroethane	64	2.989	3.009	(0.370)	256270	50.0000	50.0	
6 Trichlorofluoromethane	101	3.175	3.195	(0.393)	534067	50.0000	50.0	
7 Diethyl Ether	59	3.583	3.602	(0.443)	300741	50.0000	50.0	
8 Tertiary-butyl alcohol	59	5.871	5.890	(0.727)	137933	250.000	250	
9 1,1-Dichloroethene	96	3.855	3.874	(0.477)	261693	50.0000	50.0	
10 Carbon Disulfide	76	3.890	3.917	(0.481)	992185	50.0000	50.0	
11 Freon-113	151	3.926	3.945	(0.486)	192147	50.0000	50.0	
12 Iodomethane	142	4.048	4.074	(0.501)	184187	50.0000	50.0	
13 Acrolein	56	4.334	4.360	(0.536)	142519	250.000	250	
14 Methylene Chloride	84	4.734	4.761	(0.586)	352957	50.0000	50.0	
15 Acetone	43	4.805	4.832	(0.595)	438288	250.000	250	
16 Isobutyl Alcohol	43	8.266	8.286	(1.023)	94412	1000.00	1000	
17 trans-1,2-Dichloroethene	96	5.013	5.039	(0.620)	325612	50.0000	50.0	
18 Allyl Chloride	41	4.562	4.589	(0.565)	642438	50.0000	50.0	
19 Methyl tert-butyl ether	73	5.213	5.240	(0.645)	1701845	100.000	100	
20 Acetonitrile	39	5.571	5.597	(0.689)	80053	500.000	500	
21 Di-isopropyl ether	45	5.864	5.890	(0.726)	1456424	50.0000	50.0	
22 Chloroprene	53	5.985	6.005	(0.741)	715668	50.0000	50.0	
23 Propionitrile	54	7.973	7.992	(0.987)	420820	500.000	500	

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D1995.D
Report Date: 30-Sep-2012 19:37

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	24	Methacrylonitrile	41	8.002	8.028	(0.990)	2427903	500.000	500	
	25	1,1-Dichloroethane	63	6.007	6.033	(0.743)	652191	50.0000	50.0	
	26	Acrylonitrile	52	6.071	6.098	(0.751)	274029	250.000	250	
	27	Ethyl tertiary-butyl ether	59	6.421	6.441	(0.795)	1091423	50.0000	50.0	
	28	Vinyl Acetate	43	6.421	6.441	(0.735)	964728	50.0000	50.0	
	29	cis-1,2-Dichloroethene	96	6.808	6.827	(0.842)	354010	50.0000	50.0	
M	30	1,2-Dichloroethylene (total)	96				679622	50.0000	100	
	31	Methyl Methacrylate	41	9.596	9.615	(1.098)	343467	50.0000	50.0	
	32	2,2-Dichloropropane	77	6.958	6.984	(0.861)	479645	50.0000	50.0	
	33	Bromochloromethane	128	7.079	7.099	(0.876)	157284	50.0000	50.0	
	34	Chloroform	83	7.194	7.220	(0.890)	599085	50.0000	50.0	
	35	Carbon Tetrachloride	117	7.380	7.399	(0.845)	428248	50.0000	50.0	
	36	Tetrahydrofuran	42	7.401	7.420	(0.916)	504281	250.000	250	
$	37	Dibromofluoromethane	113	7.437	7.463	(0.920)	319564	50.0000	50.0	
	38	1,1,1-Trichloroethane	97	7.465	7.492	(0.924)	533592	50.0000	50.0	
	39	1,1-Dichloropropene	75	7.637	7.656	(0.874)	478845	50.0000	50.0	
	40	2-Butanone	43	7.601	7.628	(0.941)	786956	250.000	250	
	41	Benzene	78	7.959	7.978	(0.911)	1369912	50.0000	50.0	
*	42	Pentafluorobenzene	168	8.080	8.100	(1.000)	642678	50.0000		
	43	Cyclohexane	56	7.094	7.120	(0.878)	658981	50.0000	50.0	
	44	Ethyl Methacrylate	69	11.083	11.103	(1.268)	401910	50.0000	50.0	
$	45	1,2-Dichloroethane-D4	65	8.116	8.143	(1.004)	421391	50.0000	50.0	
	46	Tertiary-amyl methyl ether	73	8.130	8.150	(1.006)	829126	50.0000	50.0	
	47	1,2-Dichloroethane	62	8.202	8.228	(0.939)	506546	50.0000	50.0	
	48	Trichloroethene	95	8.695	8.715	(0.995)	353381	50.0000	50.0	
*	49	1,4-Difluorobenzene	114	8.738	8.757	(1.000)	1033687	50.0000		
	50	Dibromomethane	93	9.189	9.208	(1.052)	207081	50.0000	50.0	
	51	1,2-Dichloropropane	63	9.310	9.329	(1.065)	362966	50.0000	50.0	
	52	Bromodichloromethane	83	9.389	9.415	(1.074)	470664	50.0000	50.0	
	53	cis-1,3-dichloropropene	75	10.132	10.152	(1.160)	596810	50.0000	50.0	
	54	1,4-Dioxane	88	9.632	9.651	(1.102)	14096	1000.00	1000	
$	55	Toluene-D8	98	10.354	10.373	(1.185)	1261151	50.0000	50.0	
	56	2-Chloroethylvinylether	63	10.068	10.087	(1.152)	89169	50.0000	50.0	
	57	Toluene	92	10.411	10.431	(1.191)	894438	50.0000	50.0	
	58	4-methyl-2-pentanone	43	10.847	10.867	(1.241)	1871279	250.000	250	
	59	Tetrachloroethene	164	10.862	10.881	(0.889)	280435	50.0000	50.0	
	60	trans-1,3-Dichloropropene	75	10.890	10.910	(1.246)	502536	50.0000	50.0	
	61	1,1,2-Trichloroethane	83	11.076	11.096	(1.268)	249523	50.0000	50.0	
	62	Dibromochloromethane	129	11.291	11.310	(0.924)	342889	50.0000	50.0	
	63	1,3-Dichloropropane	76	11.398	11.424	(0.933)	557235	50.0000	50.0	
	64	1,2-Dibromoethane	107	11.569	11.596	(1.324)	302186	50.0000	50.0	
	65	2-Hexanone	43	11.856	11.875	(0.970)	1238047	250.000	250	
*	66	Chlorobenzene-D5	117	12.220	12.240	(1.000)	946292	50.0000		
	67	Chlorobenzene	112	12.242	12.261	(1.002)	922863	50.0000	50.0	
	152	1-Chlorohexane	91	12.220	12.240	(1.000)	510050	50.0000	50.0	
	68	Ethylbenzene	106	12.277	12.304	(1.005)	521106	50.0000	50.0	
	69	1,1,1,2-Tetrachloroethane	131	12.320	12.340	(1.008)	327398	50.0000	50.0	
M	70	Xylenes (total)	106				1870812	150.000	150	
	71	m+p-Xylenes	106	12.470	12.490	(1.020)	1271815	100.000	100	
	72	o-Xylene	106	13.035	13.062	(1.067)	598997	50.0000	50.0	
	73	Styrene	104	13.107	13.126	(1.073)	1095182	50.0000	50.0	
	74	Bromoform	173	13.128	13.155	(1.074)	212824	50.0000	50.0	
	75	Isopropylbenzene	105	13.464	13.491	(0.867)	1499576	50.0000	50.0	
$	76	P-Bromofluorobenzene	95	13.858	13.877	(1.586)	513540	50.0000	50.0	

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D1995.D
Report Date: 30-Sep-2012 19:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
77	cis-1,4-Dichloro-2-Butene	53	13.943	13.970	(0.898)	149273	50.0000	50.0	
78	trans-1,4-Dichloro-2-Butene	53	14.401	14.427	(0.927)	142302	50.0000	50.0	
79	Bromobenzene	156	14.008	14.027	(0.902)	402186	50.0000	50.0	
80	N-Propylbenzene	91	14.058	14.077	(0.905)	1807330	50.0000	50.0	
81	1,1,2,2-Tetrachloroethane	83	14.144	14.163	(0.911)	389439	50.0000	50.0	
82	1,3,5-Trimethylbenzene	105	14.351	14.370	(0.924)	1333082	50.0000	50.0	
83	2-Chlorotoluene	91	14.279	14.299	(0.919)	1113473	50.0000	50.0	
84	1,2,3-Trichloropropane	75	14.337	14.363	(0.923)	322014	50.0000	50.0	
85	4-Chlorotoluene	91	14.523	14.542	(0.935)	1147257	50.0000	50.0	
86	tert-Butylbenzene	119	14.823	14.842	(0.954)	1252730	50.0000	50.0	
87	Pentachloroethane	117	14.837	14.864	(0.955)	278450	50.0000	50.0	
88	1,2,4-Trimethylbenzene	105	14.930	14.949	(0.961)	1333359	50.0000	50.0	
89	P-Isopropyltoluene	119	15.323	15.343	(0.987)	1327445	50.0000	50.0	
90	1,3-Dichlorobenzene	146	15.416	15.443	(0.993)	722565	50.0000	50.0	
* 91	1,4-Dichlorobenzene-D4	152	15.531	15.557	(1.000)	539546	50.0000		
92	1,4-Dichlorobenzene	146	15.559	15.579	(1.002)	805335	50.0000	50.0	
93	N-Butylbenzene	91	15.995	16.015	(1.030)	1296432	50.0000	50.0	
94	sec-Butylbenzene	105	15.095	15.114	(0.972)	1582450	50.0000	50.0	
95	1,2-Dichlorobenzene	146	16.224	16.251	(1.045)	696611	50.0000	50.0	
96	1,2-Dibromo-3-Chloropropane	75	17.561	17.581	(1.131)	62473	50.0000	50.0	
97	1,3,5-Trichlorobenzene	180	17.633	17.659	(1.135)	484583	50.0000	50.0	
98	Hexachlorobutadiene	225	18.741	18.760	(1.207)	174349	50.0000	50.0	
99	1,2,4-Trichlorobenzene	180	18.763	18.789	(1.208)	411874	50.0000	50.0	
100	1,2,3-Trimethylbenzene	105	15.609	15.629	(1.005)	1343661	50.0000	50.0	
101	Naphthalene	128	19.342	19.368	(1.245)	780805	50.0000	50.0	
102	1,2,3-Trichlorobenzene	180	19.678	19.704	(1.267)	337622	50.0000	50.0	
103	Methyl Acetate	43	5.041	5.068	(0.624)	251399	50.0000	50.0	
104	Methylcyclohexane	83	8.688	8.707	(1.075)	528312	50.0000	50.0	
M 153	Total Alkylbenzenes	100				9932828	50.0000	350	

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D1995.D
Date : 28-SEP-2012 10:11
Client ID:
Sample Info: WG114145-4,VSTD050D28A
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-d.i
Operator: REC
Column diameter: 0.18

\\target_server\gg\chem\gcms-d.i\D092812.b\D1995.D

Y (x10^6)

Min

-Dichlorodifluoromethane (2.096)
-Chloromethane (2.332)
-Vinyl Chloride (2.432)
-Bromomethane (2.825)
-Chloroethane (2.990)
-Trichlorofluoromethane (3.176)
-Diethyl Ether (3.583)
-1,1-Dichloroethene (3.855)+
-Iodomethane (4.048)
-Acrolein (4.334)
-Allyl Chloride (4.563)
-Methylene Chloride (4.734)+
-trans-1,2-Dichloroethene (5.013)+
-Methyl tert-butyl ether (5.214)
-Acetonitrile (5.571)
-Tertiary-butyl alcohol (5.864)+
-Chloroprene (5.993)+
-Ethyl tertiary-butyl ethe (6.422)+
-cis-1,2-Dichloroethene (6.808)
-2,2-Dichloropropane (6.958)
-Bromochloromethane (7.087)+
-Chloroform (7.194)
-Carbon Tetrachloride (7.394)+
-1,1-Dichloropropene (7.637)+
-Propionitrile (7.959)+
-Isobutyl Alcohol (8.202)+
-Trichloroethene (8.688)+
-Total Alkylbenzenes (9.000)
-Dibromomethane (9.189)
-1,2-Dichloropropane (9.311)
-Bromodichloromethane (9.396)
-Methyl Methacrylate (9.597)+
-2-Chloroethylvinylether (10.068)
-cis-1,3-dichloropropene (10.133)
-Toluene-D8 (10.354)
-Toluene (10.427)
-Ethyl Methacrylate (11.084)+
4-methyl-2-pentanone (10.848)+
-Dibromochloromethane (11.291)
-1,3-Dichloropropane (11.398)
-1,2-Dibromoethane (11.570)
-2-Hexanone (11.856)
-1,1,1,2-Tetrachloroethane (12.321)
Chlorobenzene-D5 (12.221)+
m+p-Xylenes (12.471)
-o-Xylene (13.036)
-Styrene (13.107)+
-Isopropylbenzene (13.465)
-Bromofluorobenzene (13.858)
-cis-1,4-Dichloro-2-Butene (14.008)
-n-Propylbenzene (14.058)
-1,1,2,2-Tetrachloroethane (14.114)
-2-Chlorotoluene (14.280)
-trans-1,4-Dichloro-2-Bute (14.344)+
-4-Chlorotoluene (14.523)
-tert-Butylbenzene (14.823)+
-1,2,4-Trimethylbenzene (14.931)
-sec-Butylbenzene (15.095)
-p-Isopropyltoluene (15.324)
-1,3-Dichlorobenzene (15.417)
-1,4-Dichlorobenzene-D4 (15.553)+
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (15.996)
-1,2-Dichlorobenzene (16.225)
-1,2-Dibromo-3-Chloropropa (17.562)
-1,2,3-Trichlorobenzene (17.633)
-Hexachlorobutadiene (18.763)+
-Naphthalene (19.342)
-1,2,3-Trichlorobenzene (19.678)
-Xylenes (total) (21.080)

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D1996.D
Report Date: 30-Sep-2012 19:37

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D092812.b\D1996.D
Lab Smp Id: VSTD200D28A
Inj Date : 28-SEP-2012 10:56
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114145-6,VSTD200D28A
Misc Info : SW846 8260B
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D092812.b\D826A10.m
Meth Date : 28-Sep-2012 01:38 djpaul Quant Type: ISTD
Cal Date : 28-SEP-2012 10:56 Cal File: D1996.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

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	2.092	2.108	(0.259)	1252713	200.000	195	
2	Chloromethane	50	2.328	2.344	(0.288)	2560803	200.000	216(A)	
3	Vinyl chloride	62	2.428	2.444	(0.300)	1716932	200.000	200	
4	Bromomethane	94	2.822	2.844	(0.349)	666995	200.000	201(A)	
5	Chloroethane	64	2.986	3.009	(0.369)	1030459	200.000	197	
6	Trichlorofluoromethane	101	3.179	3.195	(0.393)	2279808	200.000	203(A)	
7	Diethyl Ether	59	3.587	3.602	(0.444)	1318416	200.000	206(A)	
8	Tertiary-butyl alcohol	59	5.875	5.890	(0.727)	639249	1000.00	1060(A)	
9	1,1-Dichloroethene	96	3.859	3.874	(0.477)	1121366	200.000	203(A)	
10	Carbon Disulfide	76	3.894	3.917	(0.482)	4153806	200.000	201(A)	
11	Freon-113	151	3.930	3.945	(0.486)	815730	200.000	202(A)	
12	Iodomethane	142	4.052	4.074	(0.501)	653864	200.000	184	
13	Acrolein	56	4.338	4.360	(0.537)	656258	1000.00	1050(A)	
14	Methylene Chloride	84	4.731	4.761	(0.585)	1455114	200.000	199	
15	Acetone	43	4.809	4.832	(0.595)	1959204	1000.00	1040(A)	
16	Isobutyl Alcohol	43	8.270	8.286	(1.023)	647690	4000.00	4990(A)	
17	trans-1,2-Dichloroethene	96	5.017	5.039	(0.621)	1415800	200.000	205(A)	
18	Allyl Chloride	41	4.574	4.589	(0.566)	2213380	200.000	182	
19	Methyl tert-butyl ether	73	5.217	5.240	(0.645)	6922085	400.000	396	
20	Acetonitrile	39	5.575	5.597	(0.690)	349508	2000.00	2050(A)	
21	Di-isopropyl ether	45	5.875	5.890	(0.727)	6421054	200.000	206(A)	
22	Chloroprene	53	5.989	6.005	(0.741)	3188151	200.000	207(A)	
23	Propionitrile	54	7.984	7.992	(0.988)	1860247	2000.00	2060(A)	

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D1996.D
Report Date: 30-Sep-2012 19:37

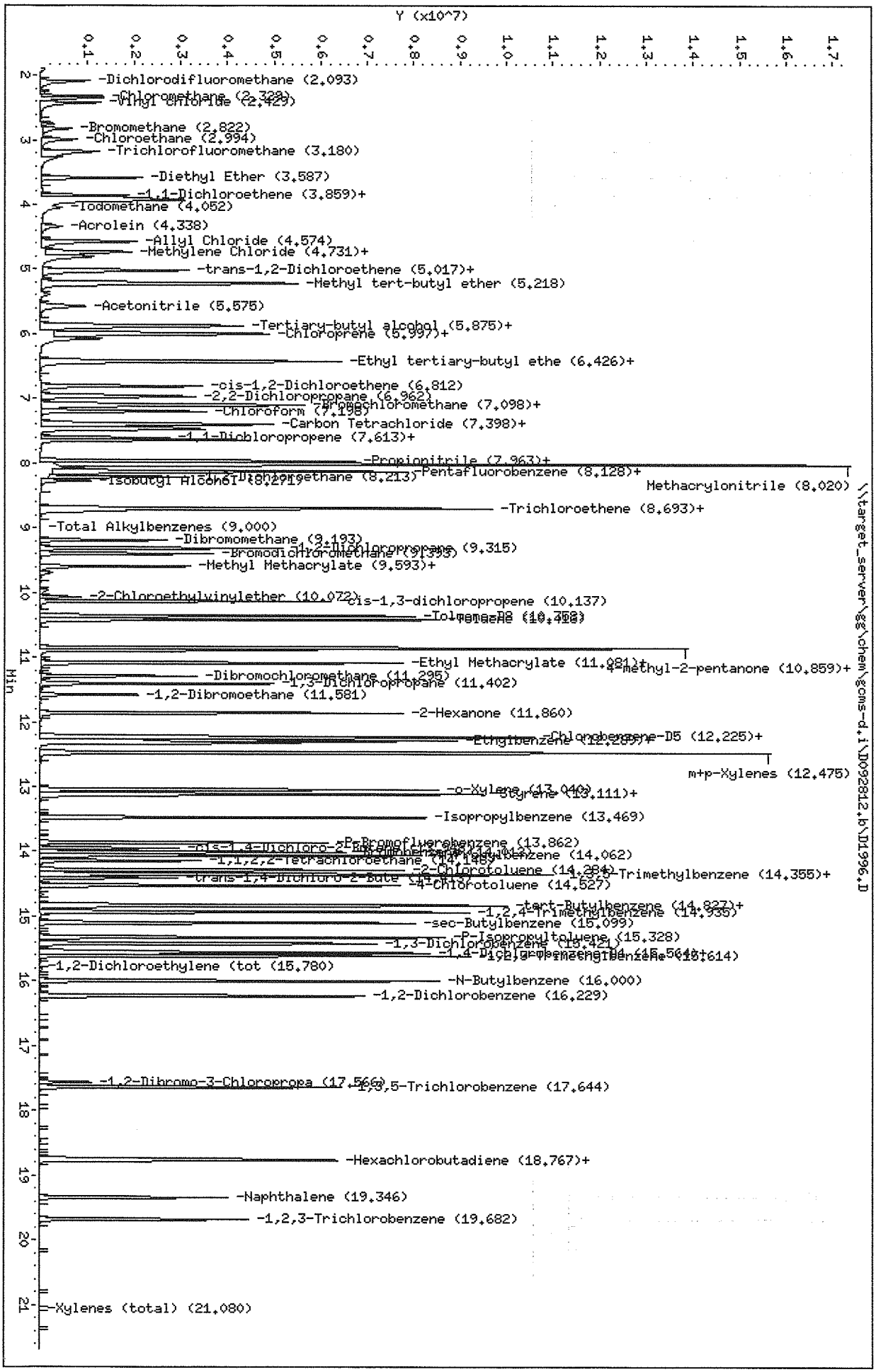
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	24 Methacrylonitrile	41	8.020	8.028	(0.992)	8624863	2000.00	1850	
	25 1,1-Dichloroethane	63	6.011	6.033	(0.744)	2805871	200.000	204(A)	
	26 Acrylonitrile	52	6.075	6.098	(0.751)	1227531	1000.00	1040(A)	
	27 Ethyl tertiary-butyl ether	59	6.425	6.441	(0.795)	4960154	200.000	209(A)	
	28 Vinyl Acetate	43	6.425	6.441	(0.735)	4360584	200.000	208(A)	
	29 cis-1,2-Dichloroethene	96	6.812	6.827	(0.843)	1536622	200.000	205(A)	
M	30 1,2-Dichloroethylene (total)	96				2952422	200.000	409	
	31 Methyl Methacrylate	41	9.593	9.615	(1.097)	1616092	200.000	201(A)	
	32 2,2-Dichloropropane	77	6.962	6.984	(0.861)	2150358	200.000	208(A)	
	33 Bromochloromethane	128	7.083	7.099	(0.876)	616753	200.000	194	
	34 Chloroform	83	7.198	7.220	(0.890)	2539229	200.000	202(A)	
	35 Carbon Tetrachloride	117	7.384	7.399	(0.845)	1871660	200.000	205(A)	
	36 Tetrahydrofuran	42	7.398	7.420	(0.915)	2212452	1000.00	1000	
$	37 Dibromofluoromethane	113	7.441	7.463	(0.920)	1357257	200.000	202(A)	
	38 1,1,1-Trichloroethane	97	7.476	7.492	(0.925)	2252118	200.000	202(A)	
	39 1,1-Dichloropropene	75	7.641	7.656	(0.874)	1966137	200.000	198	
	40 2-Butanone	43	7.605	7.628	(0.941)	3413549	1000.00	1000(A)	
	41 Benzene	78	7.963	7.978	(0.911)	5570038	200.000	198	
*	42 Pentafluorobenzene	168	8.084	8.100	(1.000)	665741	50.0000		
	43 Cyclohexane	56	7.105	7.120	(0.879)	2728044	200.000	200	
	44 Ethyl Methacrylate	69	11.087	11.103	(1.268)	1803389	200.000	200	
$	45 1,2-Dichloroethane-D4	65	8.127	8.143	(1.005)	1790890	200.000	202(A)	
	46 Tertiary-amyl methyl ether	73	8.134	8.150	(1.006)	3777281	200.000	209(A)	
	47 1,2-Dichloroethane	62	8.213	8.228	(0.939)	2221907	200.000	205(A)	
	48 Trichloroethene	95	8.699	8.715	(0.995)	1481129	200.000	200(A)	
*	49 1,4-Difluorobenzene	114	8.742	8.757	(1.000)	1076658	50.0000		
	50 Dibromomethane	93	9.193	9.208	(1.052)	906875	200.000	205(A)	
	51 1,2-Dichloropropane	63	9.314	9.329	(1.065)	1580677	200.000	204(A)	
	52 Bromodichloromethane	83	9.393	9.415	(1.074)	2070026	200.000	205(A)	
	53 cis-1,3-dichloropropene	75	10.136	10.152	(1.159)	2635820	200.000	206(A)	
	54 1,4-Dioxane	88	9.636	9.651	(1.102)	76262	4000.00	4520(A)	
$	55 Toluene-D8	98	10.358	10.373	(1.185)	4667622	200.000	188	
	56 2-Chloroethylvinylether	63	10.072	10.087	(1.152)	285234	200.000	174	
	57 Toluene	92	10.415	10.431	(1.191)	3653318	200.000	198	
	58 4-methyl-2-pentanone	43	10.851	10.867	(1.241)	6950205	1000.00	1000(A)	
	59 Tetrachloroethene	164	10.866	10.881	(0.889)	1110067	200.000	196	
	60 trans-1,3-Dichloropropene	75	10.894	10.910	(1.246)	2235282	200.000	206(A)	
	61 1,1,2-Trichloroethane	83	11.080	11.096	(1.267)	1060474	200.000	202(A)	
	62 Dibromochloromethane	129	11.295	11.310	(0.925)	1556190	200.000	210(A)	
	63 1,3-Dichloropropane	76	11.409	11.424	(0.934)	2366371	200.000	203(A)	
	64 1,2-Dibromoethane	107	11.581	11.596	(1.325)	1336440	200.000	206(A)	
	65 2-Hexanone	43	11.860	11.875	(0.971)	5061043	1000.00	1000	
*	66 Chlorobenzene-D5	117	12.217	12.240	(1.000)	971889	50.0000		
	67 Chlorobenzene	112	12.246	12.261	(1.002)	3634847	200.000	196	
	152 1-Chlorohexane	91	12.224	12.240	(1.001)	2054868	200.000	198	
	68 Ethylbenzene	106	12.289	12.304	(1.006)	2140401	200.000	200	
	69 1,1,1,2-Tetrachloroethane	131	12.324	12.340	(1.009)	1440854	200.000	207(A)	
M	70 Xylenes (total)	106				7414785	600.000	589	
	71 m+p-Xylenes	106	12.474	12.490	(1.021)	4908588	400.000	388	
	72 o-Xylene	106	13.039	13.062	(1.067)	2506197	200.000	202(A)	
	73 Styrene	104	13.111	13.126	(1.073)	4415260	200.000	198	
	74 Bromoform	173	13.132	13.155	(1.075)	1005207	200.000	201(A)	
	75 Isopropylbenzene	105	13.475	13.491	(0.867)	5683573	200.000	191	
$	76 P-Bromofluorobenzene	95	13.862	13.877	(1.586)	2104784	200.000	198	

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D1996.D
Report Date: 30-Sep-2012 19:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	77 cis-1,4-Dichloro-2-Butene	53	13.947	13.970	(0.898)	715353	200.000	214(A)	
	78 trans-1,4-Dichloro-2-Butene	53	14.412	14.427	(0.928)	677366	200.000	214(A)	
	79 Bromobenzene	156	14.012	14.027	(0.902)	1672589	200.000	200(A)	
	80 N-Propylbenzene	91	14.062	14.077	(0.905)	6620045	200.000	188	
	81 1,1,2,2-Tetrachloroethane	83	14.148	14.163	(0.911)	1673116	200.000	203(A)	
	82 1,3,5-Trimethylbenzene	105	14.355	14.370	(0.924)	5100295	200.000	192	
	83 2-Chlorotoluene	91	14.283	14.299	(0.919)	4437252	200.000	196	
	84 1,2,3-Trichloropropane	75	14.341	14.363	(0.923)	1332616	200.000	200	
	85 4-Chlorotoluene	91	14.527	14.542	(0.935)	4544502	200.000	195	
	86 tert-Butylbenzene	119	14.827	14.842	(0.954)	4981317	200.000	196	
	87 Pentachloroethane	117	14.841	14.864	(0.955)	1205758	200.000	204(A)	
	88 1,2,4-Trimethylbenzene	105	14.934	14.949	(0.961)	5219505	200.000	194	
	89 P-Isopropyltoluene	119	15.327	15.343	(0.987)	5138335	200.000	193	
	90 1,3-Dichlorobenzene	146	15.420	15.443	(0.993)	2949973	200.000	198	
*	91 1,4-Dichlorobenzene-D4	152	15.535	15.557	(1.000)	559917	50.0000		
	92 1,4-Dichlorobenzene	146	15.563	15.579	(1.002)	3208404	200.000	196	
	93 N-Butylbenzene	91	15.999	16.015	(1.030)	4980960	200.000	192	
	94 sec-Butylbenzene	105	15.099	15.114	(0.972)	5955721	200.000	190	
	95 1,2-Dichlorobenzene	146	16.228	16.251	(1.045)	2854560	200.000	199	
	96 1,2-Dibromo-3-Chloropropane	75	17.565	17.581	(1.131)	288463	200.000	200	
	97 1,3,5-Trichlorobenzene	180	17.644	17.659	(1.136)	2118828	200.000	205(A)	
	98 Hexachlorobutadiene	225	18.745	18.760	(1.207)	788305	200.000	200(A)	
	99 1,2,4-Trichlorobenzene	180	18.774	18.789	(1.208)	1778049	200.000	204(A)	
	100 1,2,3-Trimethylbenzene	105	15.613	15.629	(1.005)	5285535	200.000	195	
	101 Naphthalene	128	19.346	19.368	(1.245)	3335547	200.000	200(A)	
	102 1,2,3-Trichlorobenzene	180	19.689	19.704	(1.267)	1461527	200.000	204(A)	
	103 Methyl Acetate	43	5.045	5.068	(0.624)	1168839	200.000	212(A)	
	104 Methylcyclohexane	83	8.692	8.707	(1.075)	2232899	200.000	202(A)	
M	153 Total Alkylbenzenes	100				37996178	200.000	1340	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D1996.D
Date : 28-SEP-2012 10:56
Client ID:
Sample Info: WG114145-6,VSTD200D28A
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-d.i
Operator: REC
Column diameter: 0.18

\\target_server\gg\chem\gcms-d.i\D092812.b\D1996.D

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D1998.D
Report Date: 30-Sep-2012 19:37

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D092812.b\D1998.D
Lab Smp Id: VSTD020D28A
Inj Date : 28-SEP-2012 11:52
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114145-3,VSTD020D28A
Misc Info : SW846 8260B
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D092812.b\D826A10.m
Meth Date : 28-Sep-2012 01:38 djpaul Quant Type: ISTD
Cal Date : 28-SEP-2012 11:52 Cal File: D1998.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

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	2.093	2.108	(0.259)	127498	20.0000	20.9	
2	Chloromethane	50	2.329	2.344	(0.288)	224910	20.0000	18.9	
3	Vinyl chloride	62	2.429	2.444	(0.301)	177275	20.0000	19.7	
4	Bromomethane	94	2.822	2.844	(0.349)	52342	20.0000	18.6	
5	Chloroethane	64	2.986	3.009	(0.370)	105000	20.0000	18.0	
6	Trichlorofluoromethane	101	3.172	3.195	(0.393)	225015	20.0000	20.6	
7	Diethyl Ether	59	3.587	3.602	(0.444)	132278	20.0000	20.5	
8	Tertiary-butyl alcohol	59	5.868	5.890	(0.726)	60270	100.000	105	
9	1,1-Dichloroethene	96	3.852	3.874	(0.477)	113876	20.0000	19.7	
10	Carbon Disulfide	76	3.895	3.917	(0.482)	417268	20.0000	19.3	
11	Freon-113	151	3.923	3.945	(0.486)	91207	20.0000	22.2	
12	Iodomethane	142	4.052	4.074	(0.502)	67830	20.0000	22.1	
13	Acrolein	56	4.338	4.360	(0.537)	66995	100.000	104	
14	Methylene Chloride	84	4.731	4.761	(0.586)	154786	20.0000	23.9	
15	Acetone	43	4.810	4.832	(0.595)	209912	100.000	108	
16	Isobutyl Alcohol	43	8.270	8.286	(1.024)	99823	400.000	614	
17	trans-1,2-Dichloroethene	96	5.010	5.039	(0.620)	146269	20.0000	20.3	
18	Allyl Chloride	41	4.567	4.589	(0.565)	266342	20.0000	19.8	
19	Methyl tert-butyl ether	73	5.217	5.240	(0.646)	787640	40.0000	48.2	
20	Acetonitrile	39	5.568	5.597	(0.689)	42543	200.000	230	
21	Di-isopropyl ether	45	5.868	5.890	(0.726)	630233	20.0000	21.0	
22	Chloroprene	53	5.982	6.005	(0.741)	312147	20.0000	19.9	
23	Propionitrile	54	7.970	7.992	(0.987)	196361	200.000	223	

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D1998.D
Report Date: 30-Sep-2012 19:37

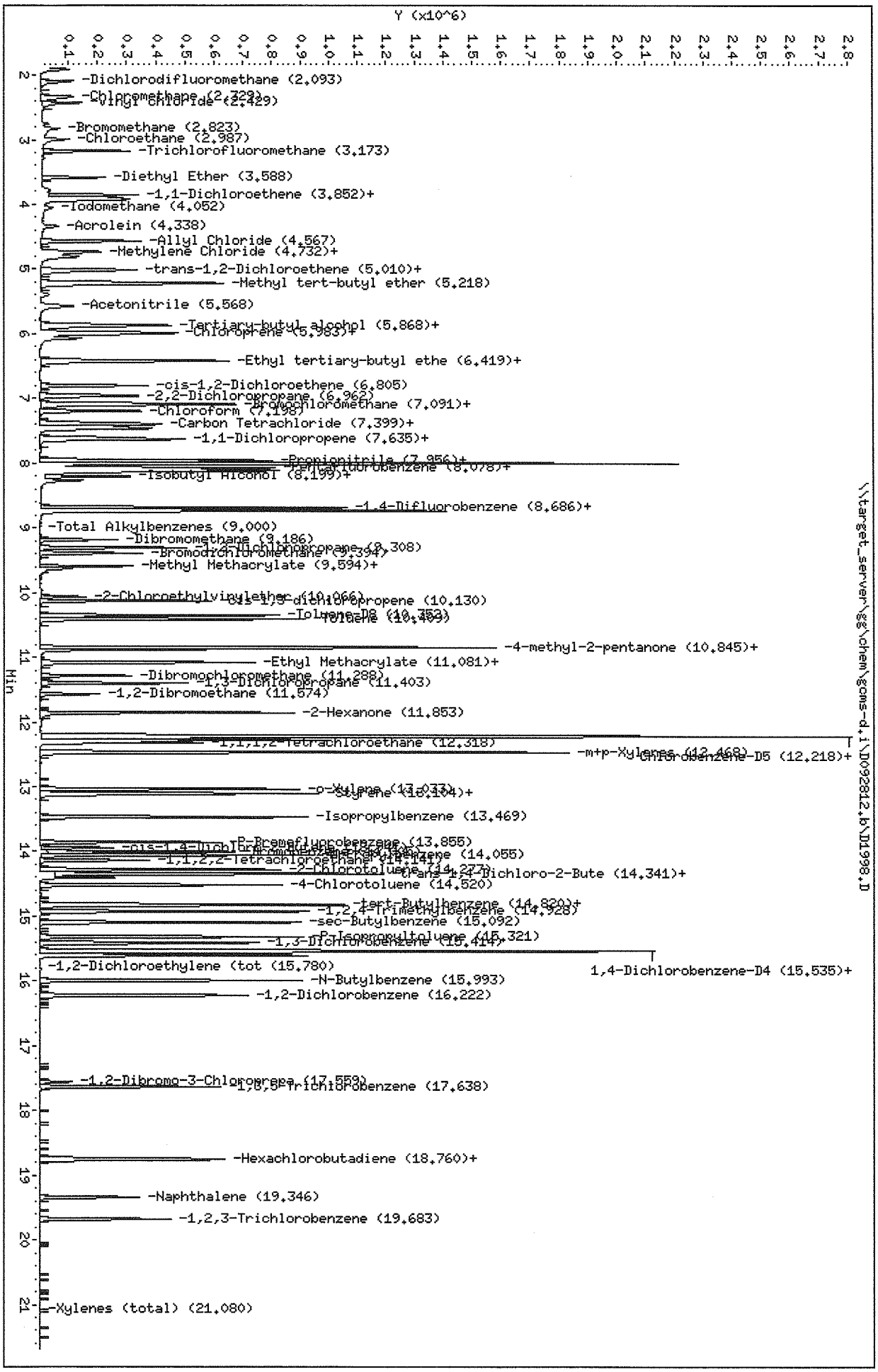
			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	24	Methacrylonitrile	41	8.006	8.028	(0.991)	1147819	200.000	230	
	25	1,1-Dichloroethane	63	6.004	6.033	(0.743)	280384	20.0000	20.2	
	26	Acrylonitrile	52	6.068	6.098	(0.751)	124083	100.000	113	
	27	Ethyl tertiary-butyl ether	59	6.419	6.441	(0.795)	485781	20.0000	21.7	
	28	Vinyl Acetate	43	6.419	6.441	(0.735)	429253	20.0000	22.5	
	29	cis-1,2-Dichloroethene	96	6.805	6.827	(0.842)	154322	20.0000	21.0	
M	30	1,2-Dichloroethylene (total)	96				300591	20.0000	41.3	
	31	Methyl Methacrylate	41	9.593	9.615	(1.098)	158362	20.0000	21.2	
	32	2,2-Dichloropropane	77	6.962	6.984	(0.862)	204243	20.0000	20.2	
	33	Bromochloromethane	128	7.076	7.099	(0.876)	67456	20.0000	21.4	
	34	Chloroform	83	7.198	7.220	(0.891)	257992	20.0000	20.8	
	35	Carbon Tetrachloride	117	7.377	7.399	(0.844)	185246	20.0000	21.0	
	36	Tetrahydrofuran	42	7.398	7.420	(0.916)	236249	100.000	111	
$	37	Dibromofluoromethane	113	7.434	7.463	(0.920)	130473	20.0000	19.8	
	38	1,1,1-Trichloroethane	97	7.470	7.492	(0.925)	227997	20.0000	20.4	
	39	1,1-Dichloropropene	75	7.634	7.656	(0.874)	207523	20.0000	20.4	
	40	2-Butanone	43	7.605	7.628	(0.942)	376418	100.000	113	
	41	Benzene	78	7.956	7.978	(0.911)	598668	20.0000	20.7	
*	42	Pentafluorobenzene	168	8.077	8.100	(1.000)	662520	50.0000		
	43	Cyclohexane	56	7.098	7.120	(0.879)	300477	20.0000	23.0	
	44	Ethyl Methacrylate	69	11.088	11.103	(1.269)	174751	20.0000	21.3	
$	45	1,2-Dichloroethane-D4	65	8.113	8.143	(1.004)	180861	20.0000	20.4	
	46	Tertiary-amyl methyl ether	73	8.127	8.150	(1.006)	362521	20.0000	21.5	
	47	1,2-Dichloroethane	62	8.206	8.228	(0.939)	228936	20.0000	21.6	
	48	Trichloroethene	95	8.692	8.715	(0.995)	152937	20.0000	19.8(H)	
*	49	1,4-Difluorobenzene	114	8.735	8.757	(1.000)	1060090	50.0000		
	50	Dibromomethane	93	9.186	9.208	(1.052)	90071	20.0000	21.5	
	51	1,2-Dichloropropane	63	9.307	9.329	(1.065)	154865	20.0000	20.5	
	52	Bromodichloromethane	83	9.393	9.415	(1.075)	194983	20.0000	21.5	
	53	cis-1,3-dichloropropene	75	10.129	10.152	(1.160)	248710	20.0000	21.6	
	54	1,4-Dioxane	88	9.629	9.651	(1.102)	64702	400.000	434	
$	55	Toluene-D8	98	10.351	10.373	(1.185)	504308	20.0000	19.6	
	56	2-Chloroethylvinylether	63	10.065	10.087	(1.152)	53170	20.0000	25.3	
	57	Toluene	92	10.408	10.431	(1.192)	384982	20.0000	20.6	
	58	4-methyl-2-pentanone	43	10.844	10.867	(1.241)	863530	100.000	108	
	59	Tetrachloroethene	164	10.859	10.881	(0.889)	122135	20.0000	20.3	
	60	trans-1,3-Dichloropropene	75	10.887	10.910	(1.246)	210119	20.0000	22.1	
	61	1,1,2-Trichloroethane	83	11.073	11.096	(1.268)	109069	20.0000	21.7	
	62	Dibromochloromethane	129	11.288	11.310	(0.924)	141695	20.0000	21.8	
	63	1,3-Dichloropropane	76	11.402	11.424	(0.933)	246150	20.0000	22.0	
	64	1,2-Dibromoethane	107	11.574	11.596	(1.325)	132243	20.0000	20.8	
	65	2-Hexanone	43	11.853	11.875	(0.970)	583743	100.000	112	
*	66	Chlorobenzene-D5	117	12.217	12.240	(1.000)	968727	50.0000		
	67	Chlorobenzene	112	12.239	12.261	(1.002)	398641	20.0000	20.8	
	152	1-Chlorohexane	91	12.217	12.240	(1.000)	225872	20.0000	20.0	
	68	Ethylbenzene	106	12.275	12.304	(1.005)	219772	20.0000	19.9	
	69	1,1,1,2-Tetrachloroethane	131	12.317	12.340	(1.008)	136561	20.0000	21.5	
M	70	Xylenes (total)	106				804176	60.0000	61.7	
	71	m+p-Xylenes	106	12.468	12.490	(1.020)	546591	40.0000	40.7	
	72	o-Xylene	106	13.032	13.062	(1.067)	257585	20.0000	21.0	
	73	Styrene	104	13.104	13.126	(1.073)	461433	20.0000	21.9	
	74	Bromoform	173	13.125	13.155	(1.074)	89280	20.0000	20.1	
	75	Isopropylbenzene	105	13.469	13.491	(0.867)	643265	20.0000	20.6	
$	76	P-Bromofluorobenzene	95	13.855	13.877	(1.586)	212226	20.0000	20.0	

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D1998.D
Report Date: 30-Sep-2012 19:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
77	cis-1,4-Dichloro-2-Butene	53	13.941	13.970	(0.897)	63855	20.0000	21.2	
78	trans-1,4-Dichloro-2-Butene	53	14.405	14.427	(0.927)	63816	20.0000	21.6	
79	Bromobenzene	156	14.005	14.027	(0.902)	171978	20.0000	21.2	
80	N-Propylbenzene	91	14.055	14.077	(0.905)	794329	20.0000	20.6	
81	1,1,2,2-Tetrachloroethane	83	14.141	14.163	(0.910)	181205	20.0000	21.9	
82	1,3,5-Trimethylbenzene	105	14.348	14.370	(0.924)	585817	20.0000	21.5	
83	2-Chlorotoluene	91	14.277	14.299	(0.919)	482280	20.0000	20.7	
84	1,2,3-Trichloropropane	75	14.334	14.363	(0.923)	148918	20.0000	22.1	
85	4-Chlorotoluene	91	14.520	14.542	(0.935)	497266	20.0000	20.7	
86	tert-Butylbenzene	119	14.820	14.842	(0.954)	537886	20.0000	21.0	
87	Pentachloroethane	117	14.834	14.864	(0.955)	111747	20.0000	20.2	
88	1,2,4-Trimethylbenzene	105	14.927	14.949	(0.961)	569191	20.0000	21.1	
89	P-Isopropyltoluene	119	15.320	15.343	(0.986)	573466	20.0000	21.0	
90	1,3-Dichlorobenzene	146	15.413	15.443	(0.992)	316901	20.0000	20.9	
* 91	1,4-Dichlorobenzene-D4	152	15.535	15.557	(1.000)	554357	50.0000		
92	1,4-Dichlorobenzene	146	15.556	15.579	(1.001)	347161	20.0000	20.6	
93	N-Butylbenzene	91	15.993	16.015	(1.029)	544536	20.0000	20.7	
94	sec-Butylbenzene	105	15.092	15.114	(0.971)	698266	20.0000	20.7	
95	1,2-Dichlorobenzene	146	16.229	16.251	(1.045)	302561	20.0000	21.2	
96	1,2-Dibromo-3-Chloropropane	75	17.558	17.581	(1.130)	26936	20.0000	21.2	
97	1,3,5-Trichlorobenzene	180	17.637	17.659	(1.135)	204998	20.0000	19.7	
98	Hexachlorobutadiene	225	18.738	18.760	(1.206)	79390	20.0000	20.8	
99	1,2,4-Trichlorobenzene	180	18.767	18.789	(1.208)	167660	20.0000	20.0	
100	1,2,3-Trimethylbenzene	105	15.606	15.629	(1.005)	567533	20.0000	20.5	
101	Naphthalene	128	19.346	19.368	(1.245)	295967	20.0000	19.0	
102	1,2,3-Trichlorobenzene	180	19.682	19.704	(1.267)	141328	20.0000	20.7	
103	Methyl Acetate	43	5.046	5.068	(0.625)	116497	20.0000	20.8	
104	Methylcyclohexane	83	8.685	8.707	(1.075)	254570	20.0000	23.3	
M 153	Total Alkylbenzenes	100				4303491	20.0000	147	

QC Flag Legend

H - Operator selected an alternate compound hit.


Y (x10^6)
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8
Min
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
-Dichlorodifluoromethane (2,093)
-Chloromethane (2,329)
-Vinyl Chloride (2,429)
-Bromomethane (2,823)
-Chloroethane (2,987)
-Trichlorofluoromethane (3,173)
-Diethyl Ether (3,588)
-1,1-Dichloroethene (3,852)+
-Iodomethane (4,052)
-Acrolein (4,338)
-Allyl Chloride (4,567)
-Methylene Chloride (4,732)+
-trans-1,2-Dichloroethene (5,010)+
-Methyl tert-butyl ether (5,218)
-Acetonitrile (5,568)
-Tertiary-butyl alcohol (5,868)+
-Chloroprene (5,983)+
-Ethyl tertiary-butyl ethe (6,419)+
-cis-1,2-Dichloroethene (6,805)
-2,2-Dichloropropane (6,962)
-Bromochloromethane (7,091)+
-Chloroform (7,198)
-Carbon Tetrachloride (7,399)+
-1,1-Dichloropropene (7,635)+
-Propionitrile (7,956)+
-Isobutyl Alcohol (8,199)+
-1,4-Difluorobenzene (8,686)+
-Total Alkylbenzenes (9,000)
-Dibromomethane (9,186)
-Bromodichloromethane (9,394)
-Methyl Methacrylate (9,594)+
-2-Chloroethylvinylether (10,066)
-Toluene-D8 (10,353)
-4-methyl-2-pentanone (10,845)+
-Ethyl Methacrylate (11,081)+
-Dibromochloromethane (11,288)
-1,2-Dibromoethane (11,574)
-2-Hexanone (11,853)
-1,1,1,2-Tetrachloroethane (12,318)
-m+p-Xylenes (12,468)
Chlorobenzene-D5 (12,218)+
-o-Xylene (13,037)
-Isopropylbenzene (13,469)
-Bromofluorobenzene (13,855)
-1,1,2,2-Tetrachloroethane (14,055)
-2-Chlorotoluene (14,227)
-4-Chlorotoluene (14,520)
-tert-Butylbenzene (14,820)+
-1,2,4-Trimethylbenzene (14,928)
-sec-Butylbenzene (15,092)
-1,3-Dichlorobenzene (15,414)
-1,2-Dichloroethylene (tot (15,780)
1,4-Dichlorobenzene-D4 (15,535)+
-N-Butylbenzene (15,993)
-1,2-Dichlorobenzene (16,222)
-1,2,3-Trichlorobenzene (17,638)
-Hexachlorobutadiene (18,760)+
-Naphthalene (19,346)
-1,2,3-Trichlorobenzene (19,683)
-Xylenes (total) (21,080)
Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D1998.D
Date : 28-SEP-2012 11:52
Client ID:
Sample Info: WG114145-3,VSTD020D28A
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-d.i\D092812.b\D1998.D

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D1999.D
Report Date: 30-Sep-2012 19:37

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D092812.b\D1999.D
Lab Smp Id: VSTD005D28A
Inj Date : 28-SEP-2012 12:20
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114145-2,VSTD005D28A
Misc Info : SW846 8260B
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D092812.b\D826A10.m
Meth Date : 28-Sep-2012 01:38 djpaul Quant Type: ISTD
Cal Date : 28-SEP-2012 12:20 Cal File: D1999.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

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	2.094	2.108	(0.259)	34543	5.00000	5.8	
2	Chloromethane	50	2.330	2.344	(0.288)	58162	5.00000	5.0	
3	Vinyl chloride	62	2.430	2.444	(0.301)	42919	5.00000	4.9	
4	Bromomethane	94	2.823	2.844	(0.350)	11400	5.00000	6.4	
5	Chloroethane	64	2.988	3.009	(0.370)	30168	5.00000	5.3	
6	Trichlorofluoromethane	101	3.174	3.195	(0.393)	57084	5.00000	5.4	
7	Diethyl Ether	59	3.581	3.602	(0.443)	32622	5.00000	5.2	
8	Tertiary-butyl alcohol	59	5.862	5.890	(0.726)	13551	25.0000	24.3	
9	1,1-Dichloroethene	96	3.853	3.874	(0.477)	26306	5.00000	4.7	
10	Carbon Disulfide	76	3.889	3.917	(0.481)	99970	5.00000	4.8	
11	Freon-113	151	3.924	3.945	(0.486)	22043	5.00000	5.5	
12	Iodomethane	142	4.053	4.074	(0.502)	8961	5.00000	3.0	
13	Acrolein	56	4.332	4.360	(0.536)	16128	25.0000	25.8	
14	Methylene Chloride	84	4.725	4.761	(0.585)	33815	5.00000	5.4	
15	Acetone	43	4.804	4.832	(0.595)	47338	25.0000	25.0	
16	Isobutyl Alcohol	43	8.265	8.286	(1.023)	20563	100.000	130	
17	trans-1,2-Dichloroethene	96	5.011	5.039	(0.620)	33931	5.00000	4.8	
18	Allyl Chloride	41	4.561	4.589	(0.565)	64759	5.00000	4.9	
19	Methyl tert-butyl ether	73	5.219	5.240	(0.646)	173576	10.0000	10.9	
20	Acetonitrile	39	5.569	5.597	(0.689)	10675	50.0000	59.2	
21	Di-isopropyl ether	45	5.869	5.890	(0.727)	140311	5.00000	4.8	
22	Chloroprene	53	5.977	6.005	(0.740)	71236	5.00000	4.7	
23	Propionitrile	54	7.971	7.992	(0.987)	44988	50.0000	52.4	

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D1999.D
Report Date: 30-Sep-2012 19:37

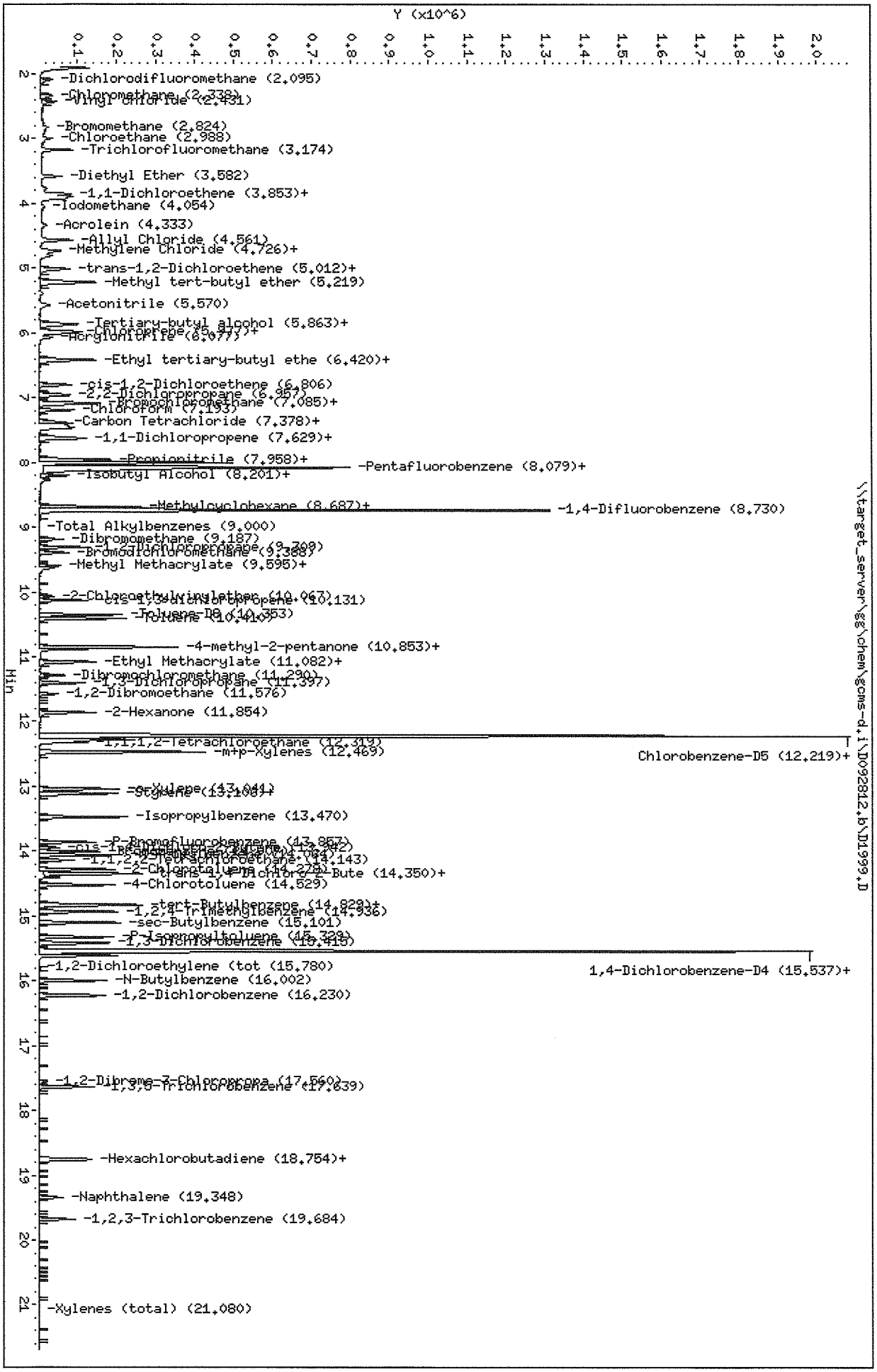
		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	24	Methacrylonitrile	41	8.000	8.028	(0.990)	263149	50.0000	54.1	
	25	1,1-Dichloroethane	63	6.005	6.033	(0.743)	67875	5.00000	5.0	
	26	Acrylonitrile	52	6.077	6.098	(0.752)	26009	25.0000	24.3	
	27	Ethyl tertiary-butyl ether	59	6.420	6.441	(0.795)	105733	5.00000	4.8	
	28	Vinyl Acetate	43	6.420	6.441	(0.735)	88924	5.00000	4.8	
	29	cis-1,2-Dichloroethene	96	6.806	6.827	(0.842)	34933	5.00000	4.9	
M	30	1,2-Dichloroethylene (total)	96				68864	5.00000	9.7	
	31	Methyl Methacrylate	41	9.595	9.615	(1.098)	28589	5.00000	5.0	
	32	2,2-Dichloropropane	77	6.956	6.984	(0.861)	45418	5.00000	4.6	
	33	Bromochloromethane	128	7.071	7.099	(0.875)	16361	5.00000	5.3	
	34	Chloroform	83	7.192	7.220	(0.890)	61089	5.00000	5.0	
	35	Carbon Tetrachloride	117	7.378	7.399	(0.845)	40008	5.00000	4.7	
	36	Tetrahydrofuran	42	7.399	7.420	(0.916)	49031	25.0000	22.9	
$	37	Dibromofluoromethane	113	7.435	7.463	(0.920)	31734	5.00000	5.0	
	38	1,1,1-Trichloroethane	97	7.464	7.492	(0.924)	52208	5.00000	4.8	
	39	1,1-Dichloropropene	75	7.635	7.656	(0.874)	48584	5.00000	4.9	
	40	2-Butanone	43	7.607	7.628	(0.942)	78222	25.0000	22.9	
	41	Benzene	78	7.950	7.978	(0.910)	141493	5.00000	5.0	
*	42	Pentafluorobenzene	168	8.079	8.100	(1.000)	645219	50.0000		
	43	Cyclohexane	56	7.092	7.120	(0.878)	65255	5.00000	5.1	
	44	Ethyl Methacrylate	69	11.089	11.103	(1.269)	32553	5.00000	4.3	
$	45	1,2-Dichloroethane-D4	65	8.114	8.143	(1.004)	43434	5.00000	5.0	
	46	Tertiary-amyl methyl ether	73	8.129	8.150	(1.006)	76769	5.00000	4.7	
	47	1,2-Dichloroethane	62	8.200	8.228	(0.939)	52138	5.00000	5.1	
	48	Trichloroethene	95	8.694	8.715	(0.995)	38453	5.00000	5.0(H)	
*	49	1,4-Difluorobenzene	114	8.737	8.757	(1.000)	1029299	50.0000		
	50	Dibromomethane	93	9.187	9.208	(1.052)	20179	5.00000	5.0	
	51	1,2-Dichloropropane	63	9.309	9.329	(1.065)	35058	5.00000	4.8	
	52	Bromodichloromethane	83	9.387	9.415	(1.074)	42435	5.00000	4.8	
	53	cis-1,3-dichloropropene	75	10.131	10.152	(1.160)	53416	5.00000	4.8	
	54	1,4-Dioxane	88	9.630	9.651	(1.102)	24044	100.000	166	
$	55	Toluene-D8	98	10.352	10.373	(1.185)	123852	5.00000	5.0	
	56	2-Chloroethylvinylether	63	10.066	10.087	(1.152)	12196	5.00000	6.0	
	57	Toluene	92	10.410	10.431	(1.191)	90616	5.00000	5.0	
	58	4-methyl-2-pentanone	43	10.846	10.867	(1.241)	175112	25.0000	22.4	
	59	Tetrachloroethene	164	10.860	10.881	(0.889)	27852	5.00000	4.7	
	60	trans-1,3-Dichloropropene	75	10.889	10.910	(1.246)	43764	5.00000	4.7	
	61	1,1,2-Trichloroethane	83	11.075	11.096	(1.268)	25194	5.00000	5.2	
	62	Dibromochloromethane	129	11.289	11.310	(0.924)	29754	5.00000	4.6	
	63	1,3-Dichloropropane	76	11.404	11.424	(0.933)	55877	5.00000	5.1	
	64	1,2-Dibromoethane	107	11.575	11.596	(1.325)	29023	5.00000	4.7	
	65	2-Hexanone	43	11.854	11.875	(0.970)	115875	25.0000	22.2	
*	66	Chlorobenzene-D5	117	12.219	12.240	(1.000)	953073	50.0000		
	67	Chlorobenzene	112	12.240	12.261	(1.002)	95915	5.00000	5.1	
	152	1-Chlorohexane	91	12.219	12.240	(1.000)	54126	5.00000	4.9	
	68	Ethylbenzene	106	12.283	12.304	(1.005)	55162	5.00000	5.1	
	69	1,1,1,2-Tetrachloroethane	131	12.319	12.340	(1.008)	29437	5.00000	4.7	
M	70	Xylenes (total)	106				196518	15.0000	15.3	
	71	m+p-Xylenes	106	12.469	12.490	(1.020)	134057	10.0000	10.2	
	72	o-Xylene	106	13.041	13.062	(1.067)	62461	5.00000	5.2	
	73	Styrene	104	13.105	13.126	(1.073)	104396	5.00000	5.0	
	74	Bromoform	173	13.127	13.155	(1.074)	17441	5.00000	5.9	
	75	Isopropylbenzene	105	13.470	13.491	(0.867)	153559	5.00000	5.1	
$	76	P-Bromofluorobenzene	95	13.856	13.877	(1.586)	51141	5.00000	5.0	

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D1999.D
Report Date: 30-Sep-2012 19:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	77 cis-1,4-Dichloro-2-Butene	53	13.949	13.970	(0.898)	13069	5.00000	4.5	
	78 trans-1,4-Dichloro-2-Butene	53	14.399	14.427	(0.927)	13153	5.00000	4.6	
	79 Bromobenzene	156	14.006	14.027	(0.902)	39186	5.00000	5.0	
	80 N-Propylbenzene	91	14.063	14.077	(0.905)	190205	5.00000	5.1	
	81 1,1,2,2-Tetrachloroethane	83	14.142	14.163	(0.910)	41238	5.00000	5.1	
	82 1,3,5-Trimethylbenzene	105	14.349	14.370	(0.924)	134996	5.00000	5.1	
	83 2-Chlorotoluene	91	14.278	14.299	(0.919)	117204	5.00000	5.2	
	84 1,2,3-Trichloropropane	75	14.335	14.363	(0.923)	34377	5.00000	5.3	
	85 4-Chlorotoluene	91	14.528	14.542	(0.935)	119666	5.00000	5.1	
	86 tert-Butylbenzene	119	14.828	14.842	(0.954)	122303	5.00000	4.9	
	87 Pentachloroethane	117	14.843	14.864	(0.955)	26350	5.00000	4.9	
	88 1,2,4-Trimethylbenzene	105	14.936	14.949	(0.961)	129167	5.00000	5.0	
	89 P-Isopropyltoluene	119	15.329	15.343	(0.987)	126581	5.00000	4.8	
	90 1,3-Dichlorobenzene	146	15.422	15.443	(0.993)	76806	5.00000	5.2	
*	91 1,4-Dichlorobenzene-D4	152	15.536	15.557	(1.000)	536871	50.0000		
	92 1,4-Dichlorobenzene	146	15.558	15.579	(1.001)	84300	5.00000	5.2	
	93 N-Butylbenzene	91	16.001	16.015	(1.030)	111072	5.00000	4.4	
	94 sec-Butylbenzene	105	15.100	15.114	(0.972)	162542	5.00000	5.0	
	95 1,2-Dichlorobenzene	146	16.230	16.251	(1.045)	71120	5.00000	5.2	
	96 1,2-Dibromo-3-Chloropropane	75	17.553	17.581	(1.130)	5383	5.00000	4.5	
	97 1,3,5-Trichlorobenzene	180	17.638	17.659	(1.135)	46201	5.00000	4.6	
	98 Hexachlorobutadiene	225	18.747	18.760	(1.207)	19736	5.00000	5.7	
	99 1,2,4-Trichlorobenzene	180	18.768	18.789	(1.208)	33313	5.00000	4.1	
	100 1,2,3-Trimethylbenzene	105	15.608	15.629	(1.005)	132833	5.00000	5.0	
	101 Naphthalene	128	19.347	19.368	(1.245)	53633	5.00000	4.4	
	102 1,2,3-Trichlorobenzene	180	19.683	19.704	(1.267)	28414	5.00000	4.3	
	103 Methyl Acetate	43	5.040	5.068	(0.624)	28048	5.00000	5.1	
	104 Methylcyclohexane	83	8.686	8.707	(1.075)	57547	5.00000	5.4	
M	153 Total Alkylbenzenes	100				976866	5.00000	34.2	

QC Flag Legend

H - Operator selected an alternate compound hit.



Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D1999.D
Date : 28-SEP-2012 12:20
Client ID:
Sample Info: WG114145-2,VSTD005D28A
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-d.i
Operator: REC
Column diameter: 0.18

\\target_server\gg\chem\gcms-d.i\D092812.b\D1999.D

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D2000.D
Report Date: 30-Sep-2012 19:37

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D092812.b\D2000.D
Lab Smp Id: VSTD001D28A
Inj Date : 28-SEP-2012 12:48 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114145-1,VSTD001D28A
Misc Info : SW846 8260B
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D092812.b\D826A10.m
Meth Date : 28-Sep-2012 01:38 djpaul Quant Type: ISTD
Cal Date : 28-SEP-2012 12:48 Cal File: D2000.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

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	2.094	2.108	(0.259)	3958	1.00000	0.69(a)	
2 Chloromethane	50	2.330	2.344	(0.288)	11921	1.00000	1.1	
3 Vinyl chloride	62	2.430	2.444	(0.301)	9492	1.00000	1.1	
4 Bromomethane	94	2.830	2.844	(0.350)	2243	1.00000	3.6	
5 Chloroethane	64	2.987	3.009	(0.370)	6792	1.00000	1.2	
6 Trichlorofluoromethane	101	3.173	3.195	(0.393)	8688	1.00000	0.85(a)	
7 Diethyl Ether	59	3.588	3.602	(0.444)	5758	1.00000	0.95(a)	
8 Tertiary-butyl alcohol	59	5.869	5.890	(0.727)	2334	5.00000	4.3(a)	
9 1,1-Dichloroethene	96	3.853	3.874	(0.477)	6452	1.00000	1.2	
10 Carbon Disulfide	76	3.888	3.917	(0.481)	23821	1.00000	1.2	
11 Freon-113	151	3.924	3.945	(0.486)	3204	1.00000	0.83(a)	
12 Iodomethane	142	4.046	4.074	(0.501)	1078	1.00000	0.43(aM)	M6
13 Acrolein	56	4.332	4.360	(0.536)	3014	5.00000	5.0	
14 Methylene Chloride	84	4.725	4.761	(0.585)	7340	1.00000	1.0(aM)	M9
15 Acetone	43	4.811	4.832	(0.596)	8999	5.00000	4.9(a)	
16 Isobutyl Alcohol	43	8.264	8.286	(1.023)	4051	20.0000	23.1(TM)	M9
17 trans-1,2-Dichloroethene	96	5.011	5.039	(0.620)	7513	1.00000	1.1	
18 Allyl Chloride	41	4.561	4.589	(0.565)	15519	1.00000	1.2	
19 Methyl tert-butyl ether	73	5.211	5.240	(0.645)	27757	2.00000	1.7(M)	M9
20 Acetonitrile	39	5.583	5.597	(0.691)	2505	10.0000	12.9(aM)	M9
21 Di-isopropyl ether	45	5.869	5.890	(0.727)	26352	1.00000	0.93(a)	
22 Chloroprene	53	5.983	6.005	(0.741)	16506	1.00000	1.1	
23 Propionitrile	54	7.971	7.992	(0.987)	6666	10.0000	8.0(a)	

OTP 092812

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D2000.D
Report Date: 30-Sep-2012 19:37

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	24	Methacrylonitrile	41	8.007	8.028	(0.991)	42667	10.0000	9.1(a)	
	25	1,1-Dichloroethane	63	6.005	6.033	(0.743)	13220	1.00000	1.0	
	26	Acrylonitrile	52	6.069	6.098	(0.751)	3948	5.00000	3.8(a)	
	27	Ethyl tertiary-butyl ether	59	6.427	6.441	(0.796)	17578	1.00000	0.84(a)	
	28	Vinyl Acetate	43	6.420	6.441	(0.735)	13746	1.00000	0.75(a)	
	29	cis-1,2-Dichloroethene	96	6.806	6.827	(0.842)	6509	1.00000	0.94(a)	
M	30	1,2-Dichloroethylene (total)	96				14022	1.00000	2.0	
	31	Methyl Methacrylate	41	9.601	9.615	(1.099)	4787	1.00000	2.0	
	32	2,2-Dichloropropane	77	6.956	6.984	(0.861)	9879	1.00000	1.0	
	33	Bromochloromethane	128	7.077	7.099	(0.876)	2528	1.00000	0.86(a)	
	34	Chloroform	83	7.192	7.220	(0.890)	10928	1.00000	0.94(a)	
	35	Carbon Tetrachloride	117	7.378	7.399	(0.845)	8191	1.00000	0.97(a)	
	36	Tetrahydrofuran	42	7.413	7.420	(0.918)	6992	5.00000	2.4(a)	
$	37	Dibromofluoromethane	113	7.435	7.463	(0.920)	6111	1.00000	0.99(a)	
	38	1,1,1-Trichloroethane	97	7.463	7.492	(0.924)	10818	1.00000	1.0	
	39	1,1-Dichloropropene	75	7.628	7.656	(0.873)	10601	1.00000	1.1	
	40	2-Butanone	43	7.614	7.628	(0.942)	11669	5.00000	2.3(a)	
	41	Benzene	78	7.950	7.978	(0.910)	28537	1.00000	1.0	
*	42	Pentafluorobenzene	168	8.078	8.100	(1.000)	621610	50.0000		
	43	Cyclohexane	56	7.092	7.120	(0.878)	9027	1.00000	0.74(a)	
	44	Ethyl Methacrylate	69	11.089	11.103	(1.269)	4131	1.00000	0.74(a)	
$	45	1,2-Dichloroethane-D4	65	8.114	8.143	(1.004)	8247	1.00000	0.99(a)	
	46	Tertiary-amyl methyl ether	73	8.128	8.150	(1.006)	13760	1.00000	0.87(a)	
	47	1,2-Dichloroethane	62	8.200	8.228	(0.939)	9123	1.00000	0.90(a)	
	48	Trichloroethene	95	8.693	8.715	(0.995)	9436	1.00000	1.2	
*	49	1,4-Difluorobenzene	114	8.736	8.757	(1.000)	1016684	50.0000		
	50	Dibromomethane	93	9.187	9.208	(1.052)	3413	1.00000	0.85(a)	
	51	1,2-Dichloropropane	63	9.308	9.329	(1.065)	6189	1.00000	0.88(TaM)	M6
	52	Bromodichloromethane	83	9.394	9.415	(1.075)	6642	1.00000	0.76(a)	
	53	cis-1,3-dichloropropene	75	10.130	10.152	(1.160)	8422	1.00000	0.76(a)	
	54	1,4-Dioxane	88	9.637	9.651	(1.103)	5809	20.0000	40.6	
$	55	Toluene-D8	98	10.352	10.373	(1.185)	27876	1.00000	1.1	
	56	2-Chloroethylvinylether	63	10.066	10.087	(1.152)	1523	1.00000	0.79(aM)	M6
	57	Toluene	92	10.409	10.431	(1.192)	18291	1.00000	1.0	
	58	4-methyl-2-pentanone	43	10.853	10.867	(1.242)	20831	5.00000	3.1(a)	
	59	Tetrachloroethene	164	10.860	10.881	(0.889)	6701	1.00000	1.2	
	60	trans-1,3-Dichloropropene	75	10.888	10.910	(1.246)	6456	1.00000	0.71(a)	
	61	1,1,2-Trichloroethane	83	11.074	11.096	(1.268)	3975	1.00000	0.82(a)	
	62	Dibromochloromethane	129	11.289	11.310	(0.924)	4330	1.00000	0.70(a)	
	63	1,3-Dichloropropane	76	11.403	11.424	(0.933)	8528	1.00000	0.80(a)	
	64	1,2-Dibromoethane	107	11.575	11.596	(1.325)	4884	1.00000	0.84(aM)	M6
	65	2-Hexanone	43	11.861	11.875	(0.971)	12872	5.00000	2.2(a)	
*	66	Chlorobenzene-D5	117	12.218	12.240	(1.000)	923457	50.0000		
	67	Chlorobenzene	112	12.240	12.261	(1.002)	18627	1.00000	1.0	
	152	1-Chlorohexane	91	12.218	12.240	(1.000)	12900	1.00000	1.2	
	68	Ethylbenzene	106	12.283	12.304	(1.005)	11075	1.00000	1.0	
	69	1,1,1,2-Tetrachloroethane	131	12.318	12.340	(1.008)	4830	1.00000	0.80(a)	
M	70	Xylenes (total)	106				38369	5.00000	3.1	
	71	m+p-Xylenes	106	12.469	12.490	(1.020)	27783	2.00000	2.2	
	72	o-Xylene	106	13.033	13.062	(1.067)	10586	1.00000	0.90(a)	
	73	Styrene	104	13.112	13.126	(1.073)	15933	1.00000	0.79(a)	
	74	Bromoform	173	13.126	13.155	(1.074)	2537	1.00000	2.5(M)	M6
	75	Isopropylbenzene	105	13.470	13.491	(0.867)	31321	1.00000	1.1	
$	76	P-Bromofluorobenzene	95	13.856	13.877	(1.586)	10495	1.00000	1.0	

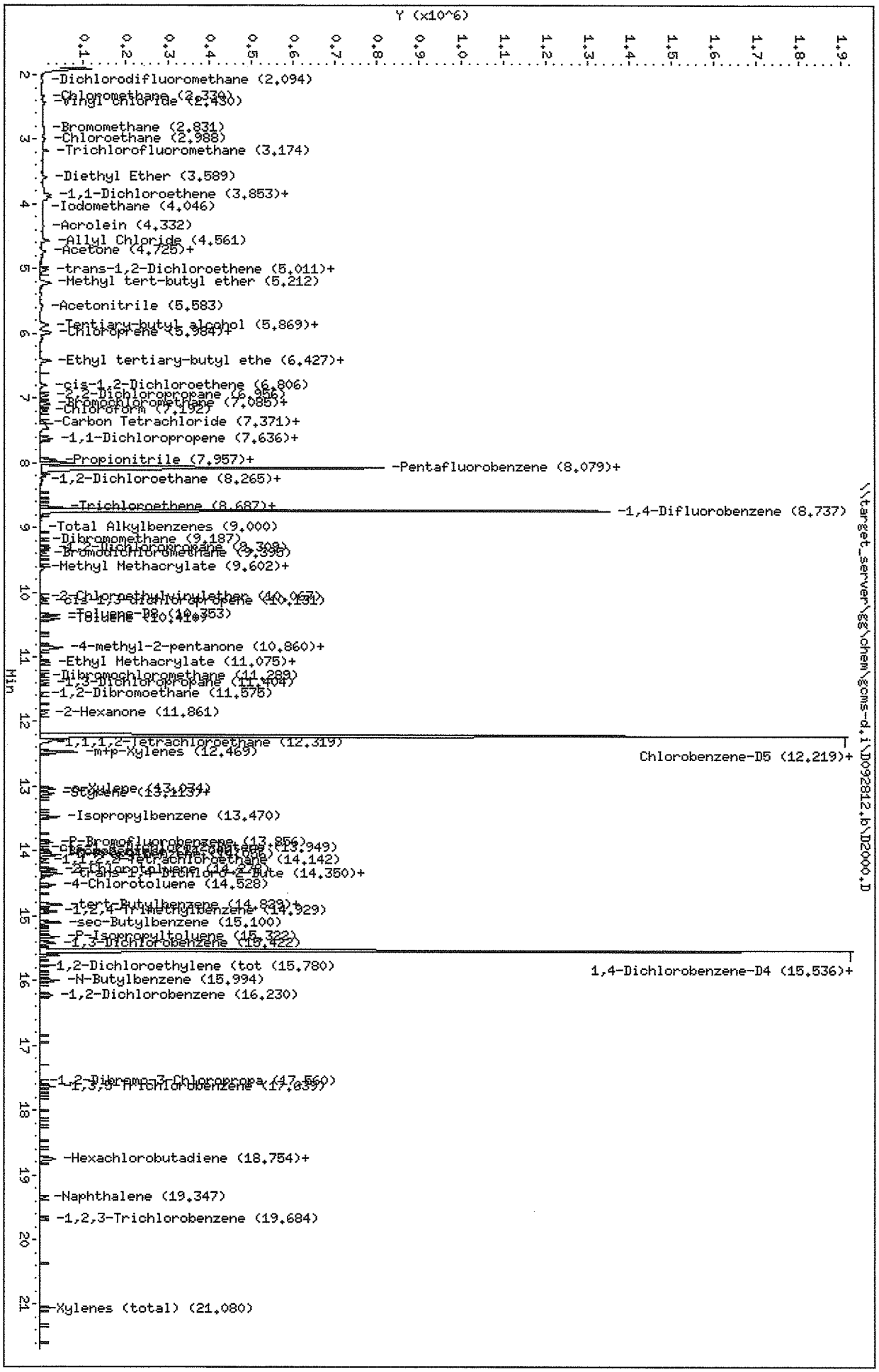
DJP 092812

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Report Date: 30-Sep-2012 19:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
77	cis-1,4-Dichloro-2-Butene	53	13.941	13.970	(0.897)	2407	1.00000	0.84(a)	
78	trans-1,4-Dichloro-2-Butene	53	14.399	14.427	(0.927)	2415	1.00000	0.86(a)	
79	Bromobenzene	156	14.013	14.027	(0.902)	6998	1.00000	0.91(a)	
80	N-Propylbenzene	91	14.063	14.077	(0.905)	41335	1.00000	1.1	
81	1,1,2,2-Tetrachloroethane	83	14.142	14.163	(0.910)	7157	1.00000	0.91(a)	
82	1,3,5-Trimethylbenzene	105	14.349	14.370	(0.924)	25059	1.00000	0.97(a)	
83	2-Chlorotoluene	91	14.278	14.299	(0.919)	22301	1.00000	1.0	
84	1,2,3-Trichloropropane	75	14.335	14.363	(0.923)	5644	1.00000	0.88(a)	
85	4-Chlorotoluene	91	14.528	14.542	(0.935)	23221	1.00000	1.0	
86	tert-Butylbenzene	119	14.828	14.842	(0.954)	24115	1.00000	0.99(a)	
87	Pentachloroethane	117	14.835	14.864	(0.955)	4714	1.00000	0.90(a)	
88	1,2,4-Trimethylbenzene	105	14.935	14.949	(0.961)	24935	1.00000	0.98(a)	
89	P-Isopropyltoluene	119	15.321	15.343	(0.986)	27636	1.00000	1.1	
90	1,3-Dichlorobenzene	146	15.422	15.443	(0.993)	13815	1.00000	0.96(a)	
* 91	1,4-Dichlorobenzene-D4	152	15.536	15.557	(1.000)	525104	50.0000		
92	1,4-Dichlorobenzene	146	15.557	15.579	(1.001)	16092	1.00000	1.0	
93	N-Butylbenzene	91	15.994	16.015	(1.029)	28261	1.00000	1.1	
94	sec-Butylbenzene	105	15.100	15.114	(0.972)	36346	1.00000	1.1	
95	1,2-Dichlorobenzene	146	16.230	16.251	(1.045)	12306	1.00000	0.91(a)	
96	1,2-Dibromo-3-Chloropropane	75	17.559	17.581	(1.130)	651	1.00000	0.68(a)	
97	1,3,5-Trichlorobenzene	180	17.638	17.659	(1.135)	11259	1.00000	1.1	
98	Hexachlorobutadiene	225	18.754	18.760	(1.207)	5230	1.00000	1.9	
99	1,2,4-Trichlorobenzene	180	18.768	18.789	(1.208)	8794	1.00000	1.1	
100	1,2,3-Trimethylbenzene	105	15.607	15.629	(1.005)	27295	1.00000	1.0	
101	Naphthalene	128	19.347	19.368	(1.245)	10224	1.00000	1.8	
102	1,2,3-Trichlorobenzene	180	19.683	19.704	(1.267)	6702	1.00000	1.0	
103	Methyl Acetate	43	5.047	5.068	(0.625)	5097	1.00000	0.97(a)	
104	Methylcyclohexane	83	8.686	8.707	(1.075)	7601	1.00000	0.74(a)	
M 153	Total Alkylbenzenes	100				207687	1.00000	7.4	

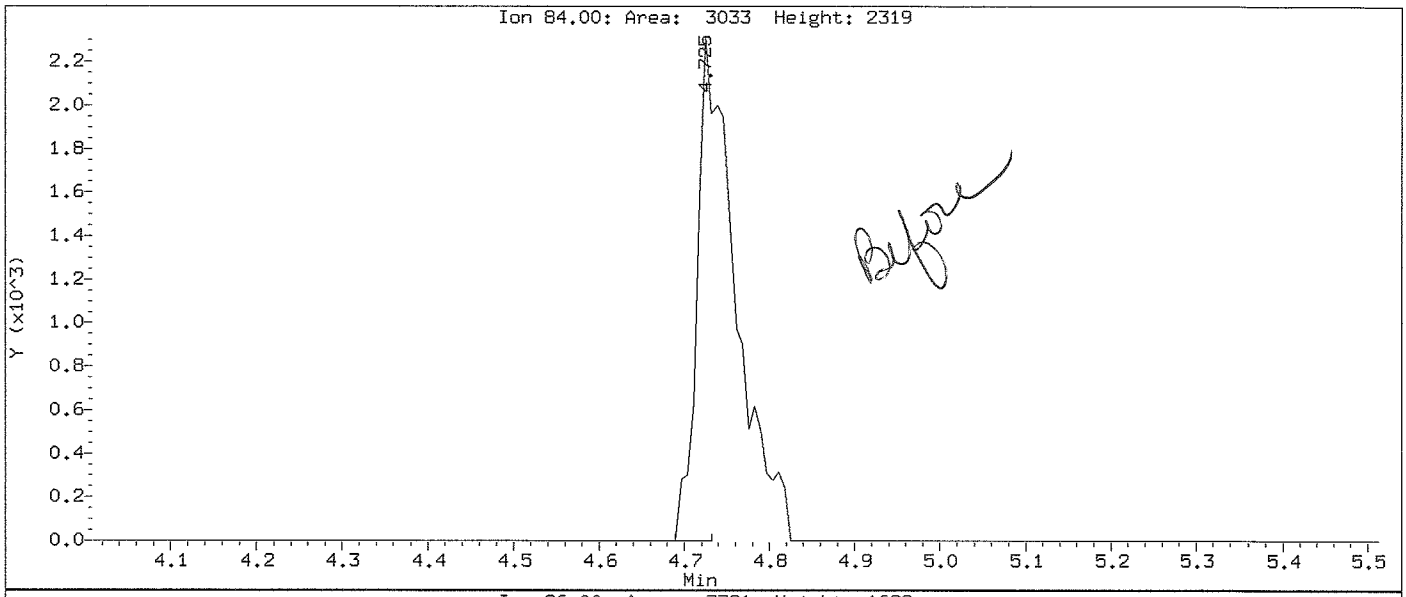
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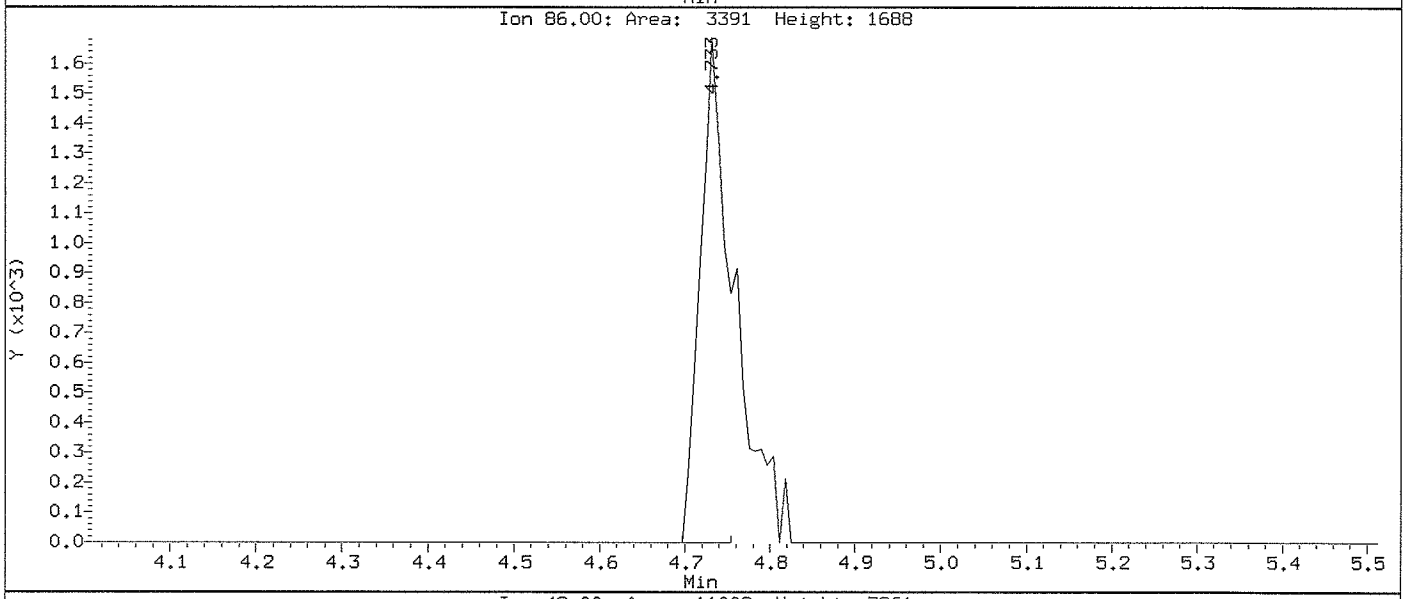
T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

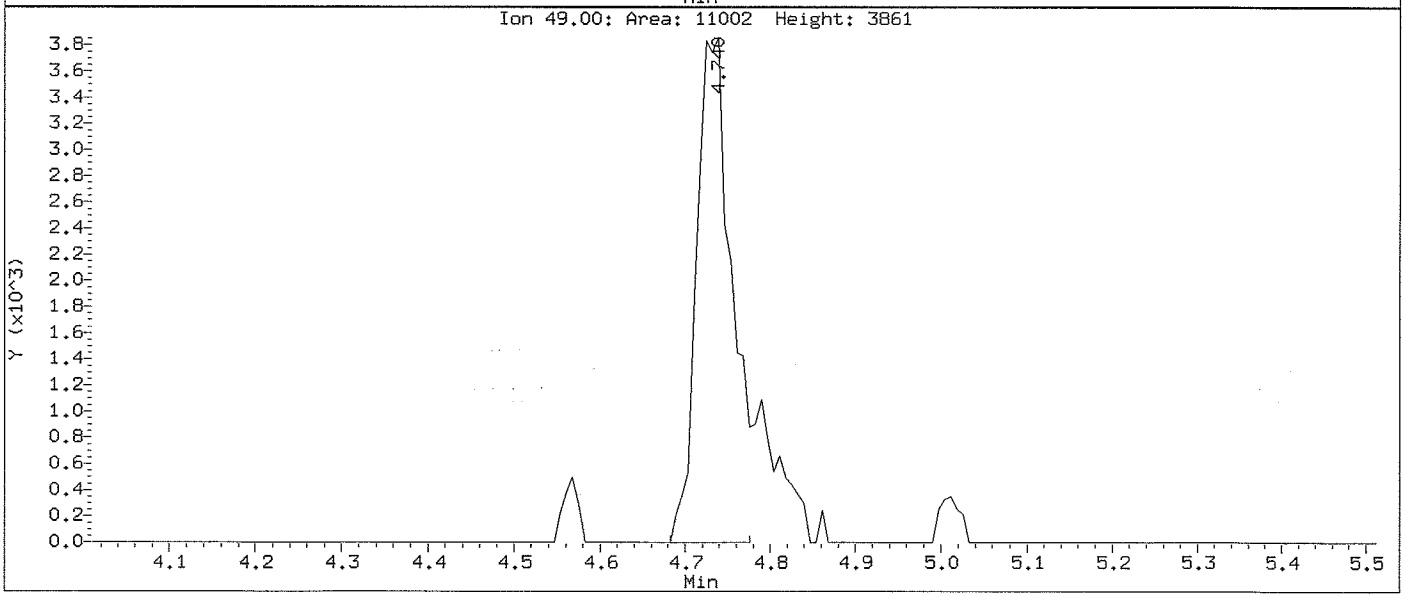

Y (x10^6)
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9
Min
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
-Dichlorodifluoromethane (2,094)
-Chloromethane (2,330)
-Vinyl chloride (2,430)
-Bromomethane (2,831)
-Chloroethane (2,988)
-Trichlorofluoromethane (3,174)
-Diethyl Ether (3,589)
-1,1-Dichloroethene (3,853)+
-Iodomethane (4,046)
-Acrolein (4,332)
-Allyl Chloride (4,561)
-Acetone (4,725)+
-trans-1,2-Dichloroethene (5,011)+
-Methyl tert-butyl ether (5,212)
-Acetonitrile (5,583)
-Tertiary-butyl alcohol (5,869)+
-Chloroprene (5,984)+
-Ethyl tertiary-butyl ethe (6,427)+
-cis-1,2-Dichloroethene (6,806)
-2,2-Dichloropropane (6,956)
-Bromochloromethane (7,085)+
-Chloroform (7,192)
-Carbon Tetrachloride (7,371)+
-1,1-Dichloropropene (7,636)+
-Propionitrile (7,957)+
-Pentafluorobenzene (8,079)+
-1,2-Dichloroethane (8,265)+
-Trichloroethene (8,687)+
-1,4-Difluorobenzene (8,737)
-Total Alkylbenzenes (9,000)
-Dibromomethane (9,187)
-1,2-Dichloropropane (9,309)
-Bromodichloromethane (9,395)
-Methyl Methacrylate (9,602)+
-2-Chloroethylvinylether (10,067)
-cis-1,3-Dichloropropene (10,131)
=Toluene-D8 (10,353)
=Toluene (10,416)
-4-methyl-2-pentanone (10,860)+
-Ethyl Methacrylate (11,075)+
-Dibromochloromethane (11,289)
-1,3-Dichloropropane (11,404)
-1,2-Dibromoethane (11,575)
-2-Hexanone (11,861)
-1,1,1,2-Tetrachloroethane (12,319)
-m+p-Xylenes (12,469)
Chlorobenzene-D5 (12,219)+
=Xylene (13,074)
-Styrene (13,113)+
-Isopropylbenzene (13,470)
-P-Bromofluorobenzene (13,856)
-Bromoform (13,949)
-1,1,2,2-Tetrachloroethane (14,142)
-2-Chlorotoluene (14,276)
-trans-1,4-Dichloro-2-Bute (14,350)+
-4-Chlorotoluene (14,528)
-tert-Butylbenzene (14,829)+
-1,2,4-Trimethylbenzene (14,929)
-sec-Butylbenzene (15,100)
-P-Isopropyltoluene (15,322)
-1,3-Dichlorobenzene (15,422)
-1,2-Dichloroethylene (tot (15,780)
1,4-Dichlorobenzene-D4 (15,536)+
-N-Butylbenzene (15,994)
-1,2-Dichlorobenzene (16,230)
-1,2-Dibromo-3-Chloroprop (17,560)
-1,3,5-Trichlorobenzene (17,639)
-Hexachlorobutadiene (18,754)+
-Naphthalene (19,347)
-1,2,3-Trichlorobenzene (19,684)
-Xylenes (total) (21,080)
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Client ID:
Sample Info: WG114145-1,VSTD001D28A
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: REC
Column diameter: 0.18

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D2000.D
Injection Date: 28-SEP-2012 12:48
Instrument: gcms-d.i
Client Sample ID:

Compound: Methylene Chloride
CAS Number: 75-09-2

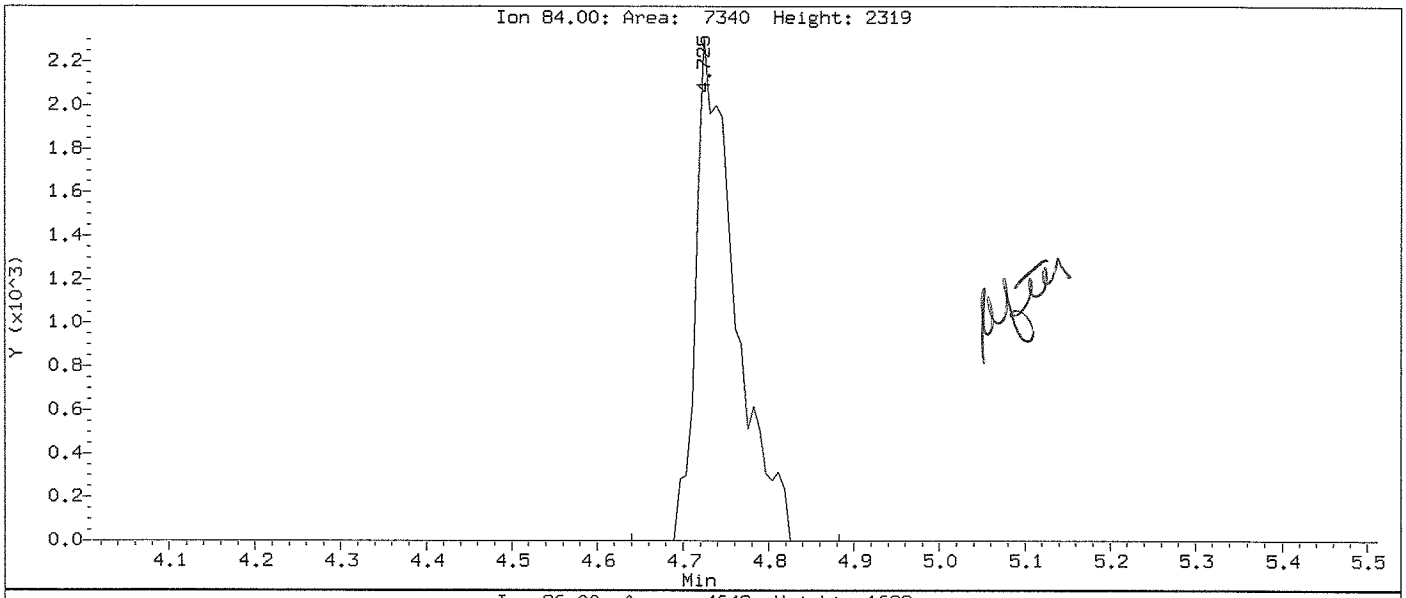


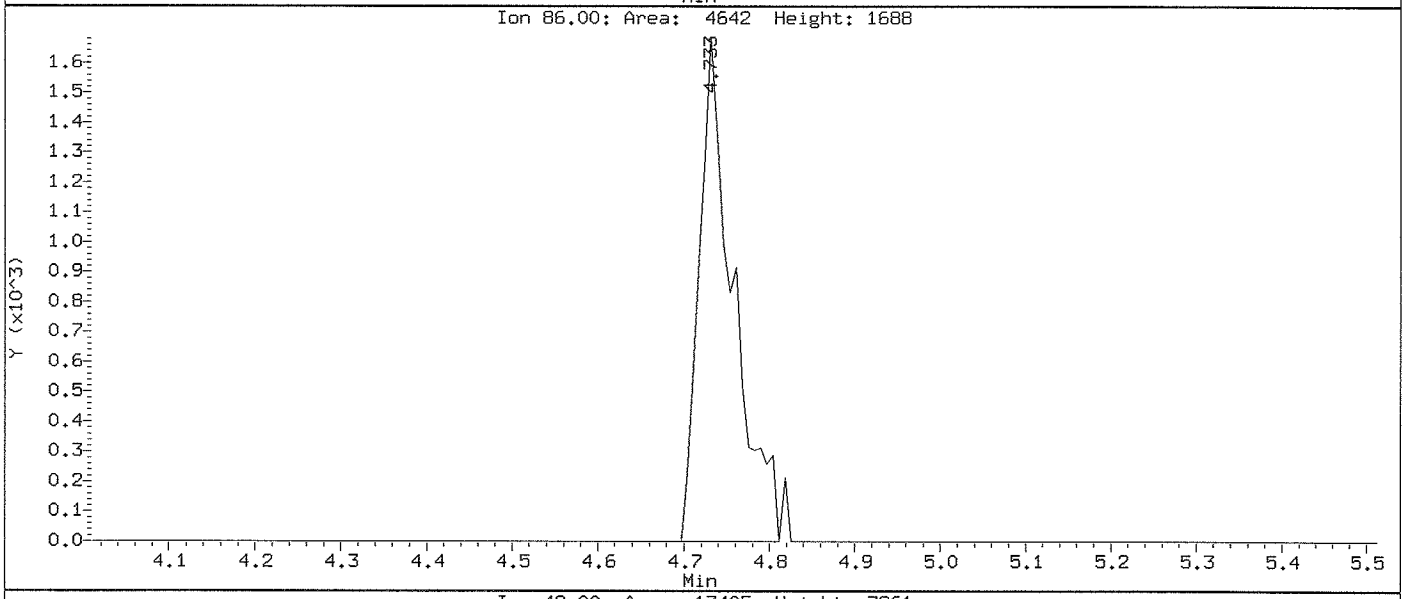


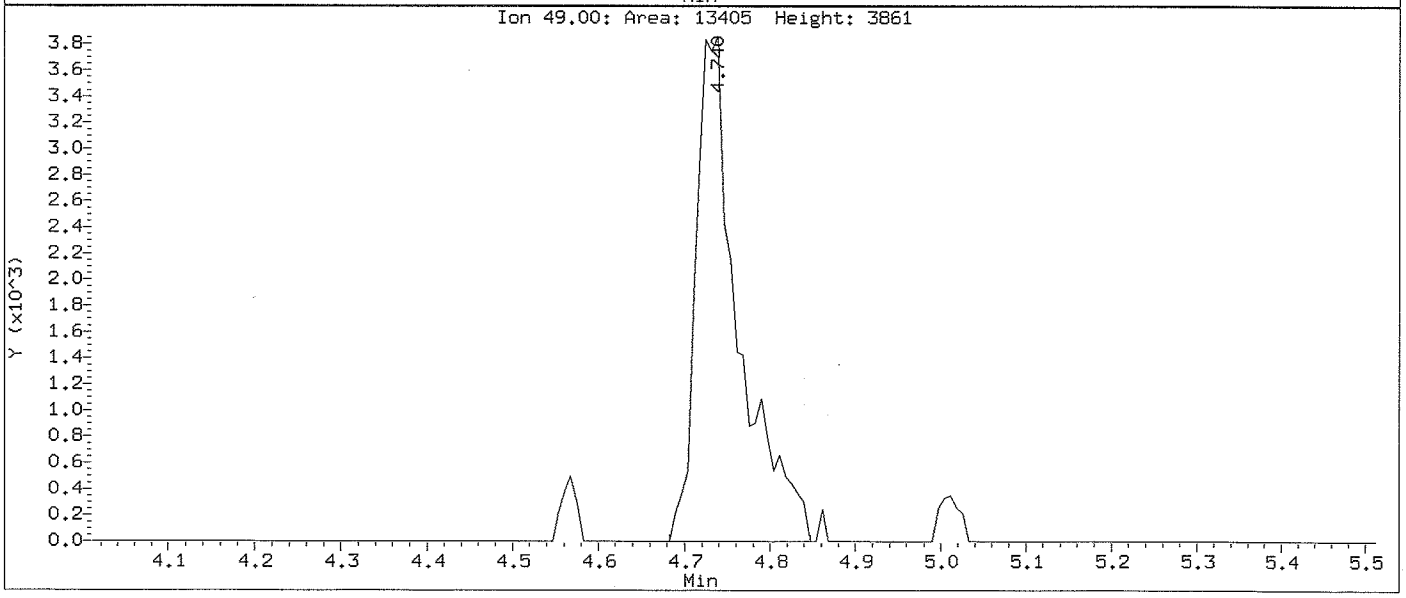


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Client Sample ID:

Compound: Methylene Chloride
CAS Number: 75-09-2

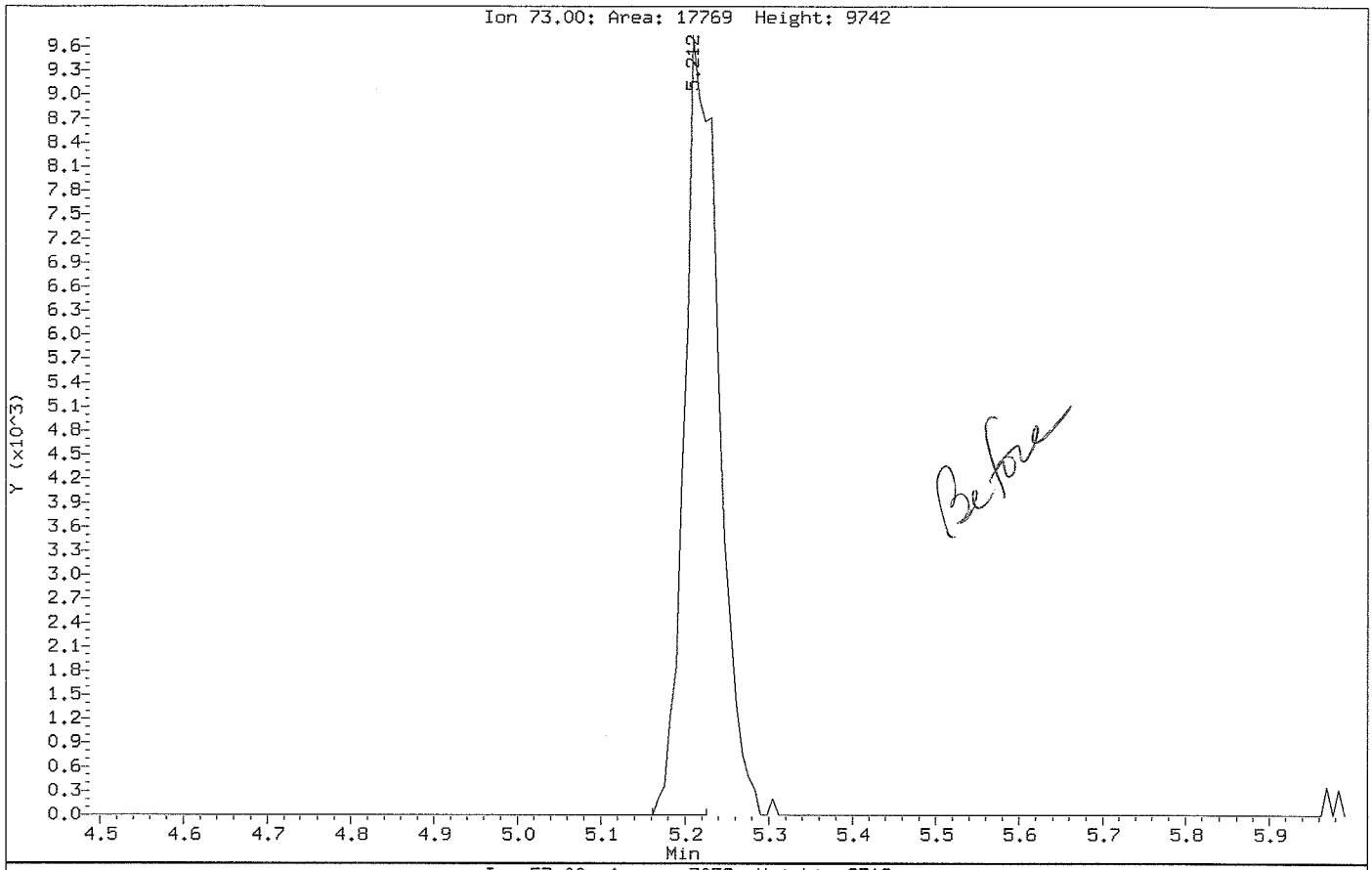


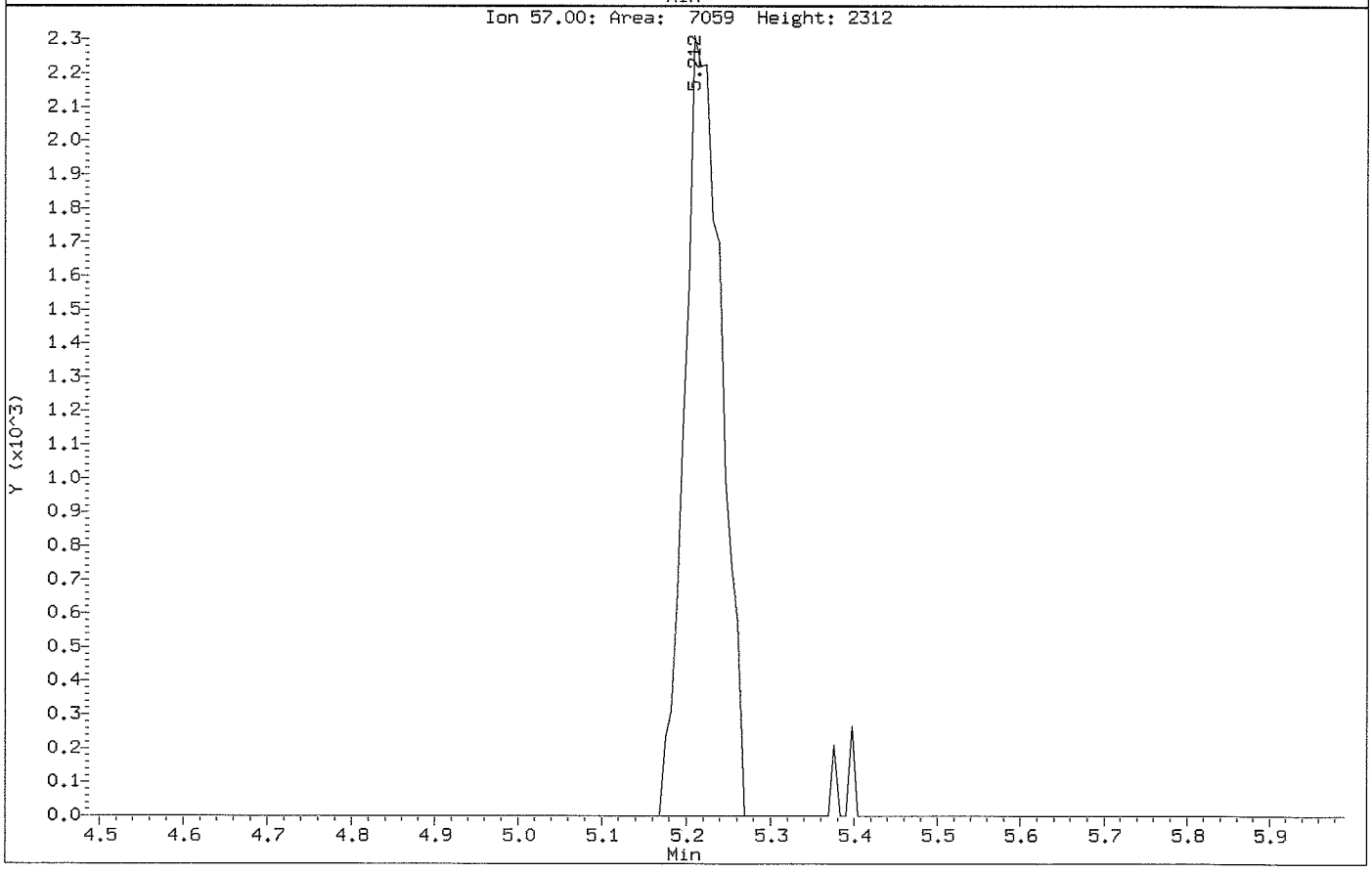




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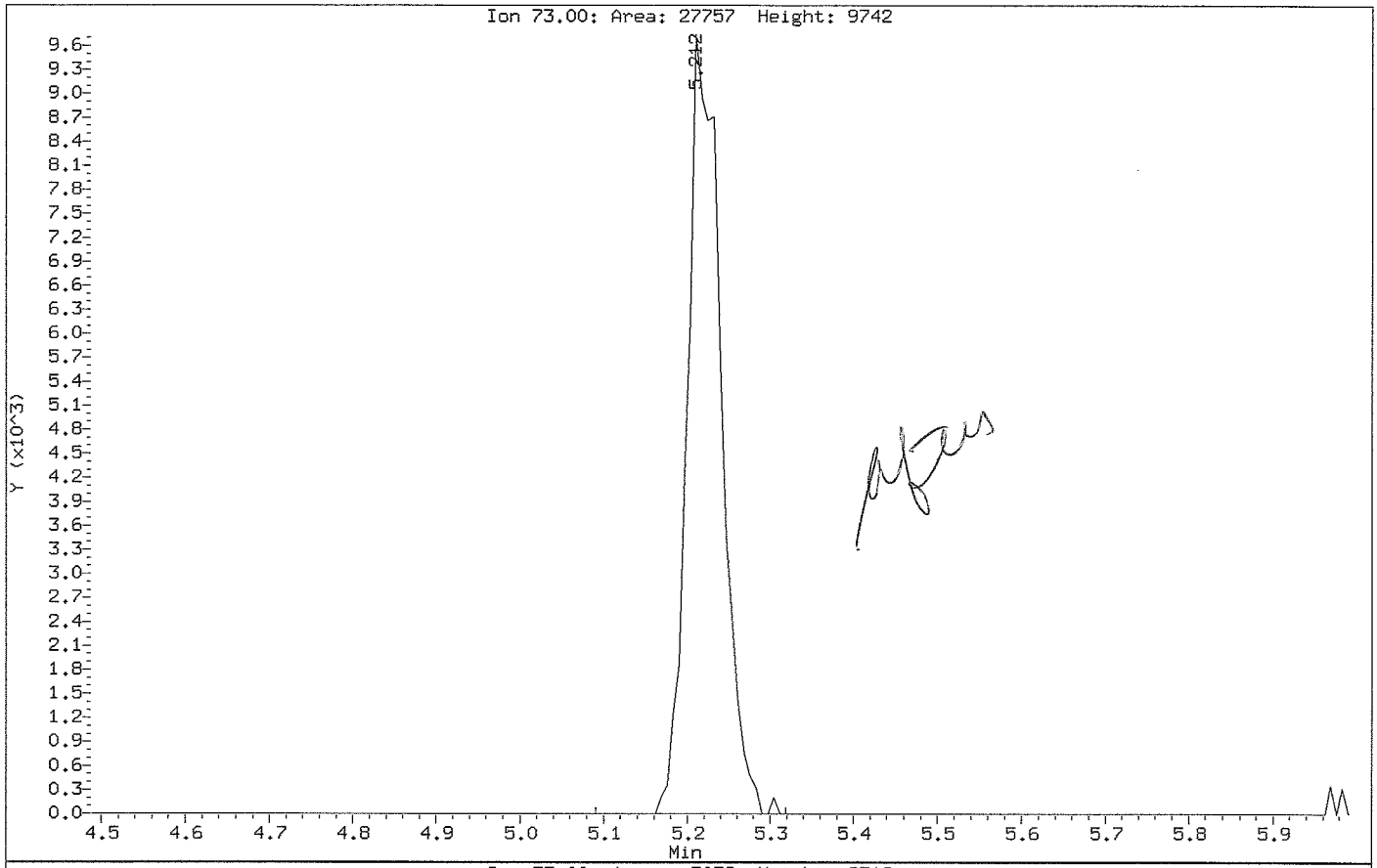
Compound: Methyl tert-butyl ether
CAS Number: 1634-04-4

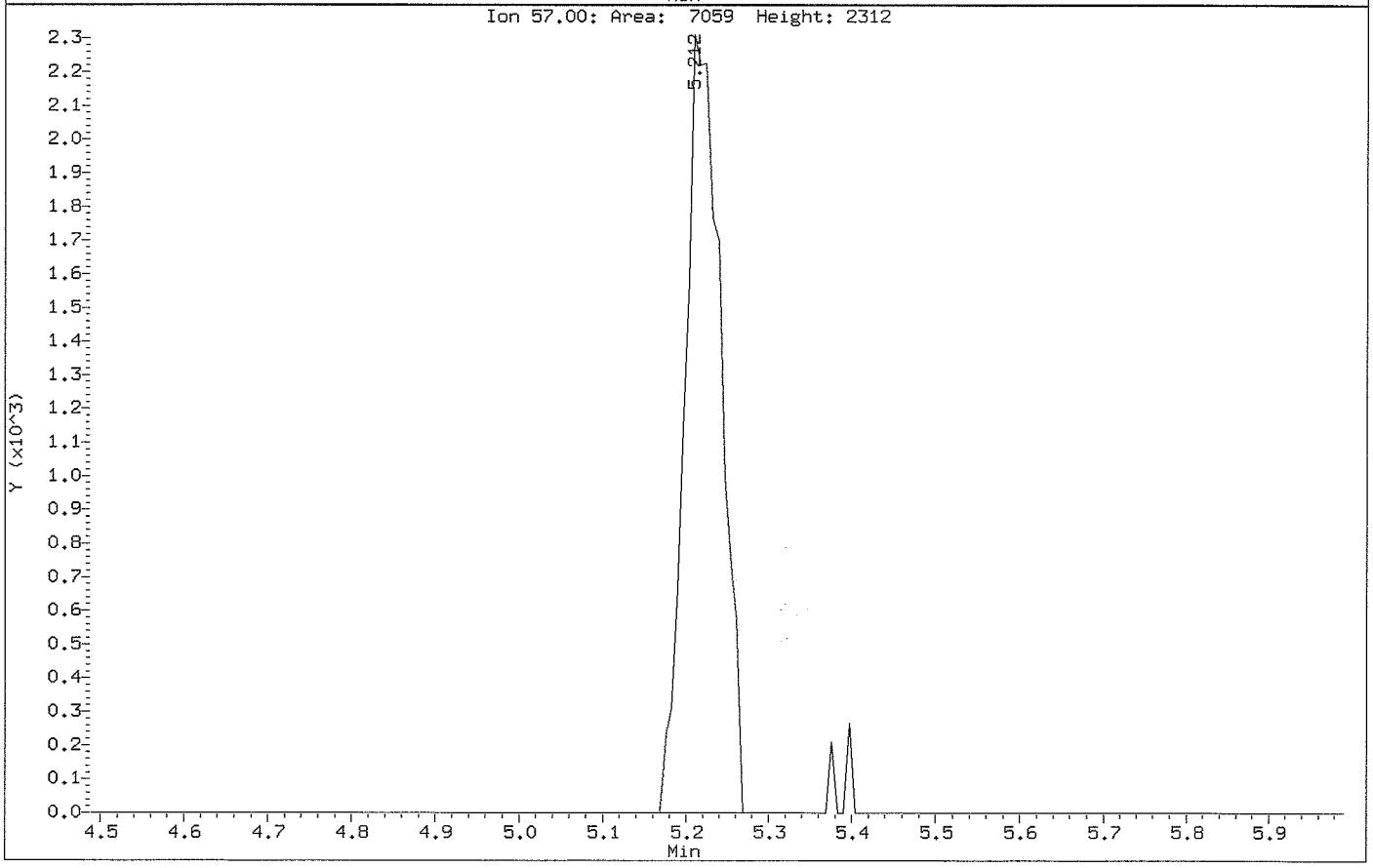




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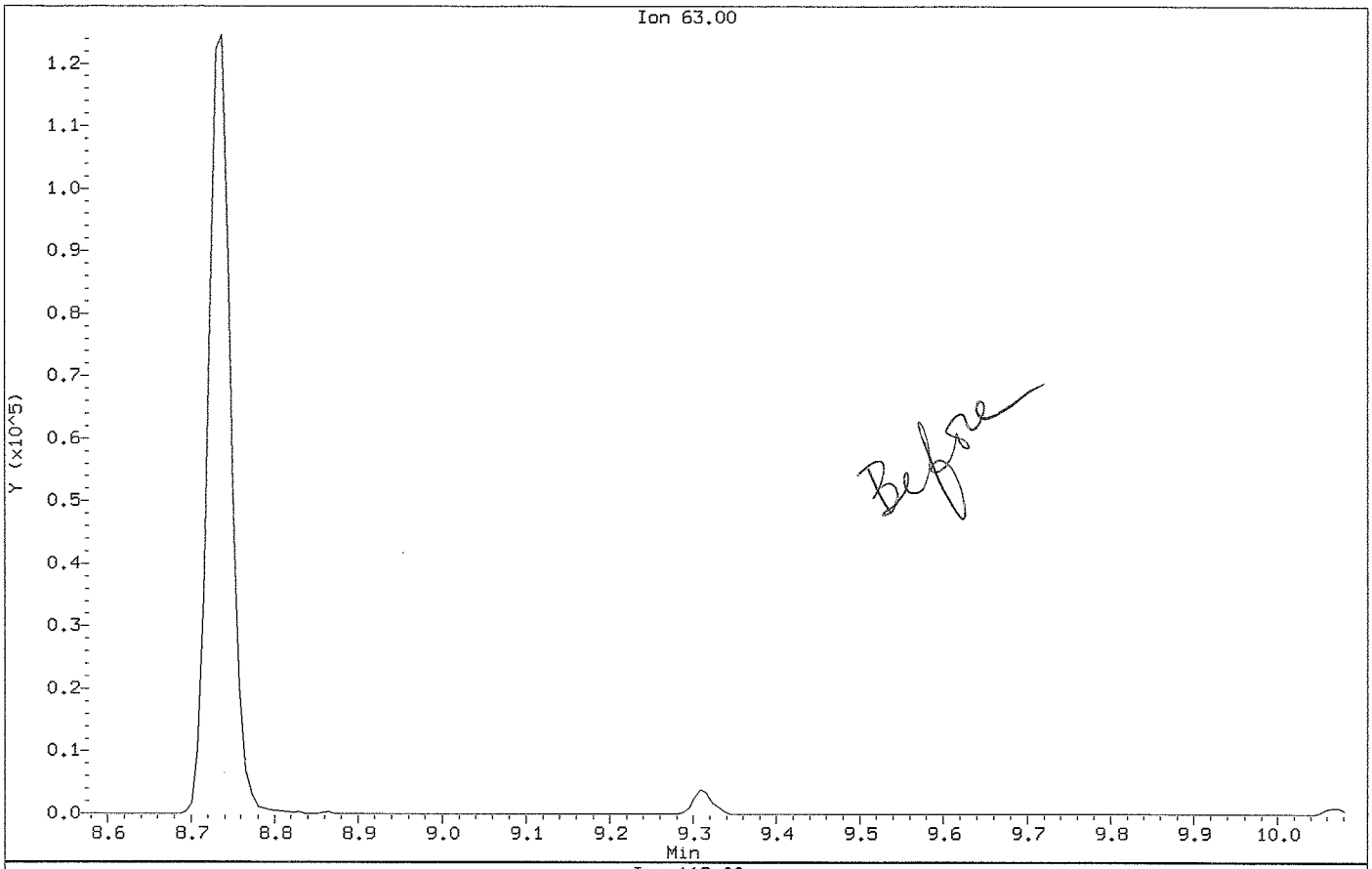
Compound: Methyl tert-butyl ether
CAS Number: 1634-04-4

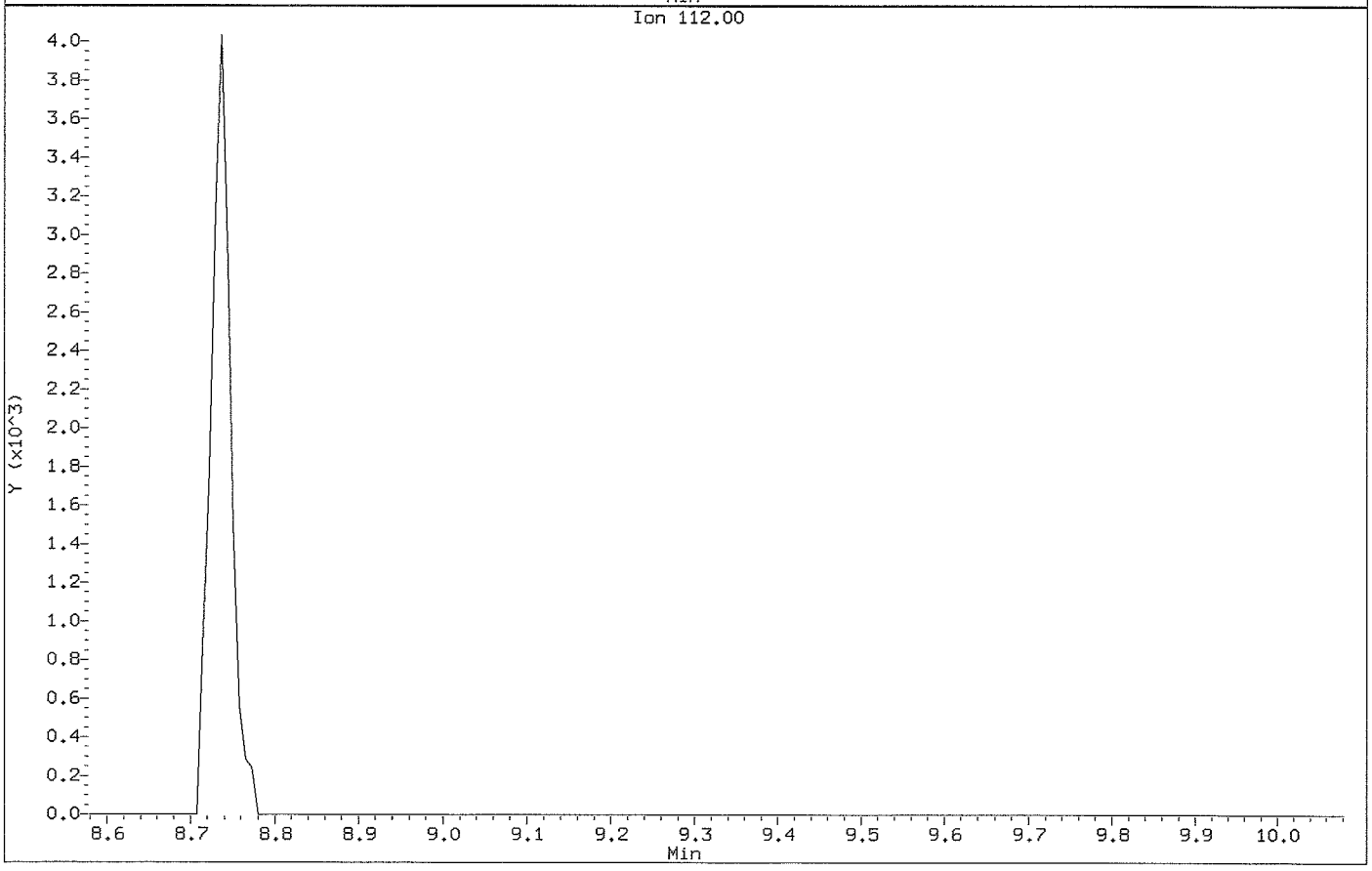




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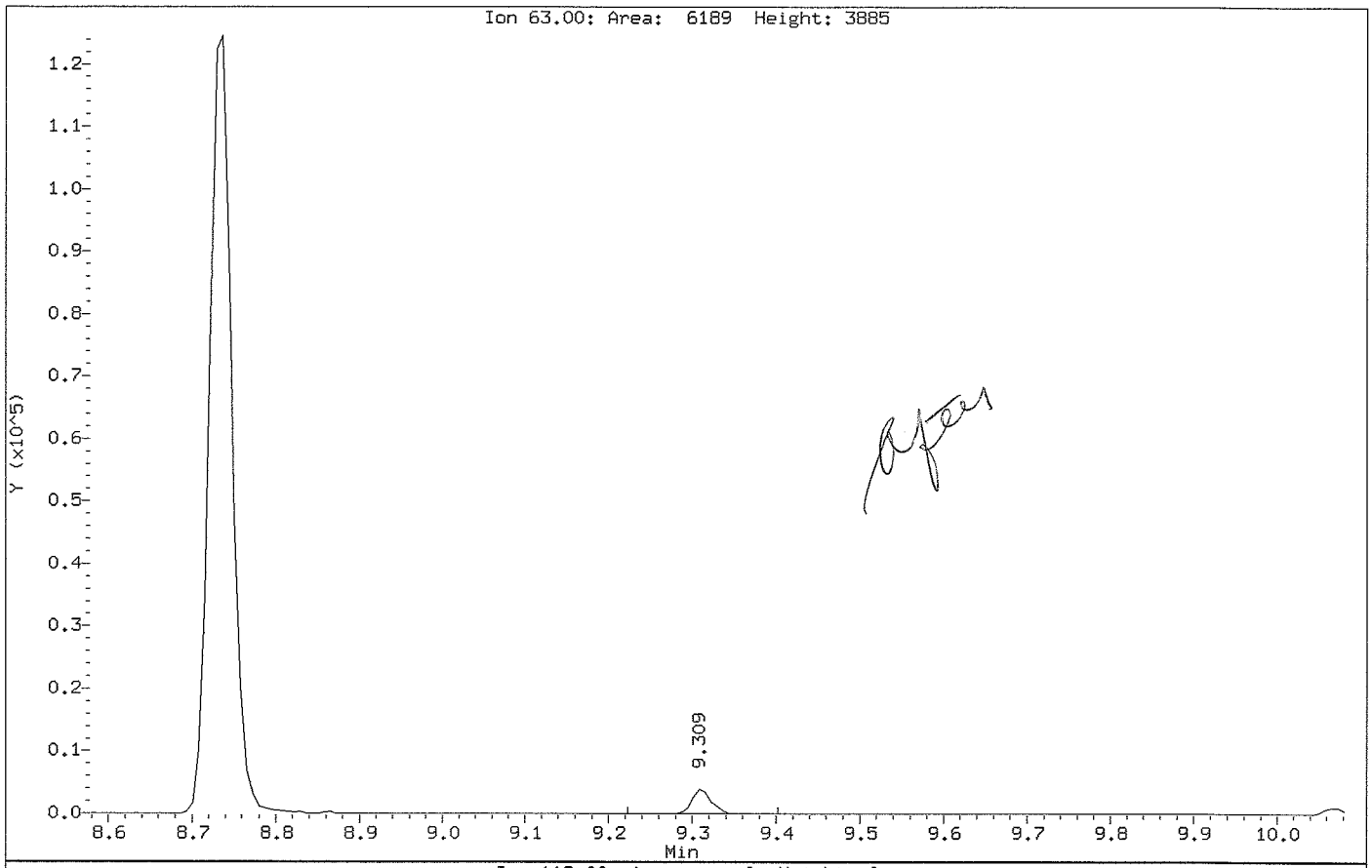
Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

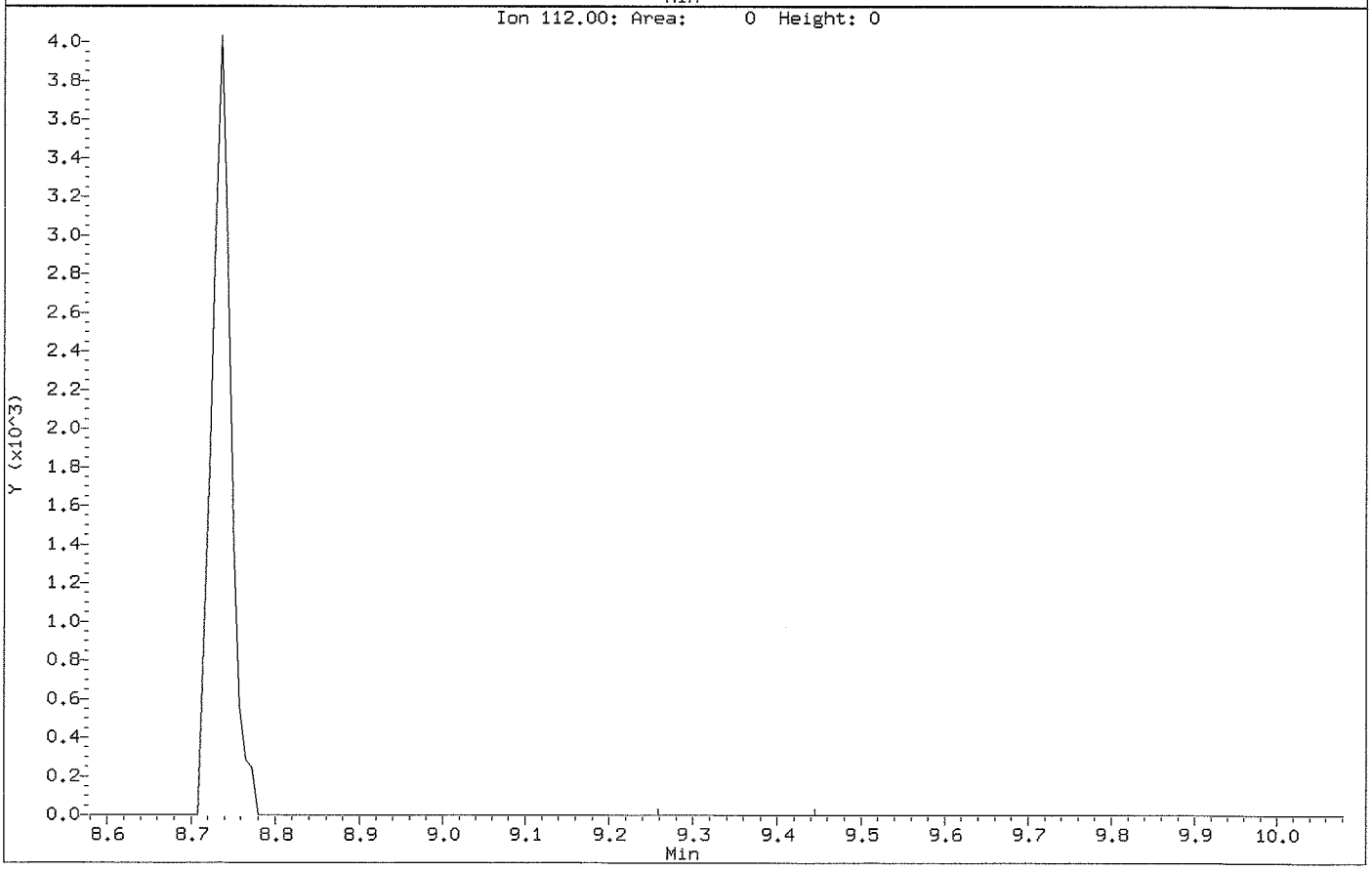




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Instrument: gcms-d.i
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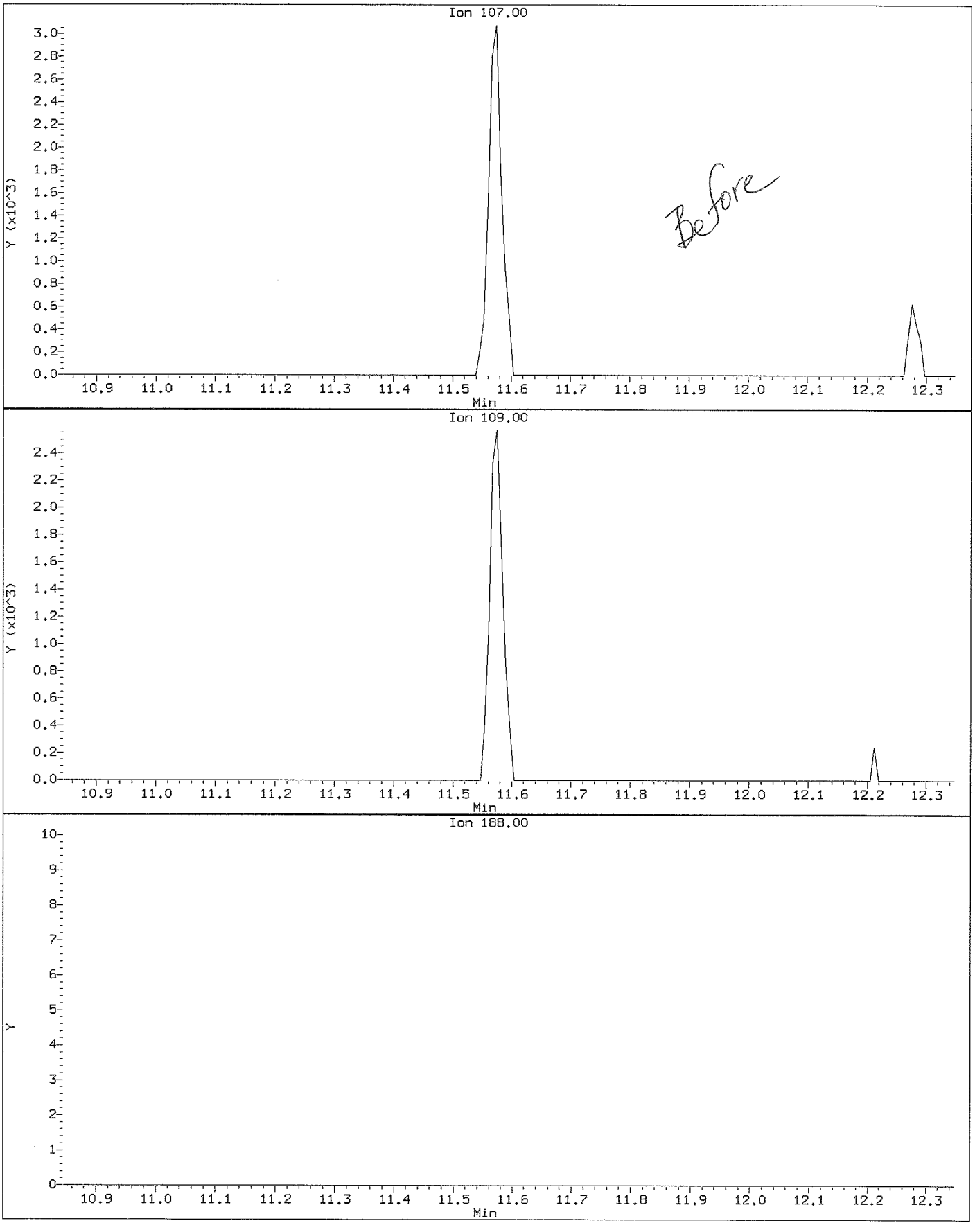
Compound: 1,2-Dichloropropane
CAS Number: 78-87-5





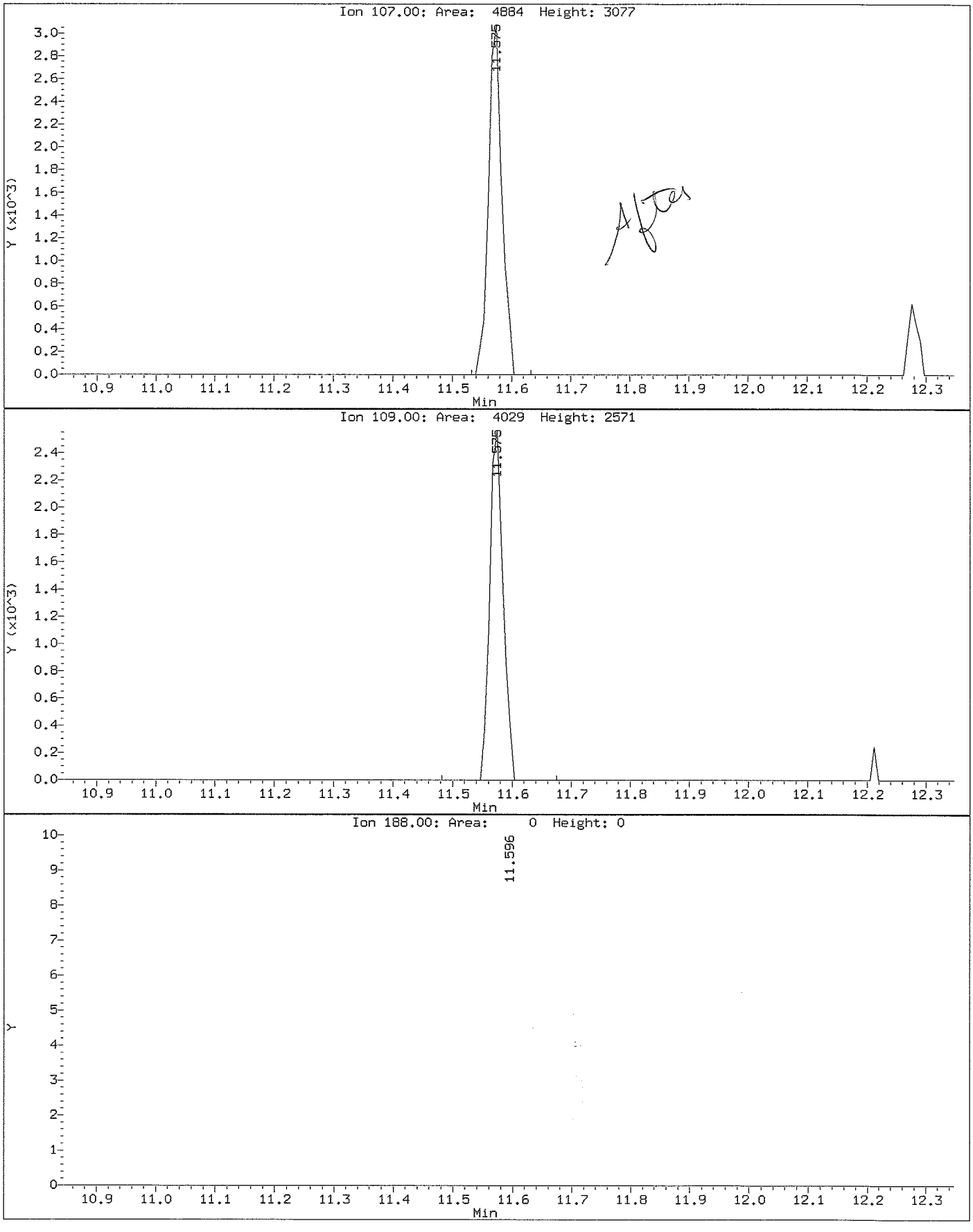
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Injection Date: 28-SEP-2012 12:48
Instrument: gcms-d.i
Client Sample ID:

Compound: 1,2-Dibromoethane
CAS Number: 106-93-4



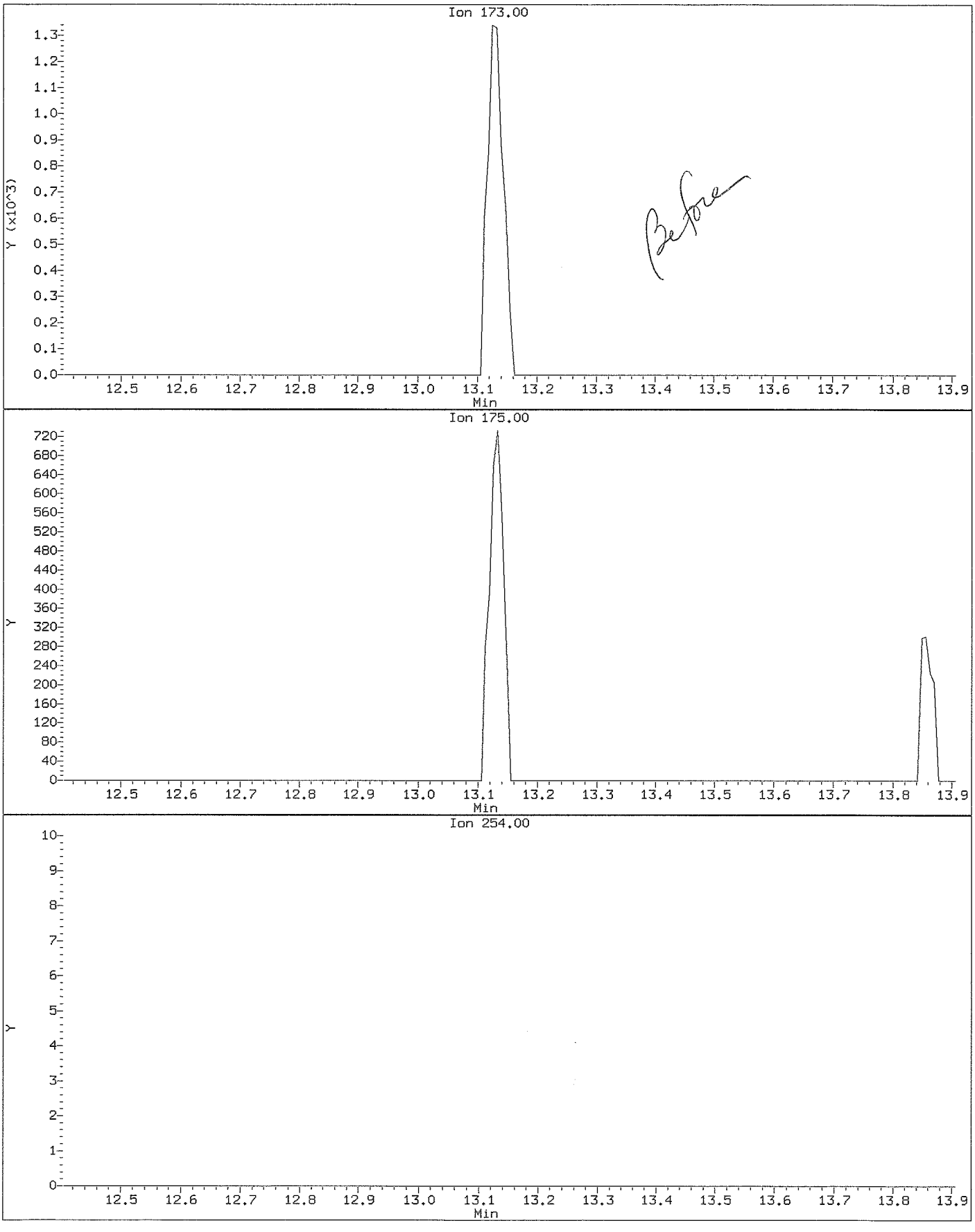
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Instrument: gcms-d.i
Client Sample ID:

Compound: 1,2-Dibromoethane
CAS Number: 106-93-4



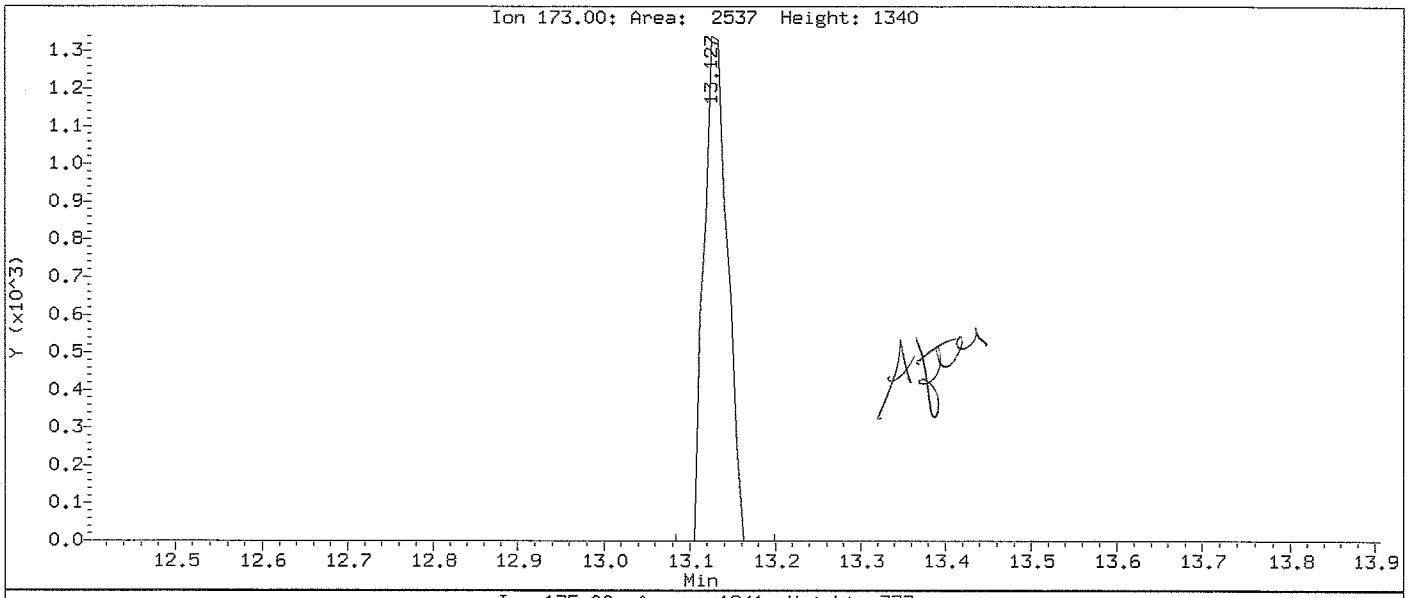
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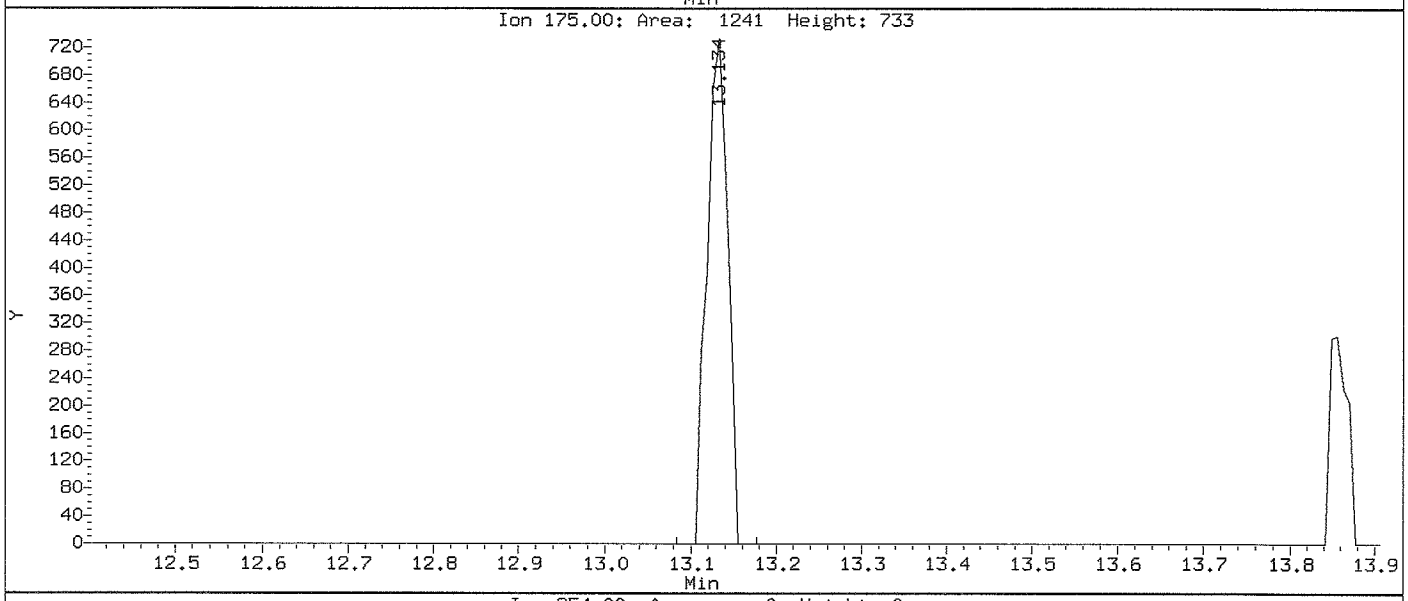
Compound: Bromoform
CAS Number: 75-25-2

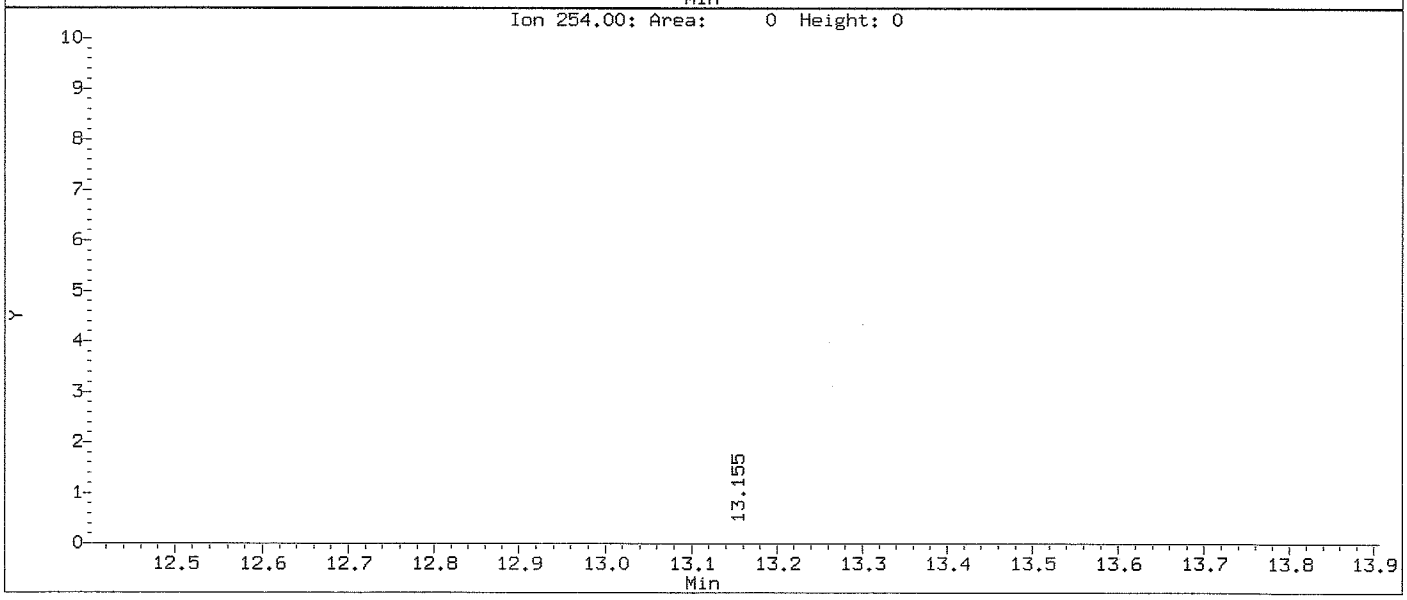


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Injection Date: 28-SEP-2012 12:48
Instrument: gcms-d.i
Client Sample ID:

Compound: Bromoform
CAS Number: 75-25-2







Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D2001.D
Report Date: 30-Sep-2012 19:37

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D092812.b\D2001.D
Lab Smp Id: VSTD100D28B
Inj Date : 28-SEP-2012 13:32 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114145-5,VSTD100D28B
Misc Info : SW846 8260B
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D092812.b\D826A10.m
Meth Date : 28-Sep-2012 01:38 djpaul Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

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

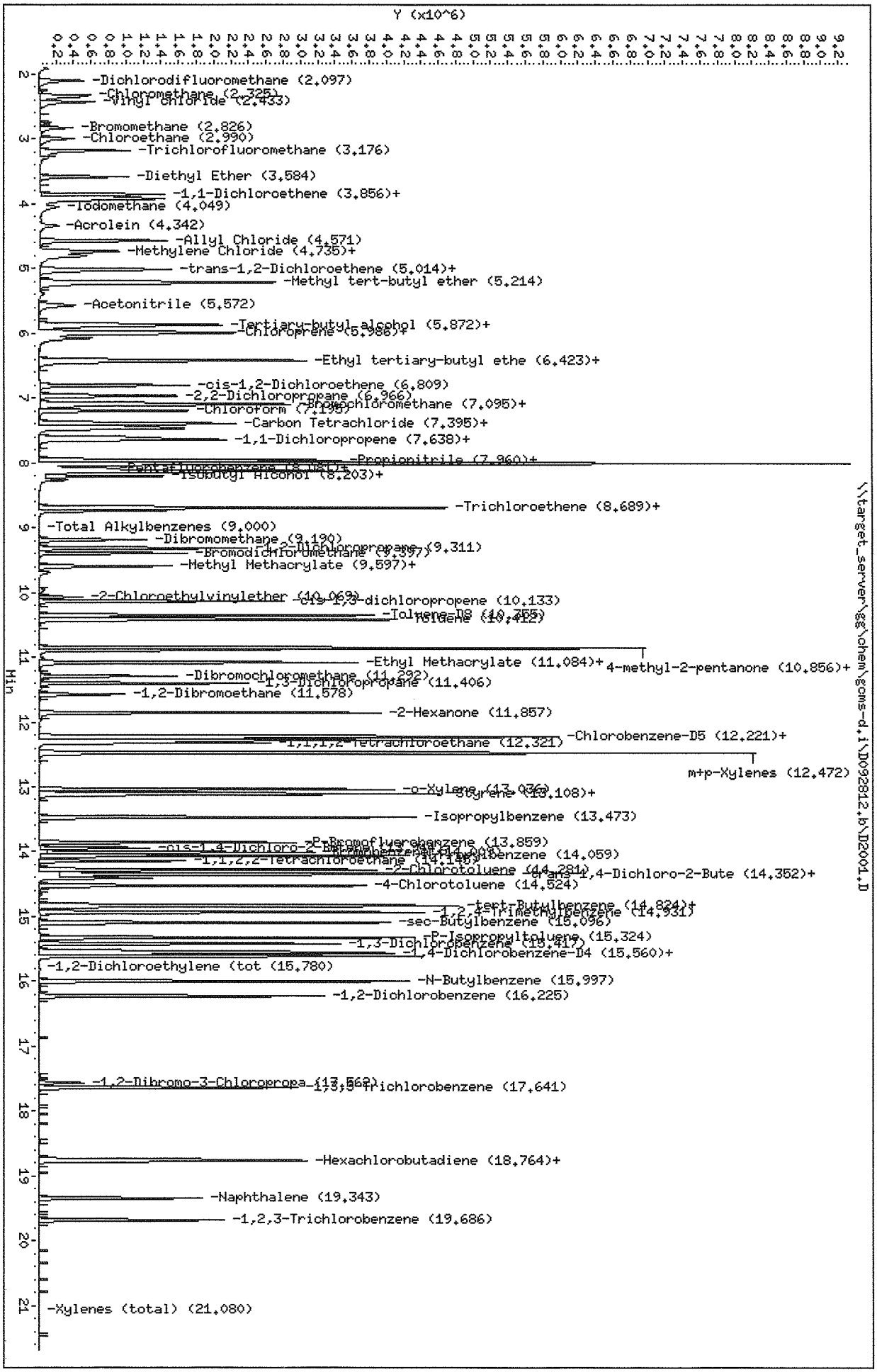
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.096	2.108	(0.259)	635477	100.000	105	
2	Chloromethane	50	2.325	2.344	(0.288)	1076702	100.000	95.9	
3	Vinyl chloride	62	2.432	2.444	(0.301)	851930	100.000	99.7	
4	Bromomethane	94	2.826	2.844	(0.350)	352406	100.000	130	
5	Chloroethane	64	2.990	3.009	(0.370)	511360	100.000	93.5	
6	Trichlorofluoromethane	101	3.176	3.195	(0.393)	1107420	100.000	105	
7	Diethyl Ether	59	3.583	3.602	(0.443)	614046	100.000	100	
8	Tertiary-butyl alcohol	59	5.871	5.890	(0.727)	292871	500.000	531	
9	1,1-Dichloroethene	96	3.855	3.874	(0.477)	526564	100.000	96.3	
10	Carbon Disulfide	76	3.898	3.917	(0.482)	2025807	100.000	98.8	
11	Freon-113	151	3.927	3.945	(0.486)	388816	100.000	99.6	
12	Iodomethane	142	4.048	4.074	(0.501)	365535	100.000	112	
13	Acrolein	56	4.341	4.360	(0.537)	286927	500.000	474	
14	Methylene Chloride	84	4.735	4.761	(0.586)	694400	100.000	98.8	
15	Acetone	43	4.813	4.832	(0.596)	850253	500.000	466	
16	Isobutyl Alcohol	43	8.267	8.286	(1.023)	202735	2000.00	1230	
17	trans-1,2-Dichloroethene	96	5.013	5.039	(0.620)	665669	100.000	97.5	
18	Allyl Chloride	41	4.570	4.589	(0.566)	1236532	100.000	96.9	
19	Methyl tert-butyl ether	73	5.214	5.240	(0.645)	3377062	200.000	203	
20	Acetonitrile	39	5.571	5.597	(0.689)	148956	1000.00	786	
21	Di-isopropyl ether	45	5.871	5.890	(0.727)	2978992	100.000	103	
22	Chloroprene	53	5.986	6.005	(0.741)	1482292	100.000	99.4	
23	Propionitrile	54	7.974	7.992	(0.987)	815461	1000.00	976	

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D2001.D
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		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	24	Methacrylonitrile	41	8.009	8.028	(0.991)	4649746	1000.00	981	
	25	1,1-Dichloroethane	63	6.007	6.033	(0.743)	1315800	100.000	99.6	
	26	Acrylonitrile	52	6.072	6.098	(0.751)	553421	500.000	523	
	27	Ethyl tertiary-butyl ether	59	6.422	6.441	(0.795)	2246975	100.000	104	
	28	Vinyl Acetate	43	6.422	6.441	(0.735)	2046634	100.000	109	
	29	cis-1,2-Dichloroethene	96	6.808	6.827	(0.843)	712478	100.000	101	
M	30	1,2-Dichloroethylene (total)	96				1378147	100.000	199	
	31	Methyl Methacrylate	41	9.597	9.615	(1.098)	730553	100.000	110	
	32	2,2-Dichloropropane	77	6.965	6.984	(0.862)	991263	100.000	102	
	33	Bromochloromethane	128	7.080	7.099	(0.876)	293894	100.000	98.4	
	34	Chloroform	83	7.194	7.220	(0.890)	1188147	100.000	100	
	35	Carbon Tetrachloride	117	7.380	7.399	(0.845)	879063	100.000	103	
	36	Tetrahydrofuran	42	7.402	7.420	(0.916)	1017823	500.000	522	
$	37	Dibromofluoromethane	113	7.437	7.463	(0.920)	615650	100.000	98.6	
	38	1,1,1-Trichloroethane	97	7.473	7.492	(0.925)	1064625	100.000	100	
	39	1,1-Dichloropropene	75	7.638	7.656	(0.874)	944794	100.000	96.7	
	40	2-Butanone	43	7.609	7.628	(0.942)	1558491	500.000	507	
	41	Benzene	78	7.959	7.978	(0.911)	2728946	100.000	98.2	
*	42	Pentafluorobenzene	168	8.081	8.100	(1.000)	630630	50.0000		
	43	Cyclohexane	56	7.094	7.120	(0.878)	1342629	100.000	107	
	44	Ethyl Methacrylate	69	11.084	11.103	(1.268)	850615	100.000	116	
$	45	1,2-Dichloroethane-D4	65	8.124	8.143	(1.005)	836840	100.000	99.2	
	46	Tertiary-amyl methyl ether	73	8.131	8.150	(1.006)	1718549	100.000	106	
	47	1,2-Dichloroethane	62	8.210	8.228	(0.939)	1032476	100.000	101	
	48	Trichloroethene	95	8.696	8.715	(0.995)	718663	100.000	94.2	
*	49	1,4-Difluorobenzene	114	8.739	8.757	(1.000)	1023805	50.0000		
	50	Dibromomethane	93	9.189	9.208	(1.052)	415333	100.000	102	
	51	1,2-Dichloropropane	63	9.311	9.329	(1.065)	738181	100.000	104	
	52	Bromodichloromethane	83	9.396	9.415	(1.075)	955311	100.000	108	
	53	cis-1,3-dichloropropene	75	10.133	10.152	(1.160)	1216215	100.000	108	
	54	1,4-Dioxane	88	9.632	9.651	(1.102)	18356	2000.00	151	
$	55	Toluene-D8	98	10.355	10.373	(1.185)	2356128	100.000	95.6	
	56	2-Chloroethylvinylether	63	10.069	10.087	(1.152)	160153	100.000	85.4	
	57	Toluene	92	10.412	10.431	(1.191)	1786512	100.000	99.3	
	58	4-methyl-2-pentanone	43	10.848	10.867	(1.241)	3711596	500.000	544	
	59	Tetrachloroethene	164	10.862	10.881	(0.889)	549227	100.000	94.2	
	60	trans-1,3-Dichloropropene	75	10.891	10.910	(1.246)	1021245	100.000	109	
	61	1,1,2-Trichloroethane	83	11.077	11.096	(1.268)	499668	100.000	102	
	62	Dibromochloromethane	129	11.291	11.310	(0.924)	707980	100.000	109	
	63	1,3-Dichloropropane	76	11.406	11.424	(0.933)	1125313	100.000	102	
	64	1,2-Dibromoethane	107	11.577	11.596	(1.325)	613081	100.000	103	
	65	2-Hexanone	43	11.856	11.875	(0.970)	2554030	500.000	547	
*	66	Chlorobenzene-D5	117	12.221	12.240	(1.000)	950337	50.0000		
	67	Chlorobenzene	112	12.242	12.261	(1.002)	1799361	100.000	96.3	
	152	1-Chlorohexane	91	12.221	12.240	(1.000)	1020728	100.000	93.3	
	68	Ethylbenzene	106	12.285	12.304	(1.005)	1036262	100.000	96.4	
	69	1,1,1,2-Tetrachloroethane	131	12.321	12.340	(1.008)	672399	100.000	106	
M	70	Xylenes (total)	106				3698504	300.000	291	
	71	m+p-Xylenes	106	12.471	12.490	(1.020)	2506458	200.000	192	
	72	o-Xylene	106	13.036	13.062	(1.067)	1192046	100.000	99.1	
	73	Styrene	104	13.107	13.126	(1.073)	2200400	100.000	105	
	74	Bromoform	173	13.136	13.155	(1.075)	450008	100.000	112	
	75	Isopropylbenzene	105	13.472	13.491	(0.867)	2949601	100.000	97.8	
$	76	P-Bromofluorobenzene	95	13.858	13.877	(1.586)	990676	100.000	97.3	

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D2001.D
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
77	cis-1,4-Dichloro-2-Butene	53	13.944	13.970	(0.897)	307867	100.000	104	
78	trans-1,4-Dichloro-2-Butene	53	14.409	14.427	(0.927)	303127	100.000	105	
79	Bromobenzene	156	14.008	14.027	(0.902)	801206	100.000	101	
80	N-Propylbenzene	91	14.058	14.077	(0.905)	3519489	100.000	95.0	
81	1,1,2,2-Tetrachloroethane	83	14.144	14.163	(0.910)	796437	100.000	99.2	
82	1,3,5-Trimethylbenzene	105	14.352	14.370	(0.924)	2611282	100.000	98.9	
83	2-Chlorotoluene	91	14.280	14.299	(0.919)	2196722	100.000	97.4	
84	1,2,3-Trichloropropane	75	14.337	14.363	(0.923)	647697	100.000	99.1	
85	4-Chlorotoluene	91	14.523	14.542	(0.935)	2256460	100.000	97.2	
86	tert-Butylbenzene	119	14.823	14.842	(0.954)	2479446	100.000	99.8	
87	Pentachloroethane	117	14.845	14.864	(0.955)	563270	100.000	104	
88	1,2,4-Trimethylbenzene	105	14.931	14.949	(0.961)	2628939	100.000	100	
89	P-Isopropyltoluene	119	15.324	15.343	(0.986)	2631946	100.000	99.3	
90	1,3-Dichlorobenzene	146	15.417	15.443	(0.992)	1434427	100.000	97.9	
* 91	1,4-Dichlorobenzene-D4	152	15.538	15.557	(1.000)	538376	50.0000		
92	1,4-Dichlorobenzene	146	15.560	15.579	(1.001)	1559491	100.000	96.1	
93	N-Butylbenzene	91	15.996	16.015	(1.029)	2539637	100.000	99.6	
94	sec-Butylbenzene	105	15.095	15.114	(0.971)	3097866	100.000	95.3	
95	1,2-Dichlorobenzene	146	16.232	16.251	(1.045)	1381063	100.000	99.8	
96	1,2-Dibromo-3-Chloropropane	75	17.562	17.581	(1.130)	127345	100.000	94.3	
97	1,3,5-Trichlorobenzene	180	17.641	17.659	(1.135)	968747	100.000	96.4	
98	Hexachlorobutadiene	225	18.742	18.760	(1.206)	358015	100.000	89.4	
99	1,2,4-Trichlorobenzene	180	18.770	18.789	(1.208)	821301	100.000	101	
100	1,2,3-Trimethylbenzene	105	15.610	15.629	(1.005)	2626118	100.000	98.1	
101	Naphthalene	128	19.349	19.368	(1.245)	1586203	100.000	114	
102	1,2,3-Trichlorobenzene	180	19.686	19.704	(1.267)	676635	100.000	102	
103	Methyl Acetate	43	5.042	5.068	(0.624)	538314	100.000	101	
104	Methylcyclohexane	83	8.689	8.707	(1.075)	1086565	100.000	104	
M 153	Total Alkylbenzenes	100				19508605	100.000	688	



Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D2001.D
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Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-d.i
Operator: REC
Column diameter: 0.18

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Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D2002A.D
Report Date: 30-Sep-2012 19:40

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D092812.b\D2002A.D
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Inj Date : 28-SEP-2012 14:19 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114145-10
Misc Info : SW846 8260B
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D092812.b\D826A10.m
Meth Date : 28-Sep-2012 01:38 djpaul Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

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	2.094	2.108	(0.259)	339230	53.7081	53.7	
2 Chloromethane	50	2.330	2.344	(0.288)	533538	45.8615	45.9	
3 Vinyl chloride	62	2.430	2.444	(0.301)	433144	48.9263	48.9	
4 Bromomethane	94	2.823	2.844	(0.349)	153522	45.7031	45.7	
5 Chloroethane	64	2.988	3.009	(0.370)	252527	44.5636	44.6	
6 Trichlorofluoromethane	101	3.173	3.195	(0.393)	536680	49.2938	49.3	
7 Diethyl Ether	59	3.588	3.602	(0.444)	308757	48.5755	48.6	
8 Tertiary-butyl alcohol	59	5.869	5.890	(0.726)	142261	248.860	249	
9 1,1-Dichloroethene	96	3.853	3.874	(0.477)	278269	49.0890	49.1	
10 Carbon Disulfide	76	3.896	3.917	(0.482)	990915	46.6543	46.6	
11 Freon-113	151	3.924	3.945	(0.485)	193546	47.8414	47.8	
12 Iodomethane	142	4.053	4.074	(0.501)	192868	48.5833	48.6	
13 Acrolein	56	4.339	4.360	(0.537)	151537	241.386	241	
14 Methylene Chloride	84	4.732	4.761	(0.585)	352492	48.3771	48.4	
15 Acetone	43	4.811	4.832	(0.595)	88490	46.7826	46.8	
16 Isobutyl Alcohol	43	8.264	8.286	(1.022)	185068	1080.78	1080	
17 trans-1,2-Dichloroethene	96	5.011	5.039	(0.620)	329261	46.5315	46.5	
18 Allyl Chloride	41	4.568	4.589	(0.565)	627244	47.4495	47.4	
19 Methyl tert-butyl ether	73	5.218	5.240	(0.645)	1775549	103.041	103	
20 Acetonitrile	39	5.569	5.597	(0.689)	80724	478.456	478	
21 Di-isopropyl ether	45	5.869	5.890	(0.726)	1484614	49.7020	49.7	
22 Chloroprene	53	5.983	6.005	(0.740)	725840	46.9573	47.0	
23 Propionitrile	54	7.971	7.992	(0.986)	401407	463.638	464	

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D2002A.D
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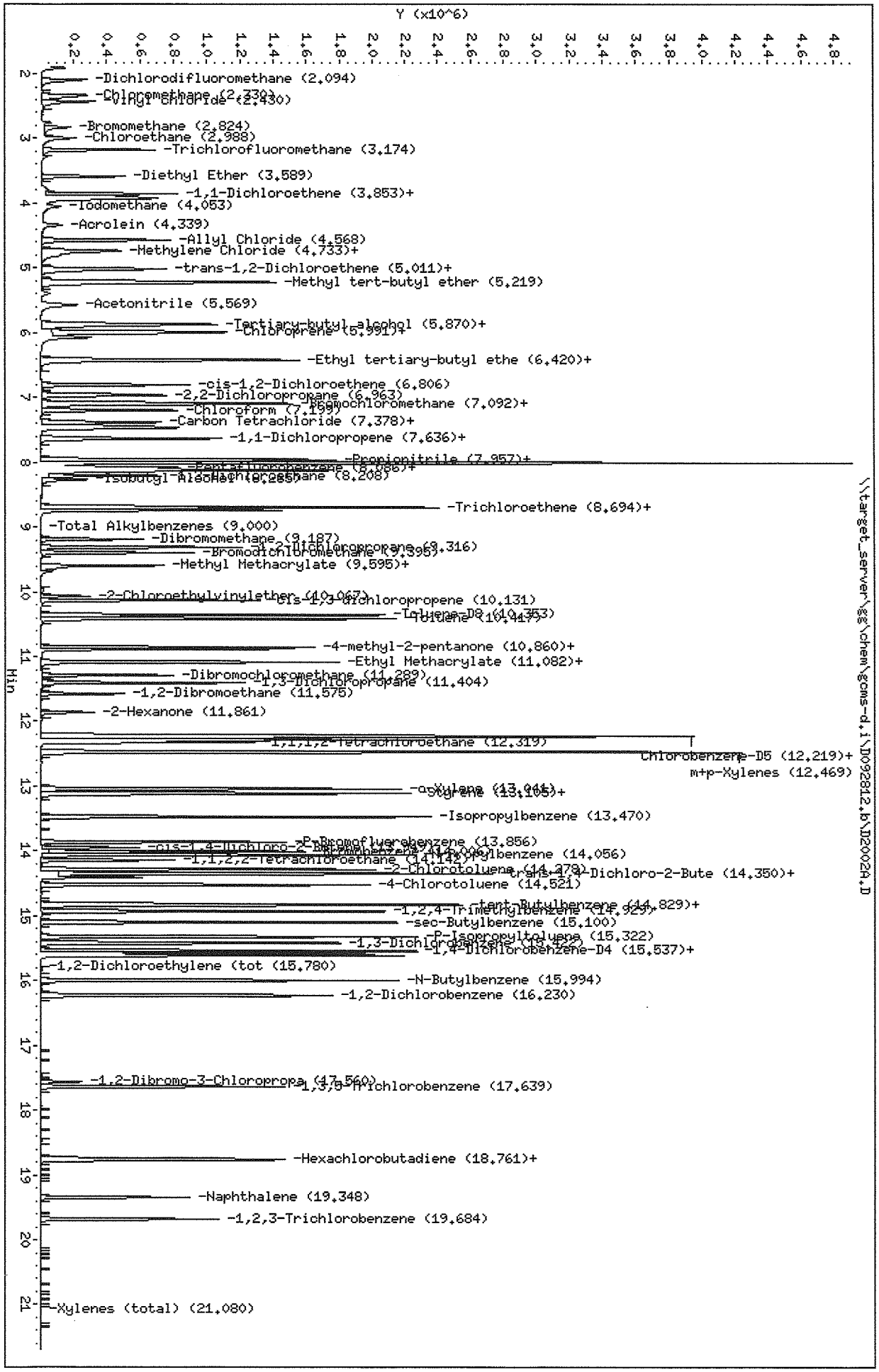
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	24 Methacrylonitrile	41	8.007	8.028	(0.990)	2456218	500.119	500	
	25 1,1-Dichloroethane	63	6.012	6.033	(0.744)	669890	48.9269	48.9	
	26 Acrylonitrile	52	6.076	6.098	(0.752)	270298	246.675	247	
	27 Ethyl tertiary-butyl ether	59	6.427	6.441	(0.795)	1126884	50.5752	50.6	
	28 Vinyl Acetate	43	6.420	6.441	(0.735)	1067122	55.2163	55.2	
	29 cis-1,2-Dichloroethene	96	6.806	6.827	(0.842)	356912	49.0524	49.0	
M	30 1,2-Dichloroethylene (total)	96				686173	95.5839	95.6	
	31 Methyl Methacrylate	41	9.594	9.615	(1.098)	356838	46.8398	46.8	
	32 2,2-Dichloropropane	77	6.963	6.984	(0.861)	454678	45.2846	45.3	
	33 Bromochloromethane	128	7.077	7.099	(0.875)	154825	50.0218	50.0	
	34 Chloroform	83	7.199	7.220	(0.890)	593115	48.3851	48.4	
	35 Carbon Tetrachloride	117	7.378	7.399	(0.845)	430536	48.8599	48.8	
	36 Tetrahydrofuran	42	7.406	7.420	(0.916)	104481	51.7241	51.7	
$	37 Dibromofluoromethane	113	7.435	7.463	(0.920)	324131	50.0850	50.1	
	38 1,1,1-Trichloroethane	97	7.471	7.492	(0.924)	521548	47.3175	47.3	
	39 1,1-Dichloropropene	75	7.635	7.656	(0.874)	485401	48.2127	48.2	
	40 2-Butanone	43	7.607	7.628	(0.941)	149584	46.9453	46.9	
	41 Benzene	78	7.957	7.978	(0.911)	1395348	48.7545	48.8	
*	42 Pentafluorobenzene	168	8.086	8.100	(1.000)	653532	50.0000		
	43 Cyclohexane	56	7.092	7.120	(0.877)	688398	52.7940	52.8	
	44 Ethyl Methacrylate	69	11.089	11.103	(1.269)	415138	47.9344	47.9	
$	45 1,2-Dichloroethane-D4	65	8.121	8.143	(1.004)	427022	48.8748	48.9	
	46 Tertiary-amyl methyl ether	73	8.128	8.150	(1.005)	847862	50.3129	50.3	
	47 1,2-Dichloroethane	62	8.207	8.228	(0.939)	524187	49.6163	49.6	
	48 Trichloroethene	95	8.693	8.715	(0.995)	351327	44.7143	44.7	
*	49 1,4-Difluorobenzene	114	8.736	8.757	(1.000)	1054618	50.0000		
	50 Dibromomethane	93	9.187	9.208	(1.052)	207390	49.5731	49.6	
	51 1,2-Dichloropropane	63	9.315	9.329	(1.066)	373701	50.8908	50.9	
	52 Bromodichloromethane	83	9.394	9.415	(1.075)	487399	53.2995	53.3	
	53 cis-1,3-dichloropropene	75	10.131	10.152	(1.160)	587464	50.5933	50.6	
	54 1,4-Dioxane	88	9.630	9.651	(1.102)	73627	588.175	588(R)	
$	55 Toluene-D8	98	10.352	10.373	(1.185)	1279676	50.4321	50.4	
	56 2-Chloroethylvinylether	63	10.066	10.087	(1.152)	98554	52.2494	52.2	
	57 Toluene	92	10.417	10.431	(1.192)	897417	48.4050	48.4	
	58 4-methyl-2-pentanone	43	10.853	10.867	(1.242)	355859	39.0167	39.0(R)	
	59 Tetrachloroethene	164	10.860	10.881	(0.889)	272953	45.8713	45.9	
	60 trans-1,3-Dichloropropene	75	10.888	10.910	(1.246)	515218	48.3771	48.4	
	61 1,1,2-Trichloroethane	83	11.074	11.096	(1.268)	251908	50.1413	50.1	
	62 Dibromochloromethane	129	11.289	11.310	(0.924)	353779	47.6848	47.7	
	63 1,3-Dichloropropane	76	11.403	11.424	(0.933)	561445	50.0206	50.0	
	64 1,2-Dibromoethane	107	11.575	11.596	(1.325)	305553	50.0654	50.1	
	65 2-Hexanone	43	11.861	11.875	(0.971)	232490	42.5711	42.6	
*	66 Chlorobenzene-D5	117	12.218	12.240	(1.000)	969591	50.0000		
	67 Chlorobenzene	112	12.240	12.261	(1.002)	977369	51.2499	51.2	
	152 1-Chlorohexane	91	12.218	12.240	(1.000)	503328	45.0895	45.1	
	68 Ethylbenzene	106	12.283	12.304	(1.005)	511725	46.6773	46.7	
	69 1,1,1,2-Tetrachloroethane	131	12.318	12.340	(1.008)	329914	51.2136	51.2	
M	70 Xylenes (total)	106				1946739	150.182	150	
	71 m+p-Xylenes	106	12.469	12.490	(1.020)	1308111	98.1569	98.2	
	72 o-Xylene	106	13.041	13.062	(1.067)	638628	52.0249	52.0	
	73 Styrene	104	13.105	13.126	(1.073)	1094598	51.3177	51.3	
	74 Bromoform	173	13.134	13.155	(1.075)	207853	44.1374	44.1	
	75 Isopropylbenzene	105	13.470	13.491	(0.867)	1579166	51.3117	51.3	
$	76 P-Bromofluorobenzene	95	13.856	13.877	(1.586)	516570	49.2635	49.3	

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							CONCENTRATIONS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	==========	====	====	========	========	========	=======	=======	==========
77	cis-1,4-Dichloro-2-Butene	53	13.949	13.970	(0.898)	140747	46.7745	46.8	
78	trans-1,4-Dichloro-2-Butene	53	14.406	14.427	(0.927)	141442	47.9433	47.9	
79	Bromobenzene	156	14.006	14.027	(0.902)	399565	49.4799	49.5	
80	N-Propylbenzene	91	14.056	14.077	(0.905)	1954939	51.7157	51.7	
81	1,1,2,2-Tetrachloroethane	83	14.142	14.163	(0.910)	397090	48.4356	48.4	
82	1,3,5-Trimethylbenzene	105	14.349	14.370	(0.924)	1297211	48.1203	48.1	
83	2-Chlorotoluene	91	14.278	14.299	(0.919)	1168341	50.7514	50.8	
84	1,2,3-Trichloropropane	75	14.342	14.363	(0.923)	325544	48.7848	48.8	
85	4-Chlorotoluene	91	14.521	14.542	(0.935)	1235558	52.1481	52.1	
86	tert-Butylbenzene	119	14.821	14.842	(0.954)	1297590	51.1476	51.1	
87	Pentachloroethane	117	14.842	14.864	(0.955)	272907	49.3098	49.3	
88	1,2,4-Trimethylbenzene	105	14.935	14.949	(0.961)	1308775	48.9659	49.0	
89	P-Isopropyltoluene	119	15.322	15.343	(0.986)	1420498	52.4844	52.5	
90	1,3-Dichlorobenzene	146	15.422	15.443	(0.993)	774822	51.8093	51.8	
* 91	1,4-Dichlorobenzene-D4	152	15.536	15.557	(1.000)	549573	50.0000		
92	1,4-Dichlorobenzene	146	15.557	15.579	(1.001)	783107	47.2796	47.3	
93	N-Butylbenzene	91	15.994	16.015	(1.029)	1281285	49.2519	49.2	
94	sec-Butylbenzene	105	15.100	15.114	(0.972)	1681574	50.6962	50.7	
95	1,2-Dichlorobenzene	146	16.230	16.251	(1.045)	743386	52.6380	52.6	
96	1,2-Dibromo-3-Chloropropane	75	17.567	17.581	(1.131)	63686	47.2345	47.2	
97	1,3,5-Trichlorobenzene	180	17.638	17.659	(1.135)	477884	46.5751	46.6	
98	Hexachlorobutadiene	225	18.746	18.760	(1.207)	176277	46.7471	46.7	
99	1,2,4-Trichlorobenzene	180	18.768	18.789	(1.208)	392186	47.2181	47.2	
100	1,2,3-Trimethylbenzene	105	15.608	15.629	(1.005)	1330729	48.6813	48.7	
101	Naphthalene	128	19.347	19.368	(1.245)	740616	46.2109	46.2	
102	1,2,3-Trichlorobenzene	180	19.683	19.704	(1.267)	343813	50.5674	50.6	
103	Methyl Acetate	43	5.047	5.068	(0.624)	265679	47.9926	48.0	
104	Methylcyclohexane	83	8.686	8.707	(1.074)	533966	49.1609	49.2	
M 153	Total Alkylbenzenes	100				10241872	352.382	352	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.



Data File: \\target_server\gs\chem\gcms-d.i\D092812.b\D2002A.D
Date : 28-SEP-2012 14:19
Client ID: Independent Source
Sample Info: WC114145-10
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-d.i
Operator: REC
Column diameter: 0.18

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D2002A.D
Report Date: 30-Sep-2012 19:40

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: WG114145-10
Level: LOW
Data Type: MS DATA
SpikeList File: IND_CHECK4.1.spk
Sublist File: all.sub
Client SDG: WG114145
Fraction: VOA
Client Smp ID: Independent Source
Operator: REC
SampleType: LCS
Quant Type: ISTD
Method File: \\target_server\gg\chem\gcms-d.i\D092812.b\D826A10.m
Misc Info: SW846 8260B

	SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	1	Dichlorodifluorome	50.0	53.7	107.42	80-120
	2	Chloromethane	50.0	45.9	91.72	80-120
	3	Vinyl chloride	50.0	48.9	97.85	80-120
	4	Bromomethane	50.0	45.7	91.41	80-120
	5	Chloroethane	50.0	44.6	89.13	80-120
	6	Trichlorofluoromet	50.0	49.3	98.59	80-120
	7	Diethyl Ether	50.0	48.6	97.15	80-120
	8	Tertiary-butyl alc	250	249	99.54	80-120
	9	1,1-Dichloroethene	50.0	49.1	98.18	80-120
	10	Carbon Disulfide	50.0	46.6	93.31	80-120
	11	Freon-113	50.0	47.8	95.68	80-120
	12	Iodomethane	50.0	48.6	97.17	80-120
	13	Acrolein	250	241	96.55	80-120
	14	Methylene Chloride	50.0	48.4	96.75	80-120
	15	Acetone	50.0	46.8	93.57	80-120
	16	Isobutyl Alcohol	1000	1080	108.08	80-120
	17	trans-1,2-Dichloro	50.0	46.5	93.06	80-120
	18	Allyl Chloride	50.0	47.4	94.90	80-120
	19	Methyl tert-butyl	100	103	103.04	80-120
	20	Acetonitrile	500	478	95.69	80-120
	21	Di-isopropyl ether	50.0	49.7	99.40	80-120
	22	Chloroprene	50.0	47.0	93.91	80-120
	23	Propionitrile	500	464	92.73	80-120
	24	Methacrylonitrile	500	500	100.02	80-120
	25	1,1-Dichloroethane	50.0	48.9	97.85	80-120
	26	Acrylonitrile	250	247	98.67	80-120
	27	Ethyl tertiary-but	50.0	50.6	101.15	80-120
	28	Vinyl Acetate	50.0	55.2	110.43	80-120
	29	cis-1,2-Dichloroet	50.0	49.0	98.10	80-120
M	30	1,2-Dichloroethyle	100	95.6	95.58	80-120
	31	Methyl Methacrylat	50.0	46.8	93.68	80-120
	32	2,2-Dichloropropan	50.0	45.3	90.57	80-120
	33	Bromochloromethane	50.0	50.0	100.04	80-120
	34	Chloroform	50.0	48.4	96.77	80-120
	35	Carbon Tetrachlori	50.0	48.8	97.72	80-120
	36	Tetrahydrofuran	50.0	51.7	103.45	80-120
	38	1,1,1-Trichloroeth	50.0	47.3	94.63	80-120
	39	1,1-Dichloropropen	50.0	48.2	96.43	80-120
	40	2-Butanone	50.0	46.9	93.89	80-120
	41	Benzene	50.0	48.8	97.51	80-120

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D2002A.D
Report Date: 30-Sep-2012 19:40

SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
43	Cyclohexane	50.0	52.8	105.59	80-120
44	Ethyl Methacrylate	50.0	47.9	95.87	80-120
46	Tertiary-amyl meth	50.0	50.3	100.63	80-120
47	1,2-Dichloroethane	50.0	49.6	99.23	80-120
48	Trichloroethene	50.0	44.7	89.43	80-120
50	Dibromomethane	50.0	49.6	99.15	80-120
51	1,2-Dichloropropan	50.0	50.9	101.78	80-120
52	Bromodichlorometha	50.0	53.3	106.60	80-120
53	cis-1,3-dichloropr	50.0	50.6	101.19	80-120
54	1,4-Dioxane	1000	588	58.82*	80-120
56	2-Chloroethylvinyl	50.0	52.2	104.50	80-120
57	Toluene	50.0	48.4	96.81	80-120
58	4-methyl-2-pentano	50.0	39.0	78.03*	80-120
59	Tetrachloroethene	50.0	45.9	91.74	80-120
60	trans-1,3-Dichloro	50.0	48.4	96.75	80-120
61	1,1,2-Trichloroeth	50.0	50.1	100.28	80-120
62	Dibromochlorometha	50.0	47.7	95.37	80-120
63	1,3-Dichloropropan	50.0	50.0	100.04	80-120
64	1,2-Dibromoethane	50.0	50.1	100.13	80-120
65	2-Hexanone	50.0	42.6	85.14	80-120
67	Chlorobenzene	50.0	51.2	102.50	80-120
152	1-Chlorohexane	50.0	45.1	90.18	80-120
68	Ethylbenzene	50.0	46.7	93.35	80-120
69	1,1,1,2-Tetrachlor	50.0	51.2	102.43	80-120
M 70	Xylenes (total)	150	150	100.12	80-120
71	m+p-Xylenes	100	98.2	98.16	80-120
72	o-Xylene	50.0	52.0	104.05	80-120
73	Styrene	50.0	51.3	102.64	80-120
74	Bromoform	50.0	44.1	88.27	80-120
75	Isopropylbenzene	50.0	51.3	102.62	80-120
77	cis-1,4-Dichloro-2	50.0	46.8	93.55	80-120
78	trans-1,4-Dichloro	50.0	47.9	95.89	80-120
79	Bromobenzene	50.0	49.5	98.96	80-120
80	N-Propylbenzene	50.0	51.7	103.43	80-120
81	1,1,2,2-Tetrachlor	50.0	48.4	96.87	80-120
82	1,3,5-Trimethylben	50.0	48.1	96.24	80-120
83	2-Chlorotoluene	50.0	50.8	101.50	80-120
84	1,2,3-Trichloropro	50.0	48.8	97.57	80-120
85	4-Chlorotoluene	50.0	52.1	104.30	80-120
86	tert-Butylbenzene	50.0	51.1	102.30	80-120
87	Pentachloroethane	50.0	49.3	98.62	80-120
88	1,2,4-Trimethylben	50.0	49.0	97.93	80-120
89	P-Isopropyltoluene	50.0	52.5	104.97	80-120
90	1,3-Dichlorobenzen	50.0	51.8	103.62	80-120
92	1,4-Dichlorobenzen	50.0	47.3	94.56	80-120
93	N-Butylbenzene	50.0	49.2	98.50	80-120
94	sec-Butylbenzene	50.0	50.7	101.39	80-120
95	1,2-Dichlorobenzen	50.0	52.6	105.28	80-120
96	1,2-Dibromo-3-Chlo	50.0	47.2	94.47	80-120
97	1,3,5-Trichloroben	50.0	46.6	93.15	80-120
98	Hexachlorobutadien	50.0	46.7	93.49	80-120
99	1,2,4-Trichloroben	50.0	47.2	94.44	80-120
100	1,2,3-Trimethylben	50.0	48.7	97.36	80-120
101	Naphthalene	50.0	46.2	92.42	80-120

Data File: \\target_server\gg\chem\gcms-d.i\D092812.b\D2002A.D
Report Date: 30-Sep-2012 19:40

	SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	102 1,2,3-Trichloroben	50.0	50.6	101.13	80-120
	103 Methyl Acetate	50.0	48.0	95.99	80-120
	104 Methylcyclohexane	50.0	49.2	98.32	80-120
M	153 Total Alkylbenzene	350	352	100.68	80-120

	SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$	37 Dibromofluorometha	50.0	50.1	100.17	68-128
$	45 1,2-Dichloroethane	50.0	48.9	97.75	67-135
$	55 Toluene-D8	50.0	50.4	100.86	65-128
$	76 P-Bromofluorobenze	50.0	49.3	98.53	56-133

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, , **SDG:** SF6628
Lab ID : WG114264-8 **Analytical Date:** 10/02/12 10:24
Lab File ID : D2059.D **Instrument ID:** GCMS-D
Initial Calibration Date(s): 09/28/12 10:11 09/28/12 13:32

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1 Dichlorodifluoromethane	50.00000	46.52796	0.45084	0.010	-6.94409	20.00000	Linear	
2 Chloromethane	0.89006	0.74815	0.74815	0.100	-15.94390	20.00000	Averaged	
3 Vinyl chloride	0.67732	0.64216	0.64216	0.010	-5.19145	20.00000	Averaged	
4 Bromomethane	50.00000	38.19424	0.19413	0.010	-23.61152	20.00000	Quadratic	*
5 Chloroethane	0.43354	0.40820	0.40820	0.010	-5.84413	20.00000	Averaged	
6 Trichlorofluoromethane	0.83296	0.87113	0.87113	0.010	4.58141	20.00000	Averaged	
9 1,1-Dichloroethene	0.43369	0.40416	0.40416	0.100	-6.81043	20.00000	Averaged	
10 Carbon Disulfide	1.62498	1.57932	1.57932	0.010	-2.80946	20.00000	Averaged	
11 Freon-113	0.30952	0.34089	0.34089	0.010	10.13747	20.00000	Averaged	
14 Methylene Chloride	0.55746	0.53342	0.53342	0.010	-4.31243	20.00000	Averaged	
15 Acetone	0.14471	0.13688	0.13688	0.010	-5.41559	20.00000	Averaged	
17 trans-1,2-Dichloroethene	0.54137	0.49368	0.49368	0.010	-8.80879	20.00000	Averaged	
19 Methyl tert-butyl ether	1.31833	1.28459	1.28459	0.010	-2.55904	20.00000	Averaged	
25 1,1-Dichloroethane	1.04751	1.00192	1.00192	0.100	-4.35270	20.00000	Averaged	
29 cis-1,2-Dichloroethene	0.55668	0.53737	0.53737	0.010	-3.46921	20.00000	Averaged	
33 Bromochloromethane	0.23680	0.23361	0.23361	0.010	-1.34885	20.00000	Averaged	
34 Chloroform	0.93784	0.92527	0.92527	0.010	-1.34102	20.00000	Averaged	
35 Carbon Tetrachloride	0.41776	0.39415	0.39415	0.010	-5.65142	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.84329	0.78499	0.78499	0.010	-6.91323	20.00000	Averaged	
40 2-Butanone	0.24378	0.23475	0.23475	0.010	-3.70415	20.00000	Averaged	
41 Benzene	1.35688	1.28304	1.28304	0.010	-5.44199	20.00000	Averaged	
43 Cyclohexane	0.99760	0.95145	0.95145	0.010	-4.62596	20.00000	Averaged	
47 1,2-Dichloroethane	0.50088	0.48682	0.48682	0.010	-2.80742	20.00000	Averaged	
48 Trichloroethene	0.37251	0.33651	0.33651	0.010	-9.66460	20.00000	Averaged	
51 1,2-Dichloropropane	0.34814	0.34048	0.34048	0.010	-2.20208	20.00000	Averaged	
52 Bromodichloromethane	0.43355	0.44455	0.44455	0.010	2.53735	20.00000	Averaged	
53 cis-1,3-dichloropropene	0.55051	0.55789	0.55789	0.010	1.34200	20.00000	Averaged	
54 1,4-Dioxane	0.00593	0.00067	0.00067	0.001	-88.73266	20.00000	Averaged	*
57 Toluene	0.87898	0.89060	0.89060	0.010	1.32214	20.00000	Averaged	
58 4-methyl-2-pentanone	250	260	0.35703	0.010	3.94055	20.00000	Linear	
59 Tetrachloroethene	0.30685	0.27081	0.27081	0.010	-11.74444	20.00000	Averaged	
60 trans-1,3-Dichloropropene	50.00000	47.22957	0.47664	0.010	-5.54086	20.00000	Linear	
61 1,1,2-Trichloroethane	0.23819	0.23453	0.23453	0.010	-1.53808	20.00000	Averaged	
62 Dibromochloromethane	50.00000	43.90965	0.33477	0.010	-12.18071	20.00000	Linear	
64 1,2-Dibromoethane	0.28935	0.28192	0.28192	0.010	-2.56697	20.00000	Averaged	
65 2-Hexanone	250	231	0.24485	0.010	-7.57630	20.00000	Linear	
67 Chlorobenzene	0.98344	0.91482	0.91482	0.300	-6.97760	20.00000	Averaged	
68 Ethylbenzene	0.56534	0.50765	0.50765	0.010	-10.20461	20.00000	Averaged	
71 m+p-Xylenes	0.68724	0.62859	0.62859	0.010	-8.53380	20.00000	Averaged	
72 o-Xylene	0.63302	0.59156	0.59156	0.010	-6.54928	20.00000	Averaged	
73 Styrene	1.09994	1.08169	1.08169	0.010	-1.65921	20.00000	Averaged	

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, , **SDG:** SF6628
Lab ID : WG114264-8 **Analytical Date:** 10/02/12 10:24
Lab File ID : D2059.D **Instrument ID:** GCMS-D
Initial Calibration Date(s): 09/28/12 10:11 09/28/12 13:32

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
74 Bromoform	50.00000	43.78981	0.21258	0.100	-12.42038	20.00000	Linear
75 Isopropylbenzene	2.79999	2.54090	2.54090	0.010	-9.25329	20.00000	Averaged
80 N-Propylbenzene	3.43918	3.05526	3.05526	0.010	-11.16305	20.00000	Averaged
81 1,1,2,2-Tetrachloroethane	0.74588	0.66928	0.66928	0.300	-10.26974	20.00000	Averaged
82 1,3,5-Trimethylbenzene	2.45260	2.27985	2.27985	0.010	-7.04362	20.00000	Averaged
85 4-Chlorotoluene	2.15560	1.95430	1.95430	0.010	-9.33880	20.00000	Averaged
86 tert-Butylbenzene	2.30811	2.17122	2.17122	0.010	-5.93077	20.00000	Averaged
88 1,2,4-Trimethylbenzene	2.43173	2.29211	2.29211	0.010	-5.74178	20.00000	Averaged
89 P-Isopropyltoluene	2.46238	2.24918	2.24918	0.010	-8.65828	20.00000	Averaged
90 1,3-Dichlorobenzene	1.36063	1.26898	1.26898	0.010	-6.73579	20.00000	Averaged
92 1,4-Dichlorobenzene	1.50693	1.39688	1.39688	0.010	-7.30299	20.00000	Averaged
93 N-Butylbenzene	2.36683	2.18724	2.18724	0.010	-7.58778	20.00000	Averaged
94 sec-Butylbenzene	3.01776	2.67623	2.67623	0.010	-11.31742	20.00000	Averaged
95 1,2-Dichlorobenzene	1.28487	1.21087	1.21087	0.010	-5.75914	20.00000	Averaged
96 1,2-Dibromo-3-Chloropropane	50.00000	41.81534	0.10200	0.010	-16.36933	20.00000	Linear
99 1,2,4-Trichlorobenzene	0.75566	0.70225	0.70225	0.010	-7.06812	20.00000	Averaged
101 Naphthalene	50.00000	45.15733	1.31612	0.010	-9.68534	20.00000	Linear
102 1,2,3-Trichlorobenzene	0.61858	0.58671	0.58671	0.010	-5.15142	20.00000	Averaged
103 Methyl Acetate	0.42353	0.40897	0.40897	0.010	-3.43726	20.00000	Averaged
104 Methylcyclohexane	0.83099	0.89743	0.89743	0.010	7.99489	20.00000	Averaged
37 Dibromofluoromethane	0.49513	0.50572	0.50572	0.010	2.13897	20.00000	Averaged
45 1,2-Dichloroethane-D4	0.66845	0.66758	0.66758	0.010	-0.12961	20.00000	Averaged
55 Toluene-D8	1.20301	1.21615	1.21615	0.010	1.09221	20.00000	Averaged
76 P-Bromofluorobenzene	0.49714	0.50334	0.50334	0.010	1.24654	20.00000	Averaged

*** = Compound out of QC criteria**

Data File: \\target_server\GG\chem\gcms-d.i\D100212.b\D2059.D
Report Date: 15-Oct-2012 11:08

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D100212.b\D2059.D
Lab Smp Id: WG114264-8 Client Smp ID: ontinuing Calibrati
Inj Date : 02-OCT-2012 10:24 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114264-8,SF6628
Misc Info : WG114264,WG114145-4,SF6628-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D100212.b\D826A10.m
Meth Date : 15-Oct-2012 11:00 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 1 Continuing Calibration Sample
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	2.094	2.108	(0.259)	243777	50.0000	46.5	
2	Chloromethane	50	2.330	2.344	(0.288)	404536	50.0000	42.0	
3	Vinyl chloride	62	2.430	2.444	(0.301)	347223	50.0000	47.4	
4	Bromomethane	94	2.823	2.844	(0.349)	104969	50.0000	38.2	
5	Chloroethane	64	2.995	3.009	(0.370)	220722	50.0000	47.1	
6	Trichlorofluoromethane	101	3.174	3.195	(0.393)	471030	50.0000	52.3	
7	Diethyl Ether	59	3.588	3.602	(0.444)	276424	50.0000	52.6	
8	Tertiary-butyl alcohol	59	5.869	5.890	(0.726)	122922	250.000	260	
9	1,1-Dichloroethene	96	3.860	3.874	(0.477)	218534	50.0000	46.6	
10	Carbon Disulfide	76	3.896	3.917	(0.482)	853963	50.0000	48.6	
11	Freon-113	151	3.924	3.945	(0.485)	184326	50.0000	55.1	
12	Iodomethane	142	4.053	4.074	(0.501)	97736	50.0000	29.3	
13	Acrolein	56	4.339	4.360	(0.537)	125025	250.000	241	
14	Methylene Chloride	84	4.732	4.761	(0.585)	288427	50.0000	47.8	
15	Acetone	43	4.811	4.832	(0.595)	370058	250.000	236	
16	Isobutyl Alcohol	43	8.264	8.286	(1.022)	93747	1000.00	662	
17	trans-1,2-Dichloroethene	96	5.011	5.039	(0.620)	266942	50.0000	45.6	
18	Allyl Chloride	41	4.568	4.589	(0.565)	549657	50.0000	50.2	
19	Methyl tert-butyl ether	73	5.218	5.240	(0.645)	1389196	100.000	97.4	
20	Acetonitrile	39	5.576	5.597	(0.690)	72305	500.000	518	
21	Di-isopropyl ether	45	5.869	5.890	(0.726)	1306833	50.0000	52.9	
22	Chloroprene	53	5.984	6.005	(0.740)	641904	50.0000	50.2	
23	Propionitrile	54	7.971	7.992	(0.986)	377720	500.000	527	
24	Methacrylonitrile	41	8.007	8.028	(0.990)	2251647	500.000	554	

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Report Date: 15-Oct-2012 11:08

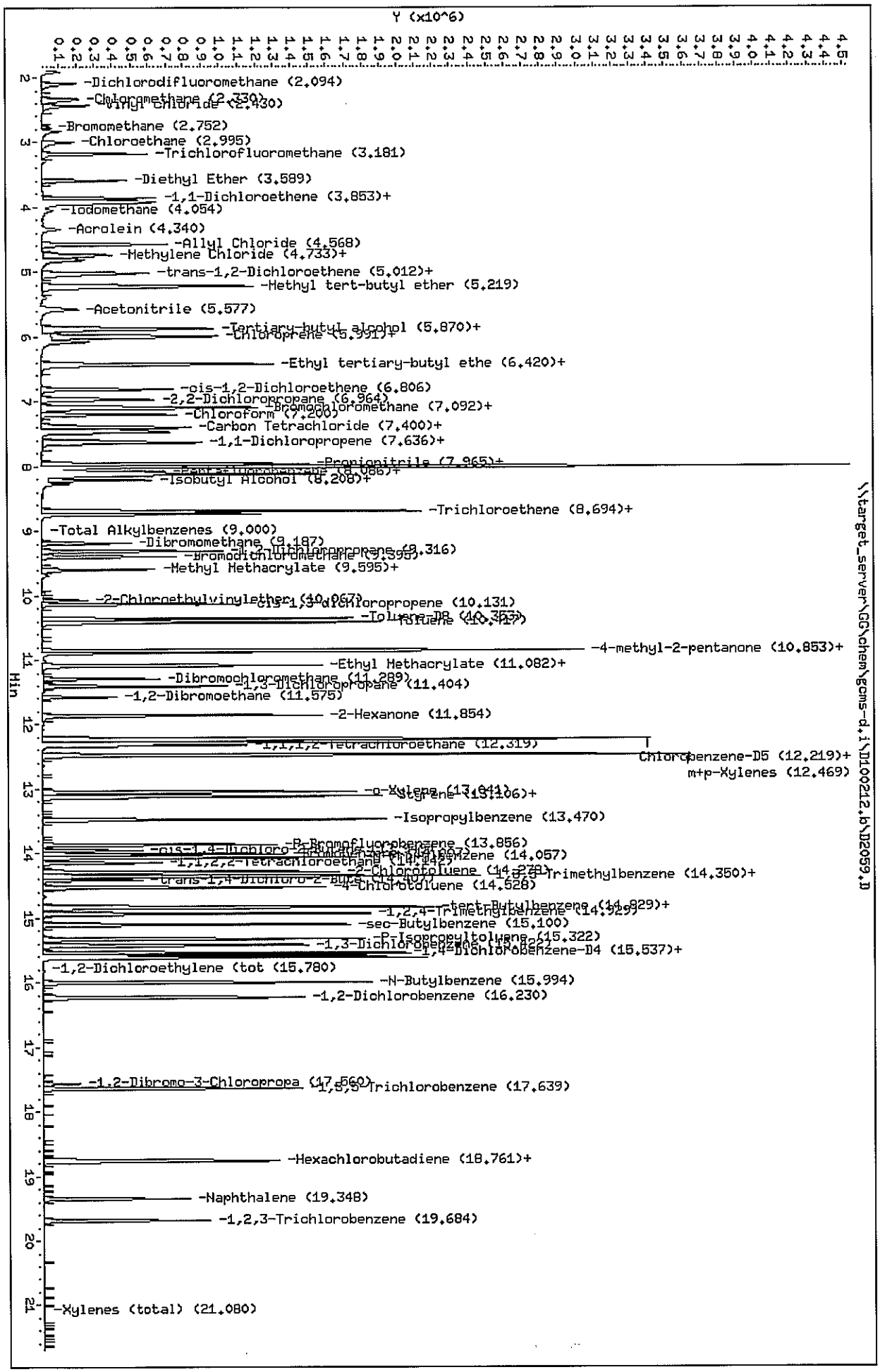
			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	6.012	6.033	(0.744)	541750	50.0000	47.8	
	26	Acrylonitrile	52	6.077	6.098	(0.752)	221360	250.000	244	
	27	Ethyl tertiary-butyl ether	59	6.427	6.441	(0.795)	952039	50.0000	51.6	
	28	Vinyl Acetate	43	6.420	6.441	(0.735)	808562	50.0000	50.0	
	29	cis-1,2-Dichloroethene	96	6.806	6.827	(0.842)	290561	50.0000	48.3	
M	30	1,2-Dichloroethylene (total)	96				557503	50.0000	(a)	
	31	Methyl Methacrylate	41	9.594	9.615	(1.098)	308889	50.0000	48.4	
	32	2,2-Dichloropropane	77	6.963	6.984	(0.861)	361360	50.0000	43.5	
	33	Bromochloromethane	128	7.078	7.099	(0.875)	126315	50.0000	49.3	
	34	Chloroform	83	7.199	7.220	(0.890)	500305	50.0000	49.3	
	35	Carbon Tetrachloride	117	7.378	7.399	(0.845)	347947	50.0000	47.2	
	36	Tetrahydrofuran	42	7.399	7.420	(0.915)	418913	250.000	251	
$	37	Dibromofluoromethane	113	7.442	7.463	(0.920)	273448	50.0000	51.1	
	38	1,1,1-Trichloroethane	97	7.471	7.492	(0.924)	424455	50.0000	46.5	
	39	1,1-Dichloropropene	75	7.635	7.656	(0.874)	382502	50.0000	45.4	
	40	2-Butanone	43	7.607	7.628	(0.941)	634660	250.000	241	
	41	Benzene	78	7.957	7.978	(0.911)	1132627	50.0000	47.3	
*	42	Pentafluorobenzene	168	8.086	8.100	(1.000)	540714	50.0000		
	43	Cyclohexane	56	7.099	7.120	(0.878)	514465	50.0000	47.7	
	44	Ethyl Methacrylate	69	11.089	11.103	(1.269)	357397	50.0000	49.3	
$	45	1,2-Dichloroethane-D4	65	8.121	8.143	(1.004)	360971	50.0000	49.9	
	46	Tertiary-amyl methyl ether	73	8.129	8.150	(1.005)	723221	50.0000	51.9	
	47	1,2-Dichloroethane	62	8.207	8.228	(0.939)	429750	50.0000	48.6	
	48	Trichloroethene	95	8.693	8.715	(0.995)	297060	50.0000	45.2	
*	49	1,4-Difluorobenzene	114	8.736	8.757	(1.000)	882767	50.0000		
	50	Dibromomethane	93	9.187	9.208	(1.052)	170225	50.0000	48.6	
	51	1,2-Dichloropropane	63	9.316	9.329	(1.066)	300563	50.0000	48.9	
	52	Bromodichloromethane	83	9.394	9.415	(1.075)	392432	50.0000	51.3	
	53	cis-1,3-dichloropropene	75	10.131	10.152	(1.160)	492491	50.0000	50.7	
	54	1,4-Dioxane	88	9.637	9.651	(1.103)	11806	1000.00	113	
$	55	Toluene-D8	98	10.352	10.373	(1.185)	1073574	50.0000	50.5	
	56	2-Chloroethylvinylether	63	10.066	10.087	(1.152)	85116	50.0000	54.2	
	57	Toluene	92	10.417	10.431	(1.192)	786194	50.0000	50.7	
	58	4-methyl-2-pentanone	43	10.846	10.867	(1.241)	1575863	250.000	260	
	59	Tetrachloroethene	164	10.860	10.881	(0.889)	232231	50.0000	44.1	
	60	trans-1,3-Dichloropropene	75	10.889	10.910	(1.246)	420766	50.0000	47.2	
	61	1,1,2-Trichloroethane	83	11.074	11.096	(1.268)	207031	50.0000	49.2	
	62	Dibromochloromethane	129	11.289	11.310	(0.924)	287074	50.0000	43.9	
	63	1,3-Dichloropropane	76	11.403	11.424	(0.933)	468829	50.0000	47.2	
	64	1,2-Dibromoethane	107	11.575	11.596	(1.325)	248872	50.0000	48.7	
	65	2-Hexanone	43	11.854	11.875	(0.970)	1049845	250.000	231	
*	66	Chlorobenzene-D5	117	12.218	12.240	(1.000)	857531	50.0000		
	67	Chlorobenzene	112	12.240	12.261	(1.002)	784485	50.0000	46.5	
	152	1-Chlorohexane	91	12.218	12.240	(1.000)	415698	50.0000	42.1	
	68	Ethylbenzene	106	12.283	12.304	(1.005)	435328	50.0000	44.9	
	69	1,1,1,2-Tetrachloroethane	131	12.319	12.340	(1.008)	281289	50.0000	49.4	
M	70	Xylenes (total)	106				1585350	150.000	(a)	
	71	m+p-Xylenes	106	12.469	12.490	(1.020)	1078067	100.000	91.5	
	72	o-Xylene	106	13.041	13.062	(1.067)	507283	50.0000	46.7	
	73	Styrene	104	13.105	13.126	(1.073)	927583	50.0000	49.2	
	74	Bromoform	173	13.134	13.155	(1.075)	182295	50.0000	43.8	
	75	Isopropylbenzene	105	13.470	13.491	(0.867)	1259348	50.0000	45.4	
$	76	P-Bromofluorobenzene	95	13.856	13.877	(1.586)	444329	50.0000	50.6	
	77	cis-1,4-Dichloro-2-Butene	53	13.949	13.970	(0.898)	130246	50.0000	48.0	

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Report Date: 15-Oct-2012 11:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.406	14.427	(0.927)	127778	50.0000	48.0	
79	Bromobenzene	156	14.006	14.027	(0.902)	341804	50.0000	46.9	
80	N-Propylbenzene	91	14.056	14.077	(0.905)	1514284	50.0000	44.4	
81	1,1,2,2-Tetrachloroethane	83	14.142	14.163	(0.910)	331716	50.0000	44.9	
82	1,3,5-Trimethylbenzene	105	14.349	14.370	(0.924)	1129965	50.0000	46.5	
83	2-Chlorotoluene	91	14.278	14.299	(0.919)	952410	50.0000	45.9	
84	1,2,3-Trichloropropane	75	14.342	14.363	(0.923)	272239	50.0000	45.2	
85	4-Chlorotoluene	91	14.528	14.542	(0.935)	968610	50.0000	45.3	
86	tert-Butylbenzene	119	14.828	14.842	(0.954)	1076125	50.0000	47.0	
87	Pentachloroethane	117	14.843	14.864	(0.955)	262401	50.0000	52.6	
88	1,2,4-Trimethylbenzene	105	14.936	14.949	(0.961)	1136040	50.0000	47.1	
89	P-Isopropyltoluene	119	15.322	15.343	(0.986)	1114764	50.0000	45.7	
90	1,3-Dichlorobenzene	146	15.422	15.443	(0.993)	628944	50.0000	46.6	
* 91	1,4-Dichlorobenzene-D4	152	15.536	15.557	(1.000)	495631	50.0000		
92	1,4-Dichlorobenzene	146	15.558	15.579	(1.001)	692335	50.0000	46.3	
93	N-Butylbenzene	91	15.994	16.015	(1.029)	1084064	50.0000	46.2	
94	sec-Butylbenzene	105	15.100	15.114	(0.972)	1326423	50.0000	44.3	
95	1,2-Dichlorobenzene	146	16.230	16.251	(1.045)	600146	50.0000	47.1	
96	1,2-Dibromo-3-Chloropropane	75	17.560	17.581	(1.130)	50555	50.0000	41.8	
97	1,3,5-Trichlorobenzene	180	17.638	17.659	(1.135)	456671	50.0000	49.4	
98	Hexachlorobutadiene	225	18.747	18.760	(1.207)	147043	50.0000	43.3	
99	1,2,4-Trichlorobenzene	180	18.768	18.789	(1.208)	348058	50.0000	46.5	
100	1,2,3-Trimethylbenzene	105	15.608	15.629	(1.005)	1264531	50.0000	51.3	
101	Naphthalene	128	19.347	19.368	(1.245)	652309	50.0000	45.2	
102	1,2,3-Trichlorobenzene	180	19.683	19.704	(1.267)	290794	50.0000	47.4	
103	Methyl Acetate	43	5.047	5.068	(0.624)	221138	50.0000	48.3	
104	Methylcyclohexane	83	8.693	8.707	(1.075)	485252	50.0000	54.0	
M 153	Total Alkylbenzenes	100				8381665	50.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).


Y (x10^6)
Min
-Dichlorodifluoromethane (2.094)
-Chloromethane (2.330)
-Vinyl Chloride (2.430)
-Bromomethane (2.752)
-Chloroethane (2.995)
-Trichlorofluoromethane (3.181)
-Diethyl Ether (3.589)
-1,1-Dichloroethene (3.853)+
-Iodomethane (4.054)
-Acrolein (4.340)
-Allyl Chloride (4.568)
-Methylene Chloride (4.733)+
-trans-1,2-Dichloroethene (5.012)+
-Methyl tert-butyl ether (5.219)
-Acetonitrile (5.577)
-Tertiary-butyl alcohol (5.870)+
-Chloroprene (5.991)+
-Ethyl tertiary-butyl ethe (6.420)+
-cis-1,2-Dichloroethene (6.806)
-2,2-Dichloropropane (6.964)
-Bromochloromethane (7.092)+
-Chloroform (7.200)
-Carbon Tetrachloride (7.400)+
-1,1-Dichloropropene (7.636)+
-Propionitrile (7.965)+
-Isobutyl Alcohol (8.208)+
-Trichloroethene (8.694)+
-Total Alkylbenzenes (9.000)
-Dibromomethane (9.187)
-Bromodichloromethane (9.395)+
-Methyl Methacrylate (9.595)+
-2-Chloroethylvinylether (10.067)
cis-1,3-Dichloropropene (10.131)
-Toluene-D8 (10.353)+
Toluene (10.417)
-4-methyl-2-pentanone (10.853)+
-Ethyl Methacrylate (11.082)+
-Dibromochloromethane (11.289)
-1,3-Dichloropropane (11.404)
-1,2-Dibromoethane (11.575)
-2-Hexanone (11.854)
-1,1,1,2-Tetrachloroethane (12.319)
Chlorobenzene-D5 (12.219)+
m+p-Xylenes (12.469)
-o-Xylene (13.041)
Styrene (13.106)+
-Isopropylbenzene (13.470)
-Bromofluorobenzene (13.856)
-cis-1,4-Dichloro-2-Butene (14.057)
-1,1,2,2-Tetrachloroethane (14.207)
-2-Chlorotoluene (14.278)
1,2,4-Trimethylbenzene (14.350)+
-trans-1,4-Dichloro-2-Butene (14.407)
-4-Chlorotoluene (14.528)
-tert-Butylbenzene (14.829)+
-1,2,4-Trimethylbenzene (14.929)
-sec-Butylbenzene (15.100)
-P-Isopropyltoluene (15.322)
-1,3-Dichlorobenzene (15.426)
-1,4-Dichlorobenzene-D4 (15.537)+
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (15.994)
-1,2-Dichlorobenzene (16.230)
-1,2-Dibromo-3-Chloroprop (17.560)
1,3,5-Trichlorobenzene (17.639)
-Hexachlorobutadiene (18.761)+
-Naphthalene (19.348)
-1,2,3-Trichlorobenzene (19.684)
-Xylenes (total) (21.080)
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Data File: \\target_server\GC\chem\gcms-d.i\D100212.b\D2059.D
Date : 02-OCT-2012 10:24
Client ID: ontinuing Calibrati
Sample Info: WG114264-8,SF6628
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: REC
Column diameter: 0.18

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, , **SDG:** SF6628
Lab ID : WG114326-4 **Analytical Date:** 10/03/12 09:54
Lab File ID : D2099.D **Instrument ID:** GCMS-D
Initial Calibration Date(s): 09/28/12 10:11 09/28/12 13:32

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1 Dichlorodifluoromethane	50.00000	46.67599	0.45225	0.010	-6.64803	20.00000	Linear	
2 Chloromethane	0.89006	0.79598	0.79598	0.100	-10.56975	20.00000	Averaged	
3 Vinyl chloride	0.67732	0.68401	0.68401	0.010	0.98831	20.00000	Averaged	
4 Bromomethane	50.00000	56.70725	0.29409	0.010	13.41450	20.00000	Quadratic	
5 Chloroethane	0.43354	0.44144	0.44144	0.010	1.82291	20.00000	Averaged	
6 Trichlorofluoromethane	0.83296	0.97654	0.97654	0.010	17.23675	20.00000	Averaged	
9 1,1-Dichloroethene	0.43369	0.42539	0.42539	0.100	-1.91590	20.00000	Averaged	
10 Carbon Disulfide	1.62498	1.61945	1.61945	0.010	-0.33988	20.00000	Averaged	
11 Freon-113	0.30952	0.37111	0.37111	0.010	19.89933	20.00000	Averaged	
14 Methylene Chloride	0.55746	0.54521	0.54521	0.010	-2.19659	20.00000	Averaged	
15 Acetone	0.14471	0.13266	0.13266	0.010	-8.33313	20.00000	Averaged	
17 trans-1,2-Dichloroethene	0.54137	0.50833	0.50833	0.010	-6.10435	20.00000	Averaged	
19 Methyl tert-butyl ether	1.31833	1.19898	1.19898	0.010	-9.05351	20.00000	Averaged	
25 1,1-Dichloroethane	1.04751	1.03598	1.03598	0.100	-1.10116	20.00000	Averaged	
29 cis-1,2-Dichloroethene	0.55668	0.56534	0.56534	0.010	1.55624	20.00000	Averaged	
33 Bromochloromethane	0.23680	0.23839	0.23839	0.010	0.66889	20.00000	Averaged	
34 Chloroform	0.93784	0.95660	0.95660	0.010	1.99943	20.00000	Averaged	
35 Carbon Tetrachloride	0.41776	0.40916	0.40916	0.010	-2.05938	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.84329	0.81751	0.81751	0.010	-3.05740	20.00000	Averaged	
40 2-Butanone	0.24378	0.22688	0.22688	0.010	-6.93339	20.00000	Averaged	
41 Benzene	1.35688	1.31786	1.31786	0.010	-2.87627	20.00000	Averaged	
43 Cyclohexane	0.99760	1.00918	1.00918	0.010	1.16022	20.00000	Averaged	
47 1,2-Dichloroethane	0.50088	0.48376	0.48376	0.010	-3.41851	20.00000	Averaged	
48 Trichloroethene	0.37251	0.33218	0.33218	0.010	-10.82636	20.00000	Averaged	
51 1,2-Dichloropropane	0.34814	0.34785	0.34785	0.010	-0.08468	20.00000	Averaged	
52 Bromodichloromethane	0.43355	0.44442	0.44442	0.010	2.50875	20.00000	Averaged	
53 cis-1,3-dichloropropene	0.55051	0.56657	0.56657	0.010	2.91705	20.00000	Averaged	
54 1,4-Dioxane	0.00593	0.00075	0.00075	0.001	-87.38554	20.00000	Averaged	*
57 Toluene	0.87898	0.85845	0.85845	0.010	-2.33542	20.00000	Averaged	
58 4-methyl-2-pentanone	250	249	0.34228	0.010	-0.55963	20.00000	Linear	
59 Tetrachloroethene	0.30685	0.28311	0.28311	0.010	-7.73740	20.00000	Averaged	
60 trans-1,3-Dichloropropene	50.00000	45.95922	0.46348	0.010	-8.08157	20.00000	Linear	
61 1,1,2-Trichloroethane	0.23819	0.23422	0.23422	0.010	-1.66539	20.00000	Averaged	
62 Dibromochloromethane	50.00000	43.24789	0.32949	0.010	-13.50423	20.00000	Linear	
64 1,2-Dibromoethane	0.28935	0.27657	0.27657	0.010	-4.41676	20.00000	Averaged	
65 2-Hexanone	250	218	0.23098	0.010	-12.88773	20.00000	Linear	
67 Chlorobenzene	0.98344	0.93155	0.93155	0.300	-5.27621	20.00000	Averaged	
68 Ethylbenzene	0.56534	0.51919	0.51919	0.010	-8.16343	20.00000	Averaged	
71 m+p-Xylenes	0.68724	0.63691	0.63691	0.010	-7.32285	20.00000	Averaged	
72 o-Xylene	0.63302	0.59678	0.59678	0.010	-5.72497	20.00000	Averaged	
73 Styrene	1.09994	1.08872	1.08872	0.010	-1.02000	20.00000	Averaged	

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, , **SDG:** SF6628
Lab ID : WG114326-4 **Analytical Date:** 10/03/12 09:54
Lab File ID : D2099.D **Instrument ID:** GCMS-D
Initial Calibration Date(s): 09/28/12 10:11 09/28/12 13:32

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
74 Bromoform	50.00000	42.83721	0.20767	0.100	-14.32558	20.00000	Linear	
75 Isopropylbenzene	2.79999	2.50213	2.50213	0.010	-10.63777	20.00000	Averaged	
80 N-Propylbenzene	3.43918	3.09499	3.09499	0.010	-10.00800	20.00000	Averaged	
81 1,1,2,2-Tetrachloroethane	0.74588	0.62269	0.62269	0.300	-16.51654	20.00000	Averaged	
82 1,3,5-Trimethylbenzene	2.45260	2.26649	2.26649	0.010	-7.58840	20.00000	Averaged	
85 4-Chlorotoluene	2.15560	1.92469	1.92469	0.010	-10.71208	20.00000	Averaged	
86 tert-Butylbenzene	2.30811	2.12539	2.12539	0.010	-7.91658	20.00000	Averaged	
88 1,2,4-Trimethylbenzene	2.43173	2.27129	2.27129	0.010	-6.59804	20.00000	Averaged	
89 P-Isopropyltoluene	2.46238	2.24885	2.24885	0.010	-8.67180	20.00000	Averaged	
90 1,3-Dichlorobenzene	1.36063	1.25004	1.25004	0.010	-8.12774	20.00000	Averaged	
92 1,4-Dichlorobenzene	1.50693	1.37889	1.37889	0.010	-8.49677	20.00000	Averaged	
93 N-Butylbenzene	2.36683	2.20382	2.20382	0.010	-6.88729	20.00000	Averaged	
94 sec-Butylbenzene	3.01776	2.68843	2.68843	0.010	-10.91331	20.00000	Averaged	
95 1,2-Dichlorobenzene	1.28487	1.17961	1.17961	0.010	-8.19215	20.00000	Averaged	
96 1,2-Dibromo-3-Chloropropane	50.00000	36.85687	0.08930	0.010	-26.28625	20.00000	Linear	*
99 1,2,4-Trichlorobenzene	0.75566	0.66629	0.66629	0.010	-11.82711	20.00000	Averaged	
101 Naphthalene	50.00000	40.32440	1.17160	0.010	-19.35121	20.00000	Linear	
102 1,2,3-Trichlorobenzene	0.61858	0.54338	0.54338	0.010	-12.15771	20.00000	Averaged	
103 Methyl Acetate	0.42353	0.37430	0.37430	0.010	-11.62350	20.00000	Averaged	
104 Methylcyclohexane	0.83099	0.94743	0.94743	0.010	14.01154	20.00000	Averaged	
37 Dibromofluoromethane	0.49513	0.50949	0.50949	0.010	2.90107	20.00000	Averaged	
45 1,2-Dichloroethane-D4	0.66845	0.66864	0.66864	0.010	0.02886	20.00000	Averaged	
55 Toluene-D8	1.20301	1.20769	1.20769	0.010	0.38931	20.00000	Averaged	
76 P-Bromofluorobenzene	0.49714	0.49560	0.49560	0.010	-0.30882	20.00000	Averaged	

*** = Compound out of QC criteria**

Data File: \\target_server\GG\chem\gcms-d.i\D100312.b\D2099.D
Report Date: 15-Oct-2012 11:20

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D100312.b\D2099.D
Lab Smp Id: WG114326-4 Client Smp ID: ontinuing Calibrati
Inj Date : 03-OCT-2012 09:54 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114326-4,SF6628
Misc Info : WG114326,WG114145-4,SF6628-7
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-d.i\D100312.b\D826A10.m
Meth Date : 15-Oct-2012 11:10 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 1 Continuing Calibration Sample
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	2.093	2.108	(0.259)	213213	50.0000	46.7	
2 Chloromethane	50	2.329	2.344	(0.288)	375267	50.0000	44.7	
3 Vinyl chloride	62	2.429	2.444	(0.300)	322478	50.0000	50.5	
4 Bromomethane	94	2.829	2.844	(0.350)	138651	50.0000	56.7	
5 Chloroethane	64	2.994	3.009	(0.370)	208119	50.0000	50.9	
6 Trichlorofluoromethane	101	3.179	3.195	(0.393)	460390	50.0000	58.6	
7 Diethyl Ether	59	3.587	3.602	(0.444)	231623	50.0000	50.5	
8 Tertiary-butyl alcohol	59	5.868	5.890	(0.726)	105379	250.000	256	
9 1,1-Dichloroethene	96	3.859	3.874	(0.477)	200548	50.0000	49.0	
10 Carbon Disulfide	76	3.894	3.917	(0.482)	763492	50.0000	49.8	
11 Freon-113	151	3.930	3.945	(0.486)	174959	50.0000	59.9	
12 Iodomethane	142	4.059	4.074	(0.502)	126583	50.0000	44.0	
13 Acrolein	56	4.338	4.360	(0.537)	110433	250.000	244	
14 Methylene Chloride	84	4.738	4.761	(0.586)	257041	50.0000	48.9	
15 Acetone	43	4.810	4.832	(0.595)	312702	250.000	229	
16 Isobutyl Alcohol	43	8.270	8.286	(1.023)	83655	1000.00	677	
17 trans-1,2-Dichloroethene	96	5.017	5.039	(0.621)	239650	50.0000	46.9	
18 Allyl Chloride	41	4.567	4.589	(0.565)	478299	50.0000	50.2	
19 Methyl tert-butyl ether	73	5.217	5.240	(0.645)	1130514	100.000	90.9	
20 Acetonitrile	39	5.575	5.597	(0.690)	60561	500.000	498	
21 Di-isopropyl ether	45	5.868	5.890	(0.726)	1088398	50.0000	50.5	
22 Chloroprene	53	5.989	6.005	(0.741)	581243	50.0000	52.1	
23 Propionitrile	54	7.977	7.992	(0.987)	321032	500.000	514	
24 Methacrylonitrile	41	8.006	8.028	(0.990)	1922035	500.000	542	

Data File: \\target_server\GG\chem\gcms-d.i\D100312.b\D2099.D
Report Date: 15-Oct-2012 11:20

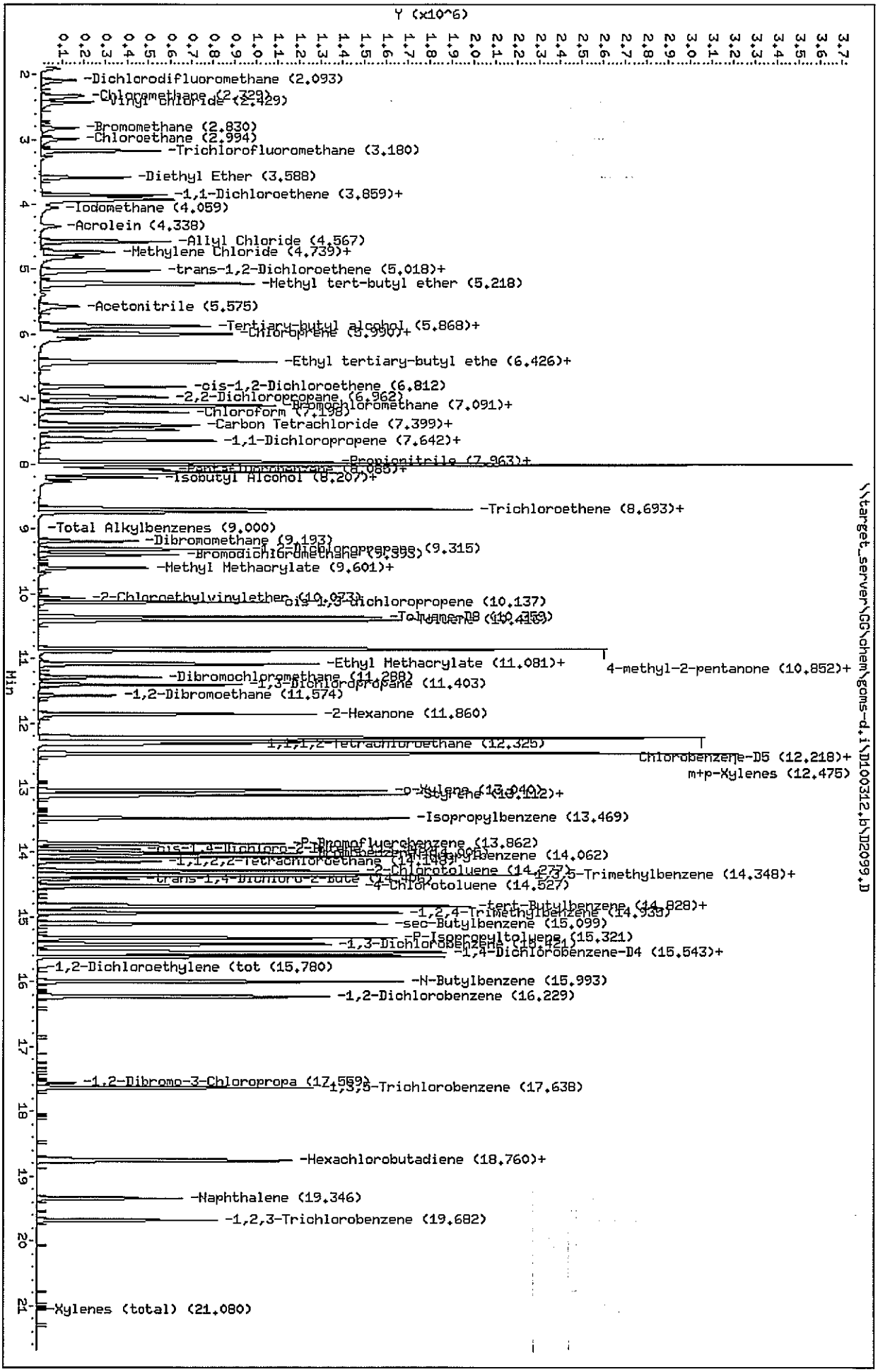
			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	6.011	6.033	(0.744)	488411	50.0000	49.4	
	26	Acrylonitrile	52	6.075	6.098	(0.751)	189277	250.000	239	
	27	Ethyl tertiary-butyl ether	59	6.426	6.441	(0.795)	777749	50.0000	48.4	
	28	Vinyl Acetate	43	6.426	6.441	(0.735)	692846	50.0000	48.4	
	29	cis-1,2-Dichloroethene	96	6.812	6.827	(0.843)	266530	50.0000	50.8	
M	30	1,2-Dichloroethylene (total)	96				506180	50.0000	(a)	
	31	Methyl Methacrylate	41	9.600	9.615	(1.098)	253010	50.0000	44.9	
	32	2,2-Dichloropropane	77	6.962	6.984	(0.861)	327458	50.0000	45.2	
	33	Bromochloromethane	128	7.083	7.099	(0.876)	112387	50.0000	50.3	
	34	Chloroform	83	7.198	7.220	(0.890)	450987	50.0000	51.0	
	35	Carbon Tetrachloride	117	7.384	7.399	(0.845)	319834	50.0000	49.0	
	36	Tetrahydrofuran	42	7.405	7.420	(0.916)	350704	250.000	241	
$	37	Dibromofluoromethane	113	7.441	7.463	(0.920)	240199	50.0000	51.4	
	38	1,1,1-Trichloroethane	97	7.470	7.492	(0.924)	385413	50.0000	48.5	
	39	1,1-Dichloropropene	75	7.641	7.656	(0.874)	355917	50.0000	47.7	
	40	2-Butanone	43	7.605	7.628	(0.941)	534805	250.000	233	
	41	Benzene	78	7.963	7.978	(0.911)	1030144	50.0000	48.6	
*	42	Pentafluorobenzene	168	8.084	8.100	(1.000)	471450	50.0000		
	43	Cyclohexane	56	7.098	7.120	(0.878)	475777	50.0000	50.6	
	44	Ethyl Methacrylate	69	11.088	11.103	(1.268)	290945	50.0000	45.4	
$	45	1,2-Dichloroethane-D4	65	8.120	8.143	(1.004)	315231	50.0000	50.0	
	46	Tertiary-amyl methyl ether	73	8.135	8.150	(1.006)	577248	50.0000	47.5	
	47	1,2-Dichloroethane	62	8.206	8.228	(0.939)	378147	50.0000	48.3	
	48	Trichloroethene	95	8.692	8.715	(0.994)	259661	50.0000	44.6	
*	49	1,4-Difluorobenzene	114	8.742	8.757	(1.000)	781682	50.0000		
	50	Dibromomethane	93	9.193	9.208	(1.052)	151726	50.0000	48.9	
	51	1,2-Dichloropropane	63	9.314	9.329	(1.065)	271908	50.0000	50.0	
	52	Bromodichloromethane	83	9.393	9.415	(1.074)	347398	50.0000	51.2	
	53	cis-1,3-dichloropropene	75	10.137	10.152	(1.159)	442874	50.0000	51.4	
	54	1,4-Dioxane	88	9.636	9.651	(1.102)	11704	1000.00	126	
$	55	Toluene-D8	98	10.358	10.373	(1.185)	944030	50.0000	50.2	
	56	2-Chloroethylvinylether	63	10.072	10.087	(1.152)	68929	50.0000	48.7	
	57	Toluene	92	10.415	10.431	(1.191)	671037	50.0000	48.8	
	58	4-methyl-2-pentanone	43	10.852	10.867	(1.241)	1337760	250.000	249	
	59	Tetrachloroethene	164	10.866	10.881	(0.889)	215255	50.0000	46.1	
	60	trans-1,3-Dichloropropene	75	10.887	10.910	(1.245)	362295	50.0000	46.0	
	61	1,1,2-Trichloroethane	83	11.080	11.096	(1.267)	183087	50.0000	49.2	
	62	Dibromochloromethane	129	11.288	11.310	(0.924)	250520	50.0000	43.2	
	63	1,3-Dichloropropane	76	11.402	11.424	(0.933)	409580	50.0000	46.5	
	64	1,2-Dibromoethane	107	11.574	11.596	(1.324)	216190	50.0000	47.8	
	65	2-Hexanone	43	11.860	11.875	(0.971)	878107	250.000	218	
*	66	Chlorobenzene-D5	117	12.217	12.240	(1.000)	760325	50.0000		
	67	Chlorobenzene	112	12.239	12.261	(1.002)	708281	50.0000	47.4	
	152	1-Chlorohexane	91	12.217	12.240	(1.000)	377555	50.0000	43.1	
	68	Ethylbenzene	106	12.282	12.304	(1.005)	394755	50.0000	45.9	
	69	1,1,1,2-Tetrachloroethane	131	12.324	12.340	(1.009)	255672	50.0000	50.6	
M	70	Xylenes (total)	106				1422264	150.000	(a)	
	71	m+p-Xylenes	106	12.475	12.490	(1.021)	968517	100.000	92.7	
	72	o-Xylene	106	13.040	13.062	(1.067)	453747	50.0000	47.1	
	73	Styrene	104	13.111	13.126	(1.073)	827782	50.0000	49.5	
	74	Bromoform	173	13.132	13.155	(1.075)	157900	50.0000	42.8	
	75	Isopropylbenzene	105	13.469	13.491	(0.867)	1132518	50.0000	44.7	
$	76	P-Bromofluorobenzene	95	13.862	13.877	(1.586)	387405	50.0000	49.8	
	77	cis-1,4-Dichloro-2-Butene	53	13.948	13.970	(0.898)	111046	50.0000	44.8	

Data File: \\target_server\GG\chem\gcms-d.i\D100312.b\D2099.D
Report Date: 15-Oct-2012 11:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.405	14.427	(0.927)	111087	50.0000	45.7	
79	Bromobenzene	156	14.012	14.027	(0.902)	304426	50.0000	45.8	
80	N-Propylbenzene	91	14.062	14.077	(0.905)	1400857	50.0000	45.0	
81	1,1,2,2-Tetrachloroethane	83	14.141	14.163	(0.910)	281841	50.0000	41.7	
82	1,3,5-Trimethylbenzene	105	14.348	14.370	(0.924)	1025861	50.0000	46.2	
83	2-Chlorotoluene	91	14.276	14.299	(0.919)	845856	50.0000	44.6	
84	1,2,3-Trichloropropane	75	14.341	14.363	(0.923)	236040	50.0000	42.9	
85	4-Chlorotoluene	91	14.527	14.542	(0.935)	871157	50.0000	44.6	
86	tert-Butylbenzene	119	14.827	14.842	(0.954)	961995	50.0000	46.0	
87	Pentachloroethane	117	14.841	14.864	(0.955)	229064	50.0000	50.2	
88	1,2,4-Trimethylbenzene	105	14.934	14.949	(0.961)	1028032	50.0000	46.7	
89	P-Isopropyltoluene	119	15.320	15.343	(0.986)	1017876	50.0000	45.7	
90	1,3-Dichlorobenzene	146	15.421	15.443	(0.993)	565793	50.0000	45.9	
* 91	1,4-Dichlorobenzene-D4	152	15.535	15.557	(1.000)	452621	50.0000		
92	1,4-Dichlorobenzene	146	15.556	15.579	(1.001)	624113	50.0000	45.8	
93	N-Butylbenzene	91	15.993	16.015	(1.029)	997495	50.0000	46.6	
94	sec-Butylbenzene	105	15.099	15.114	(0.972)	1216838	50.0000	44.5	
95	1,2-Dichlorobenzene	146	16.228	16.251	(1.045)	533917	50.0000	45.9	
96	1,2-Dibromo-3-Chloropropane	75	17.558	17.581	(1.130)	40419	50.0000	36.8	
97	1,3,5-Trichlorobenzene	180	17.637	17.659	(1.135)	396124	50.0000	46.9	
98	Hexachlorobutadiene	225	18.745	18.760	(1.207)	131924	50.0000	42.6	
99	1,2,4-Trichlorobenzene	180	18.767	18.789	(1.208)	301577	50.0000	44.1	
100	1,2,3-Trimethylbenzene	105	15.606	15.629	(1.005)	1102657	50.0000	49.0	
101	Naphthalene	128	19.346	19.368	(1.245)	530293	50.0000	40.3	
102	1,2,3-Trichlorobenzene	180	19.682	19.704	(1.267)	245943	50.0000	43.9	
103	Methyl Acetate	43	5.046	5.068	(0.624)	176465	50.0000	44.2	
104	Methylcyclohexane	83	8.692	8.707	(1.075)	446664	50.0000	57.0	
M 153	Total Alkylbenzenes	100				7648954	50.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).



Data File: \\target_server\GC\chem\gcms-d.i\D100312.b\D2099.D
Date : 03-OCT-2012 09:54
Client ID: ontinuing Calibrati
Sample Info: WG114326-4,SF6628
Purge Volume: 5.0
Column phase: RTX-VMS

\\target_server\GC\chem\gcms-d.i\D100312.b\D2099.D

Instrument: gcms-d.i
Operator: REC
Column diameter: 0.18

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, ,
SDG: SF6628
Lab ID : WG114400-4
Analytical Date: 10/04/12 10:33
Lab File ID : D2124.D
Instrument ID: GCMS-D
Initial Calibration Date(s): 09/28/12 10:11 09/28/12 13:32

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1 Dichlorodifluoromethane	50.00000	44.05120	0.42731	0.010	-11.89759	20.00000	Linear	
2 Chloromethane	0.89006	0.79013	0.79013	0.100	-11.22748	20.00000	Averaged	
3 Vinyl chloride	0.67732	0.65181	0.65181	0.010	-3.76629	20.00000	Averaged	
4 Bromomethane	50.00000	47.88090	0.24668	0.010	-4.23819	20.00000	Quadratic	
5 Chloroethane	0.43354	0.43329	0.43329	0.010	-0.05861	20.00000	Averaged	
6 Trichlorofluoromethane	0.83296	0.90923	0.90923	0.010	9.15571	20.00000	Averaged	
9 1,1-Dichloroethene	0.43369	0.38687	0.38687	0.100	-10.79557	20.00000	Averaged	
10 Carbon Disulfide	1.62498	1.49861	1.49861	0.010	-7.77669	20.00000	Averaged	
11 Freon-113	0.30952	0.34809	0.34809	0.010	12.46130	20.00000	Averaged	
14 Methylene Chloride	0.55746	0.51613	0.51613	0.010	-7.41299	20.00000	Averaged	
15 Acetone	0.14471	0.12698	0.12698	0.010	-12.25481	20.00000	Averaged	
17 trans-1,2-Dichloroethene	0.54137	0.47760	0.47760	0.010	-11.78028	20.00000	Averaged	
19 Methyl tert-butyl ether	1.31833	1.16125	1.16125	0.010	-11.91486	20.00000	Averaged	
25 1,1-Dichloroethane	1.04751	0.98415	0.98415	0.100	-6.04884	20.00000	Averaged	
29 cis-1,2-Dichloroethene	0.55668	0.52324	0.52324	0.010	-6.00611	20.00000	Averaged	
33 Bromochloromethane	0.23680	0.23564	0.23564	0.010	-0.49189	20.00000	Averaged	
34 Chloroform	0.93784	0.90025	0.90025	0.010	-4.00894	20.00000	Averaged	
35 Carbon Tetrachloride	0.41776	0.35600	0.35600	0.010	-14.78471	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.84329	0.75642	0.75642	0.010	-10.30115	20.00000	Averaged	
40 2-Butanone	0.24378	0.23076	0.23076	0.010	-5.33838	20.00000	Averaged	
41 Benzene	1.35688	1.23950	1.23950	0.010	-8.65125	20.00000	Averaged	
43 Cyclohexane	0.99760	0.90613	0.90613	0.010	-9.16913	20.00000	Averaged	
47 1,2-Dichloroethane	0.50088	0.46285	0.46285	0.010	-7.59370	20.00000	Averaged	
48 Trichloroethene	0.37251	0.31342	0.31342	0.010	-15.86338	20.00000	Averaged	
51 1,2-Dichloropropane	0.34814	0.32869	0.32869	0.010	-5.58782	20.00000	Averaged	
52 Bromodichloromethane	0.43355	0.41613	0.41613	0.010	-4.01673	20.00000	Averaged	
53 cis-1,3-dichloropropene	0.55051	0.52637	0.52637	0.010	-4.38464	20.00000	Averaged	
54 1,4-Dioxane	0.00593	0.00069	0.00069	0.001	-88.29970	20.00000	Averaged	*
57 Toluene	0.87898	0.80374	0.80374	0.010	-8.55963	20.00000	Averaged	
58 4-methyl-2-pentanone	250	243	0.33466	0.010	-2.88268	20.00000	Linear	
59 Tetrachloroethene	0.30685	0.25986	0.25986	0.010	-15.31459	20.00000	Averaged	
60 trans-1,3-Dichloropropene	50.00000	44.15332	0.44477	0.010	-11.69335	20.00000	Linear	
61 1,1,2-Trichloroethane	0.23819	0.22587	0.22587	0.010	-5.17002	20.00000	Averaged	
62 Dibromochloromethane	50.00000	40.98110	0.31141	0.010	-18.03781	20.00000	Linear	
64 1,2-Dibromoethane	0.28935	0.27013	0.27013	0.010	-6.64222	20.00000	Averaged	
65 2-Hexanone	250	208	0.22042	0.010	-16.93073	20.00000	Linear	
67 Chlorobenzene	0.98344	0.87314	0.87314	0.300	-11.21594	20.00000	Averaged	
68 Ethylbenzene	0.56534	0.47676	0.47676	0.010	-15.66911	20.00000	Averaged	
71 m+p-Xylenes	0.68724	0.59495	0.59495	0.010	-13.42881	20.00000	Averaged	
72 o-Xylene	0.63302	0.55720	0.55720	0.010	-11.97753	20.00000	Averaged	
73 Styrene	1.09994	1.02654	1.02654	0.010	-6.67345	20.00000	Averaged	

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, ,
SDG: SF6628
Lab ID : WG114400-4
Analytical Date: 10/04/12 10:33
Lab File ID : D2124.D
Instrument ID: GCMS-D
Initial Calibration Date(s): 09/28/12 10:11 09/28/12 13:32

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
74 Bromoform	50.00000	39.29066	0.18941	0.100	-21.41867	20.00000	Linear	*
75 Isopropylbenzene	2.79999	2.34583	2.34583	0.010	-16.22004	20.00000	Averaged	
80 N-Propylbenzene	3.43918	2.87927	2.87927	0.010	-16.28039	20.00000	Averaged	
81 1,1,2,2-Tetrachloroethane	0.74588	0.61145	0.61145	0.300	-18.02278	20.00000	Averaged	
82 1,3,5-Trimethylbenzene	2.45260	2.12819	2.12819	0.010	-13.22738	20.00000	Averaged	
85 4-Chlorotoluene	2.15560	1.81325	1.81325	0.010	-15.88187	20.00000	Averaged	
86 tert-Butylbenzene	2.30811	2.00595	2.00595	0.010	-13.09116	20.00000	Averaged	
88 1,2,4-Trimethylbenzene	2.43173	2.09977	2.09977	0.010	-13.65130	20.00000	Averaged	
89 P-Isopropyltoluene	2.46238	2.09013	2.09013	0.010	-15.11771	20.00000	Averaged	
90 1,3-Dichlorobenzene	1.36063	1.18061	1.18061	0.010	-13.23064	20.00000	Averaged	
92 1,4-Dichlorobenzene	1.50693	1.31147	1.31147	0.010	-12.97068	20.00000	Averaged	
93 N-Butylbenzene	2.36683	2.03283	2.03283	0.010	-14.11149	20.00000	Averaged	
94 sec-Butylbenzene	3.01776	2.47206	2.47206	0.010	-18.08318	20.00000	Averaged	
95 1,2-Dichlorobenzene	1.28487	1.13106	1.13106	0.010	-11.97064	20.00000	Averaged	
96 1,2-Dibromo-3-Chloropropane	50.00000	38.42018	0.09330	0.010	-23.15964	20.00000	Linear	*
99 1,2,4-Trichlorobenzene	0.75566	0.63792	0.63792	0.010	-15.58198	20.00000	Averaged	
101 Naphthalene	50.00000	39.00677	1.13221	0.010	-21.98646	20.00000	Linear	*
102 1,2,3-Trichlorobenzene	0.61858	0.51161	0.51161	0.010	-17.29357	20.00000	Averaged	
103 Methyl Acetate	0.42353	0.36995	0.36995	0.010	-12.65025	20.00000	Averaged	
104 Methylcyclohexane	0.83099	0.90190	0.90190	0.010	8.53312	20.00000	Averaged	
37 Dibromofluoromethane	0.49513	0.49889	0.49889	0.010	0.76117	20.00000	Averaged	
45 1,2-Dichloroethane-D4	0.66845	0.66076	0.66076	0.010	-1.15043	20.00000	Averaged	
55 Toluene-D8	1.20301	1.20158	1.20158	0.010	-0.11834	20.00000	Averaged	
76 P-Bromofluorobenzene	0.49714	0.49741	0.49741	0.010	0.05470	20.00000	Averaged	

*** = Compound out of QC criteria**

Data File: \\target_server\GG\chem\gcms-d.i\D100412.b\D2124.D
Report Date: 15-Oct-2012 11:33

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D100412.b\D2124.D
Lab Smp Id: WG114400-4 Client Smp ID: ontinuing Calibrati
Inj Date : 04-OCT-2012 10:33 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114400-4,SF6628
Misc Info : WG114400,WG114145-4,SF6628-7
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D100412.b\D826A10.m
Meth Date : 15-Oct-2012 11:26 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 1 Continuing Calibration Sample
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	2.095	2.108	(0.259)	208947	50.0000	44.0	
2	Chloromethane	50	2.331	2.344	(0.289)	386362	50.0000	44.4	
3	Vinyl chloride	62	2.432	2.444	(0.301)	318725	50.0000	48.1	
4	Bromomethane	94	2.825	2.844	(0.350)	120622	50.0000	47.9	
5	Chloroethane	64	2.996	3.009	(0.371)	211871	50.0000	50.0	
6	Trichlorofluoromethane	101	3.175	3.195	(0.393)	444599	50.0000	54.6	
7	Diethyl Ether	59	3.583	3.602	(0.443)	236127	50.0000	49.6	
8	Tertiary-butyl alcohol	59	5.871	5.890	(0.727)	104829	250.000	245	
9	1,1-Dichloroethene	96	3.854	3.874	(0.477)	189176	50.0000	44.6	
10	Carbon Disulfide	76	3.897	3.917	(0.482)	732797	50.0000	46.1	
11	Freon-113	151	3.926	3.945	(0.486)	170209	50.0000	56.2	
12	Iodomethane	142	4.055	4.074	(0.502)	146816	50.0000	49.5	
13	Acrolein	56	4.341	4.360	(0.537)	109029	250.000	232	
14	Methylene Chloride	84	4.734	4.761	(0.586)	252382	50.0000	46.3	
15	Acetone	43	4.813	4.832	(0.596)	310457	250.000	219	
16	Isobutyl Alcohol	43	8.266	8.286	(1.023)	88385	1000.00	690	
17	trans-1,2-Dichloroethene	96	5.013	5.039	(0.620)	233538	50.0000	44.1	
18	Allyl Chloride	41	4.569	4.589	(0.566)	473283	50.0000	47.8	
19	Methyl tert-butyl ether	73	5.220	5.240	(0.646)	1135671	100.000	88.1	
20	Acetonitrile	39	5.578	5.597	(0.690)	62731	500.000	497	
21	Di-isopropyl ether	45	5.871	5.890	(0.727)	1097448	50.0000	49.1	
22	Chloroprene	53	5.985	6.005	(0.741)	574798	50.0000	49.7	
23	Propionitrile	54	7.973	7.992	(0.987)	328123	500.000	506	
24	Methacrylonitrile	41	8.009	8.028	(0.991)	1972412	500.000	537	

Data File: \\target_server\GG\chem\gcms-d.i\D100412.b\D2124.D
Report Date: 15-Oct-2012 11:33

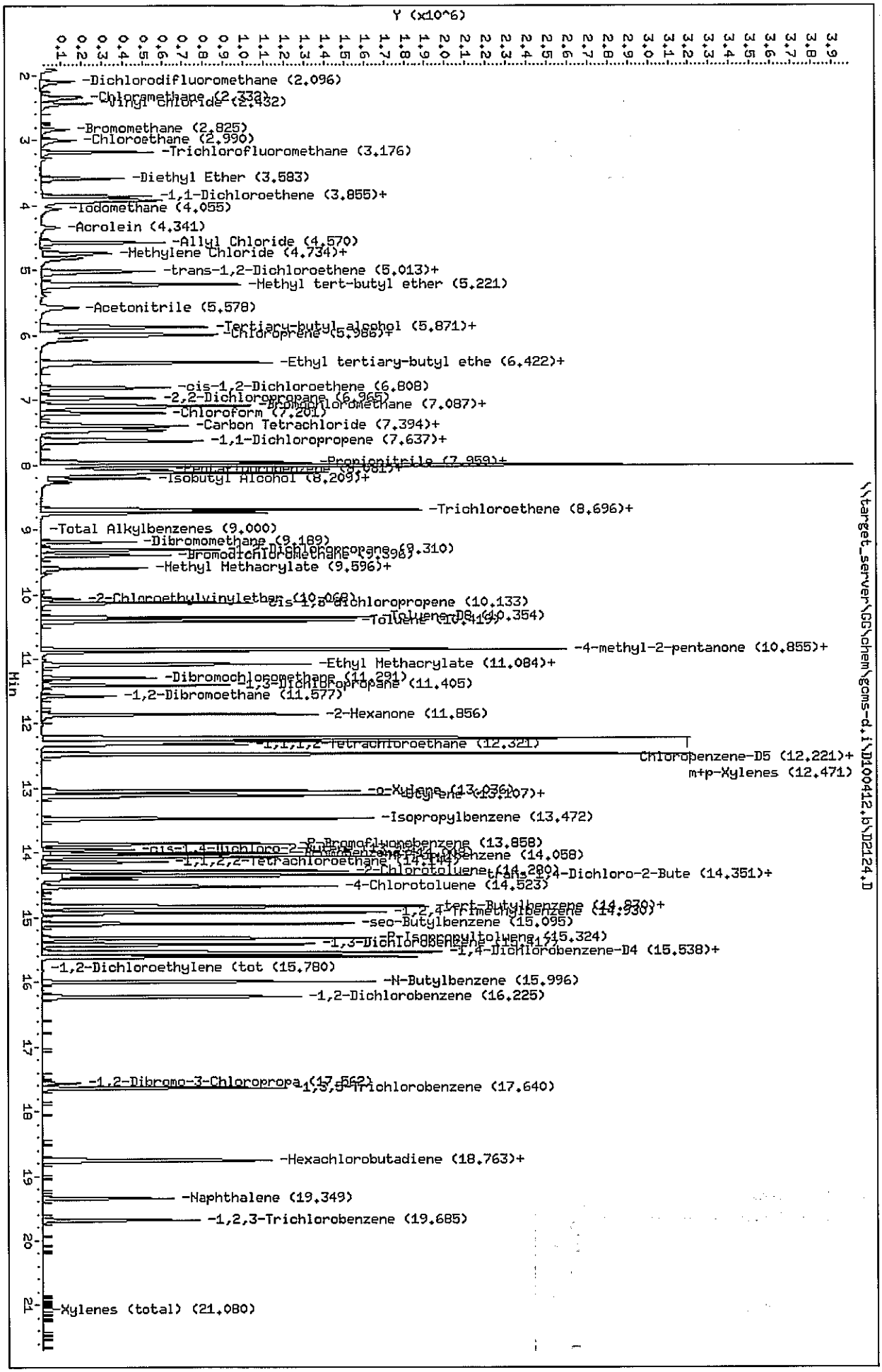
			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	6.007	6.033	(0.743)	481234	50.0000	47.0	
	26	Acrylonitrile	52	6.078	6.098	(0.752)	200550	250.000	245	
	27	Ethyl tertiary-butyl ether	59	6.421	6.441	(0.795)	787530	50.0000	47.2	
	28	Vinyl Acetate	43	6.421	6.441	(0.735)	693550	50.0000	46.4	
	29	cis-1,2-Dichloroethene	96	6.807	6.827	(0.842)	255858	50.0000	47.0	
M	30	1,2-Dichloroethylene (total)	96				489396	50.0000	(a)	
	31	Methyl Methacrylate	41	9.596	9.615	(1.098)	250734	50.0000	42.7	
	32	2,2-Dichloropropane	77	6.965	6.984	(0.862)	304744	50.0000	40.6	
	33	Bromochloromethane	128	7.079	7.099	(0.876)	115223	50.0000	49.8	
	34	Chloroform	83	7.201	7.220	(0.891)	440207	50.0000	48.0	
	35	Carbon Tetrachloride	117	7.379	7.399	(0.845)	290331	50.0000	42.6	
	36	Tetrahydrofuran	42	7.401	7.420	(0.916)	354299	250.000	234	
$	37	Dibromofluoromethane	113	7.437	7.463	(0.920)	243952	50.0000	50.4	
	38	1,1,1-Trichloroethane	97	7.472	7.492	(0.925)	369878	50.0000	44.8	
	39	1,1-Dichloropropene	75	7.637	7.656	(0.874)	336218	50.0000	43.2	
	40	2-Butanone	43	7.608	7.628	(0.942)	564203	250.000	237	
	41	Benzene	78	7.959	7.978	(0.911)	1010856	50.0000	45.7	
*	42	Pentafluorobenzene	168	8.080	8.100	(1.000)	488985	50.0000		
	43	Cyclohexane	56	7.101	7.120	(0.879)	443085	50.0000	45.4	
	44	Ethyl Methacrylate	69	11.090	11.103	(1.269)	299527	50.0000	44.8	
$	45	1,2-Dichloroethane-D4	65	8.123	8.143	(1.005)	323101	50.0000	49.4	
	46	Tertiary-amyl methyl ether	73	8.130	8.150	(1.006)	576506	50.0000	45.7	
	47	1,2-Dichloroethane	62	8.209	8.228	(0.939)	377470	50.0000	46.2	
	48	Trichloroethene	95	8.695	8.715	(0.995)	255605	50.0000	42.1	
*	49	1,4-Difluorobenzene	114	8.738	8.757	(1.000)	815538	50.0000		
	50	Dibromomethane	93	9.188	9.208	(1.052)	150248	50.0000	46.4	
	51	1,2-Dichloropropane	63	9.317	9.329	(1.066)	268060	50.0000	47.2	
	52	Bromodichloromethane	83	9.396	9.415	(1.075)	339372	50.0000	48.0	
	53	cis-1,3-dichloropropene	75	10.132	10.152	(1.160)	429274	50.0000	47.8	
	54	1,4-Dioxane	88	9.632	9.651	(1.102)	11326	1000.00	117	
$	55	Toluene-D8	98	10.354	10.373	(1.185)	979937	50.0000	49.9	
	56	2-Chloroethylvinylether	63	10.068	10.087	(1.152)	60233	50.0000	39.5	
	57	Toluene	92	10.418	10.431	(1.192)	655483	50.0000	45.7	
	58	4-methyl-2-pentanone	43	10.847	10.867	(1.241)	1364651	250.000	243	
	59	Tetrachloroethene	164	10.862	10.881	(0.889)	209303	50.0000	42.3	
	60	trans-1,3-Dichloropropene	75	10.890	10.910	(1.246)	362726	50.0000	44.2	
	61	1,1,2-Trichloroethane	83	11.076	11.096	(1.268)	184209	50.0000	47.4	
	62	Dibromochloromethane	129	11.291	11.310	(0.924)	250828	50.0000	41.0	
	63	1,3-Dichloropropane	76	11.405	11.424	(0.933)	414021	50.0000	44.4	
	64	1,2-Dibromoethane	107	11.577	11.596	(1.325)	220302	50.0000	46.7	
	65	2-Hexanone	43	11.855	11.875	(0.970)	887701	250.000	208	
*	66	Chlorobenzene-D5	117	12.220	12.240	(1.000)	805450	50.0000		
	67	Chlorobenzene	112	12.242	12.261	(1.002)	703268	50.0000	44.4	
	152	1-Chlorohexane	91	12.220	12.240	(1.000)	366302	50.0000	39.5	
	68	Ethylbenzene	106	12.284	12.304	(1.005)	384006	50.0000	42.2	
	69	1,1,1,2-Tetrachloroethane	131	12.320	12.340	(1.008)	251414	50.0000	47.0	
M	70	Xylenes (total)	106				1407198	150.000	(a)	
	71	m+p-Xylenes	106	12.470	12.490	(1.020)	958401	100.000	86.6	
	72	o-Xylene	106	13.035	13.062	(1.067)	448797	50.0000	44.0	
	73	Styrene	104	13.107	13.126	(1.073)	826824	50.0000	46.7	
	74	Bromoform	173	13.135	13.155	(1.075)	152557	50.0000	39.3	
	75	Isopropylbenzene	105	13.471	13.491	(0.867)	1110584	50.0000	41.9	
$	76	P-Bromofluorobenzene	95	13.857	13.877	(1.586)	405658	50.0000	50.0	
	77	cis-1,4-Dichloro-2-Butene	53	13.950	13.970	(0.898)	111247	50.0000	42.9	

Data File: \\target_server\GG\chem\gcms-d.i\D100412.b\D2124.D
Report Date: 15-Oct-2012 11:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.408	14.427	(0.927)	112327	50.0000	44.2	
79	Bromobenzene	156	14.008	14.027	(0.902)	308692	50.0000	44.4	
80	N-Propylbenzene	91	14.058	14.077	(0.905)	1363130	50.0000	41.8	
81	1,1,2,2-Tetrachloroethane	83	14.143	14.163	(0.910)	289479	50.0000	41.0	
82	1,3,5-Trimethylbenzene	105	14.351	14.370	(0.924)	1007546	50.0000	43.4	
83	2-Chlorotoluene	91	14.279	14.299	(0.919)	837727	50.0000	42.2	
84	1,2,3-Trichloropropane	75	14.344	14.363	(0.923)	242395	50.0000	42.2	
85	4-Chlorotoluene	91	14.522	14.542	(0.935)	858447	50.0000	42.0	
86	tert-Butylbenzene	119	14.823	14.842	(0.954)	949676	50.0000	43.4	
87	Pentachloroethane	117	14.844	14.864	(0.955)	227889	50.0000	47.8	
88	1,2,4-Trimethylbenzene	105	14.930	14.949	(0.961)	994092	50.0000	43.2	
89	P-Isopropyltoluene	119	15.323	15.343	(0.986)	989526	50.0000	42.4	
90	1,3-Dichlorobenzene	146	15.416	15.443	(0.992)	558933	50.0000	43.4	
* 91	1,4-Dichlorobenzene-D4	152	15.538	15.557	(1.000)	473429	50.0000		
92	1,4-Dichlorobenzene	146	15.559	15.579	(1.001)	620887	50.0000	43.5	
93	N-Butylbenzene	91	15.995	16.015	(1.029)	962403	50.0000	42.9	
94	sec-Butylbenzene	105	15.094	15.114	(0.971)	1170343	50.0000	41.0	
95	1,2-Dichlorobenzene	146	16.231	16.251	(1.045)	535478	50.0000	44.0	
96	1,2-Dibromo-3-Chloropropane	75	17.561	17.581	(1.130)	44173	50.0000	38.4	
97	1,3,5-Trichlorobenzene	180	17.640	17.659	(1.135)	399631	50.0000	45.2	
98	Hexachlorobutadiene	225	18.741	18.760	(1.206)	126905	50.0000	39.2	
99	1,2,4-Trichlorobenzene	180	18.762	18.789	(1.208)	302008	50.0000	42.2	
100	1,2,3-Trimethylbenzene	105	15.609	15.629	(1.005)	1100507	50.0000	46.7	
101	Naphthalene	128	19.349	19.368	(1.245)	536019	50.0000	39.0	
102	1,2,3-Trichlorobenzene	180	19.685	19.704	(1.267)	242209	50.0000	41.4	
103	Methyl Acetate	43	5.048	5.068	(0.625)	180902	50.0000	43.7	
104	Methylcyclohexane	83	8.688	8.707	(1.075)	441016	50.0000	54.3	
M 153	Total Alkylbenzenes	100				7436716	50.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).



Data File: \\target_server\GC\chem\gcms-d.i\D100412.b\D2124.D
Date : 04-OCT-2012 10:33
Client ID: ontinuing Calibrati
Sample Info: WG114400-4,SF6628
Purge Volume: 5.0
Column phase: RTX-VMS

\\target_server\GC\chem\gcms-d.i\D100412.b\D2124.D

Instrument: gcms-d.i
Operator: REC
Column diameter: 0.18

Data File: \\target_server\GC\chem\gcms-d.i\D092812.b\DB994.D

Date : 28-SEP-2012 09:48

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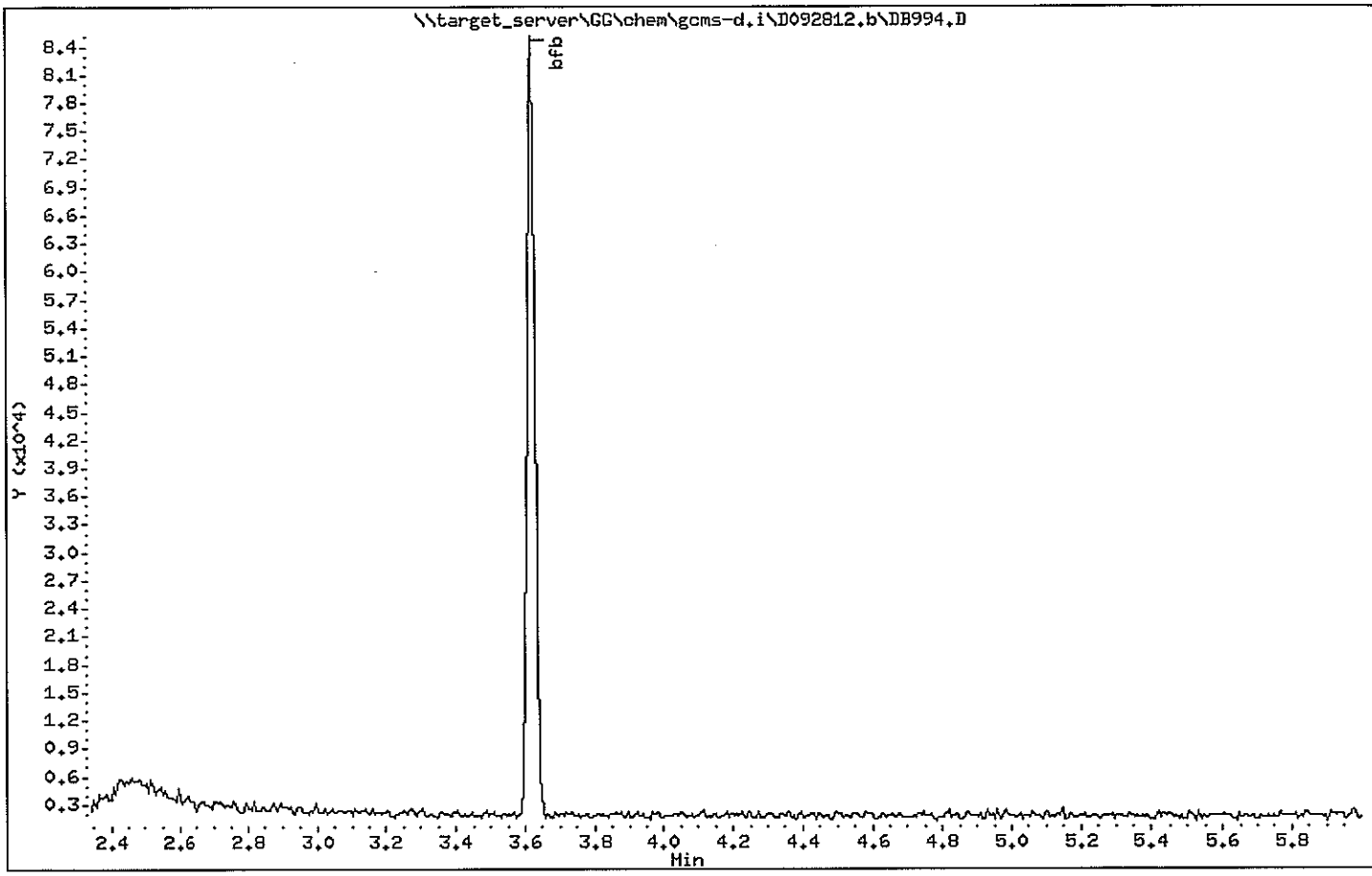
Instrument: gcms-d.i

Sample Info: WG114145-9,SF6628

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



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Date : 28-SEP-2012 09:48

Client ID:

Instrument: gcms-d.i

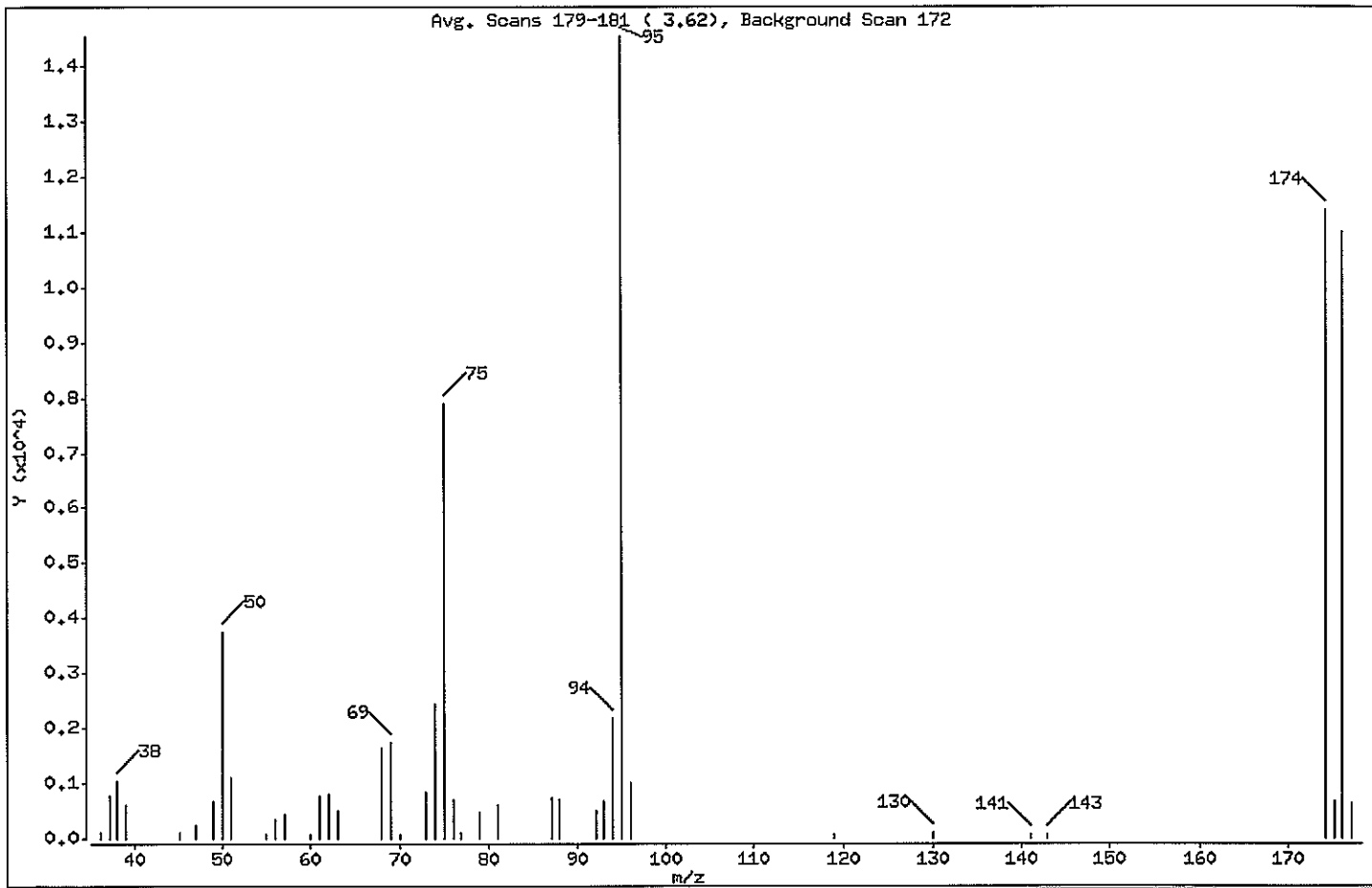
Sample Info: WG114145-9,SF6628

Operator: REC

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	25.76
75	30.00 - 60.00% of mass 95	54.21
96	5.00 - 9.00% of mass 95	6.84
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	78.49
175	5.00 - 9.00% of mass 174	4.65 (5.92)
176	95.00 - 101.00% of mass 174	75.56 (96.26)
177	5.00 - 9.00% of mass 176	4.29 (5.68)

Data File: \\target_server\GC\chem\gcms-d.i\D092812.b\DB994.D

Date : 28-SEP-2012 09:48

Client ID:

Instrument: gcms-d.i

Sample Info: WG114145-9,SF6628

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

Data File: DB994.D

Spectrum: Avg. Scans 179-181 (3.62), Background Scan 172

Location of Maximum: 95.00

Number of points: 41

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36.00	98	57.00	421	76.00	693	119.00	75
37.00	778	60.00	72	77.00	93	130.00	98
38.00	1046	61.00	780	79.00	467	141.00	74
39.00	587	62.00	809	81.00	586	143.00	70
45.00	95	63.00	504	87.00	734	174.00	11413
47.00	227	68.00	1626	88.00	697	175.00	676
49.00	670	69.00	1742	92.00	518	176.00	10986
50.00	3745	70.00	77	93.00	684	177.00	624
51.00	1111	73.00	824	94.00	2171		
55.00	69	74.00	2455	95.00	14540		
56.00	347	75.00	7882	96.00	994		

Data File: \\target_server\GC\chem\gcms-d.i\D100212.b\DB996.D

Date : 02-OCT-2012 10:02

Client ID:

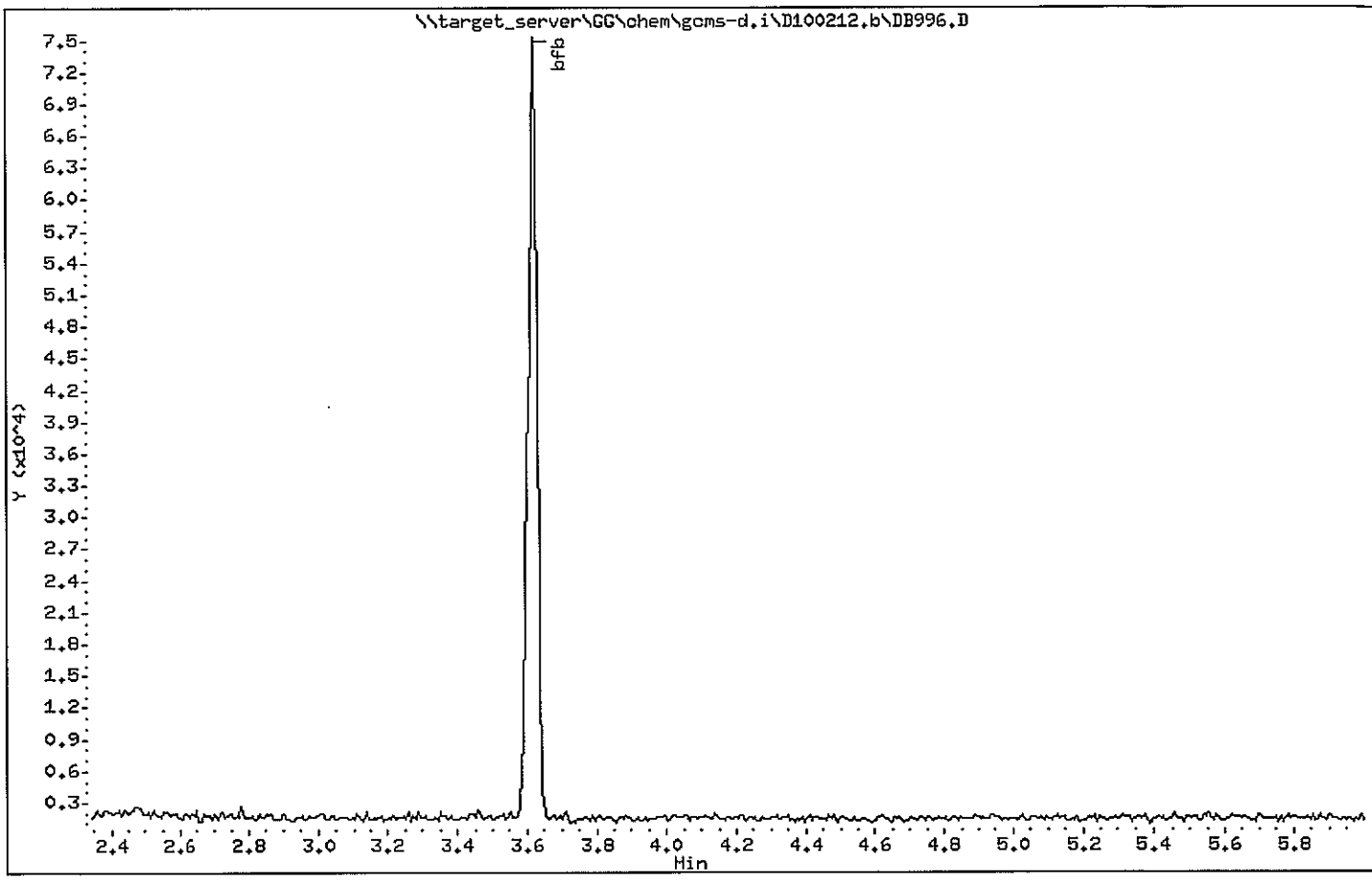
Instrument: gcms-d.i

Sample Info: WG114264-7,SF6628

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\GC\chem\gcms-d.i\D100212.b\DB996.D

Date : 02-OCT-2012 10:02

Client ID:

Instrument: gcms-d.i

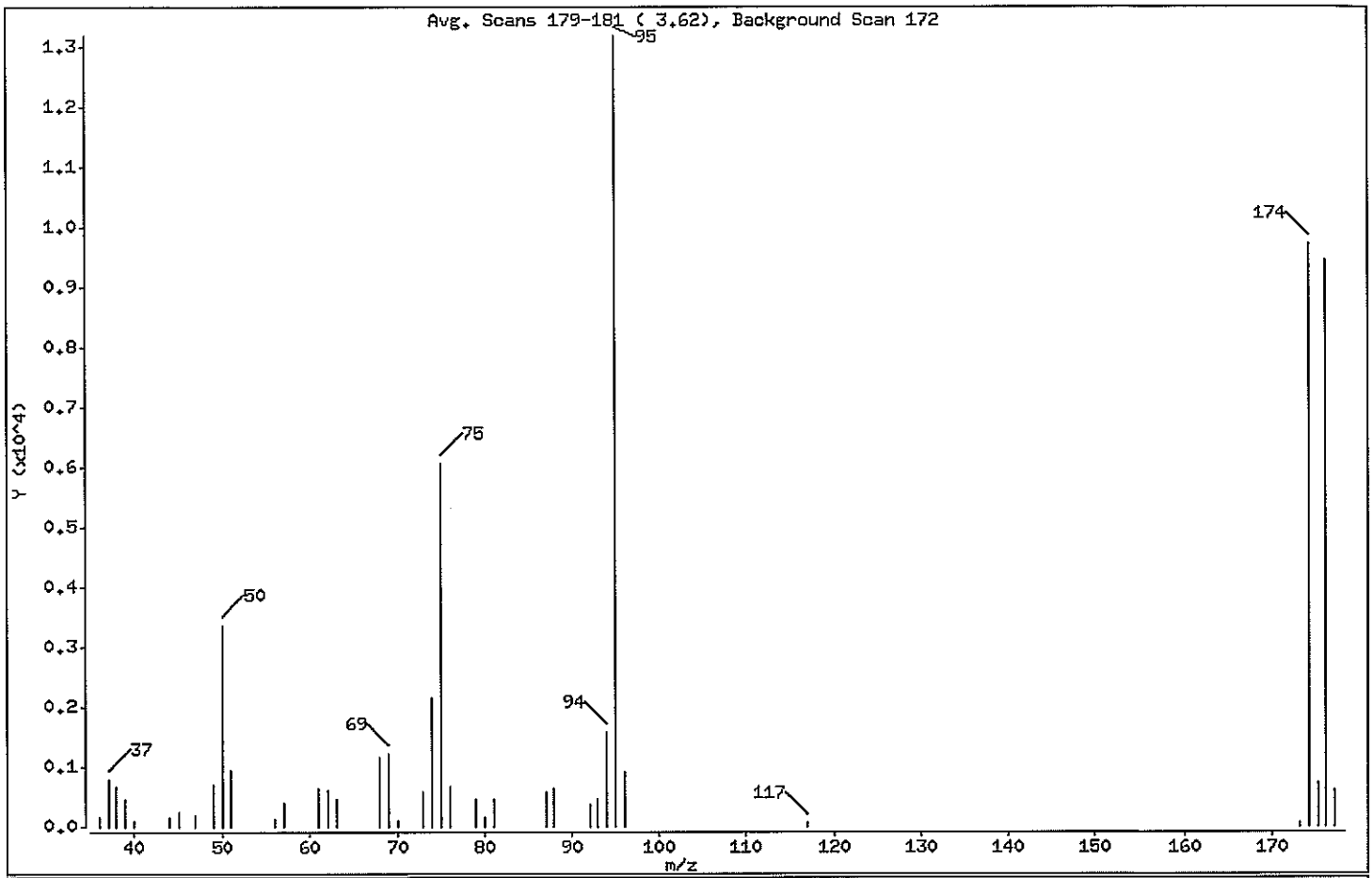
Sample Info: WG114264-7,SF6628

Operator: REC

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	25.53
75	30.00 - 60.00% of mass 95	46.00
96	5.00 - 9.00% of mass 95	6.86
173	Less than 2.00% of mass 174	0.52 (0.71)
174	Greater than 50.00% of mass 95	73.81
175	5.00 - 9.00% of mass 174	5.47 (7.41)
176	95.00 - 101.00% of mass 174	71.65 (97.07)
177	5.00 - 9.00% of mass 176	4.68 (6.52)

Data File: \\target_server\GC\chem\gcms-d.i\D100212.b\DB996.D

Date : 02-OCT-2012 10:02

Client ID:

Instrument: gcms-d.i

Sample Info: WG114264-7,SF6628

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

Data File: DB996.D

Spectrum: Avg. Scans 179-181 (3.62), Background Scan 172

Location of Maximum: 95.00

Number of points: 39

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37.00	790	56.00	134	75.00	6071	95.00	13197
38.00	682	57.00	408	76.00	678	96.00	905
39.00	457	61.00	626	79.00	466	117.00	68
40.00	102	62.00	600	80.00	163	173.00	69
44.00	154	63.00	446	81.00	457	174.00	9741
45.00	234	68.00	1157	87.00	572	175.00	722
47.00	196	69.00	1224	88.00	622	176.00	9456
49.00	701	70.00	86	92.00	359	177.00	617
50.00	3369	73.00	572	93.00	454		

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Date : 03-OCT-2012 09:30

Client ID:

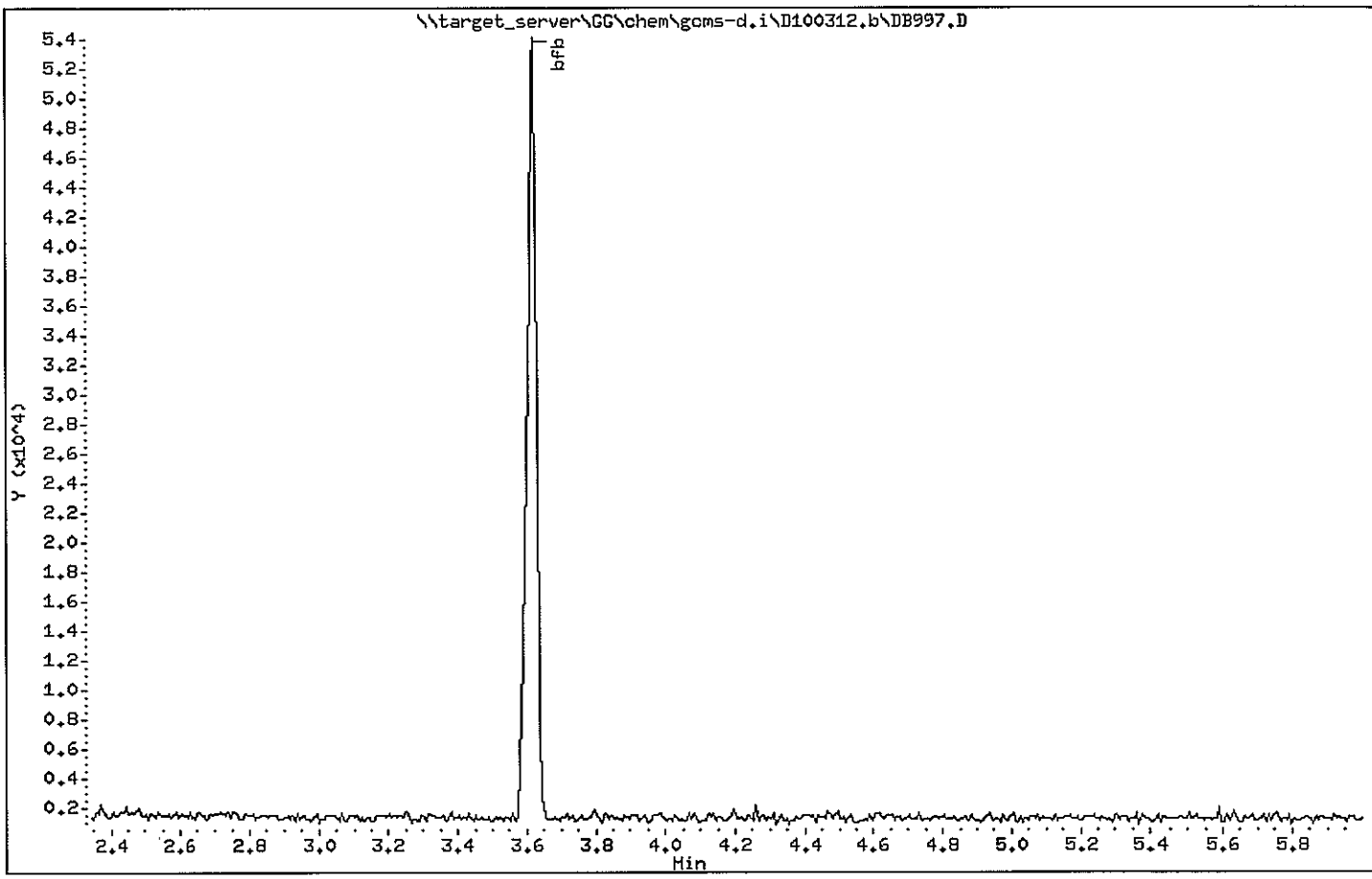
Instrument: goms-d.i

Sample Info: WG114326-3,SF6628

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\GC\chem\gcms-d.i\D100312.b\DB997.D

Date : 03-OCT-2012 09:30

Client ID:

Instrument: gcms-d.i

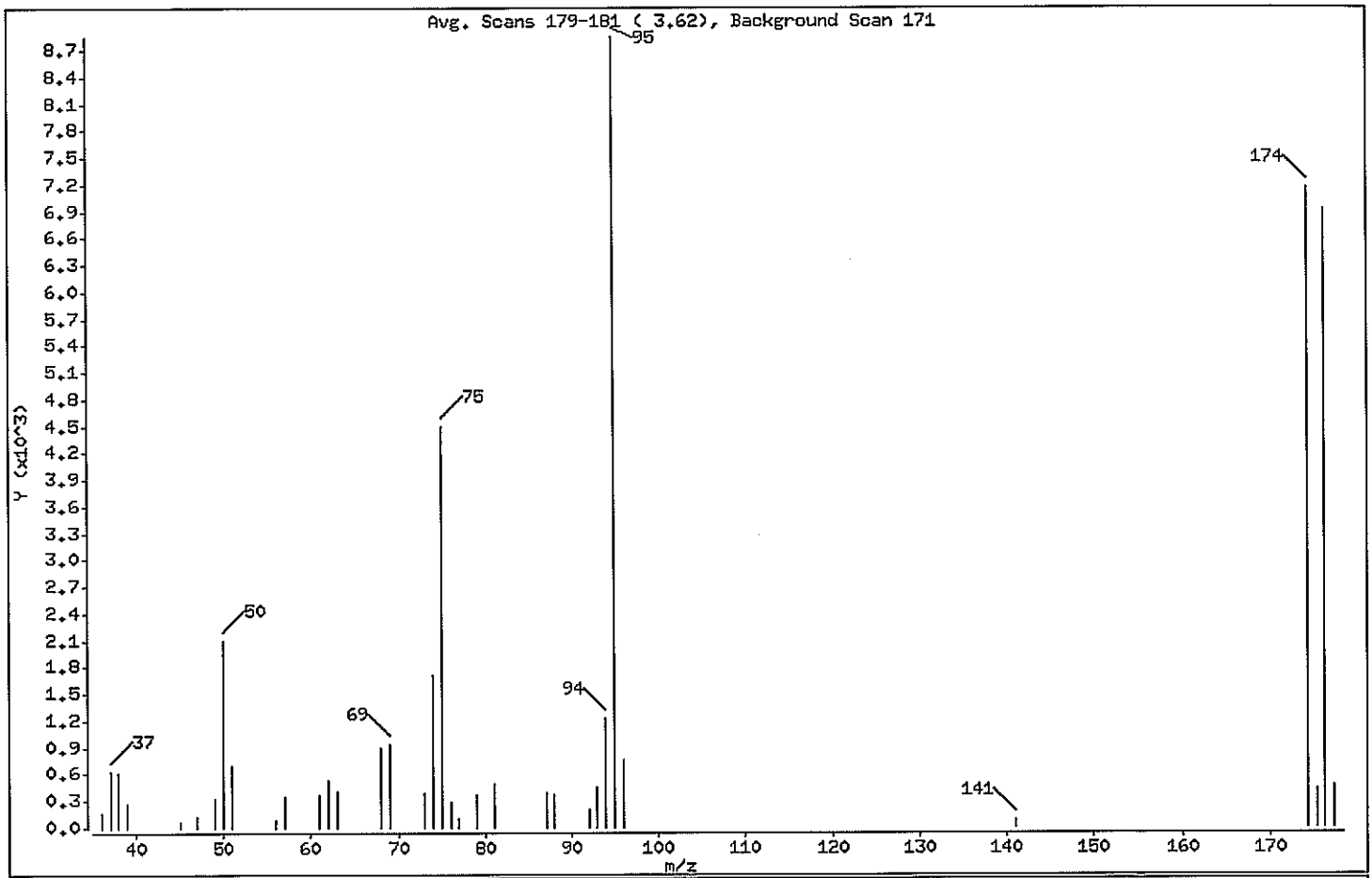
Sample Info: WG114326-3,SF6628

Operator: REC

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	23.71
75	30.00 - 60.00% of mass 95	50.80
96	5.00 - 9.00% of mass 95	8.55
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	80.99
175	5.00 - 9.00% of mass 174	4.88 (6.03)
176	95.00 - 101.00% of mass 174	78.07 (96.40)
177	5.00 - 9.00% of mass 176	5.18 (6.63)

Data File: \\target_server\GC\chem\gcms-d.i\D100312.b\DB997.D

Date : 03-OCT-2012 09:30

Client ID:

Instrument: gcms-d.i

Sample Info: WG114326-3,SF6628

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

Data File: DB997.D

Spectrum: Avg. Scans 179-181 (3.62), Background Scan 171

Location of Maximum: 95.00

Number of points: 35

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	170	56.00	73	75.00	4494	94.00	1221
37.00	625	57.00	340	76.00	288	95.00	8846
38.00	600	61.00	373	77.00	96	96.00	756
39.00	255	62.00	528	79.00	372	141.00	72
45.00	70	63.00	414	81.00	490	174.00	7164
47.00	119	68.00	895	87.00	386	175.00	432
49.00	330	69.00	926	88.00	365	176.00	6906
50.00	2097	73.00	387	92.00	213	177.00	458
51.00	688	74.00	1709	93.00	452		

Data File: \\target_server\GC\chem\gcms-d.i\D100412.b\DB998.D

Date : 04-OCT-2012 10:09

Client ID:

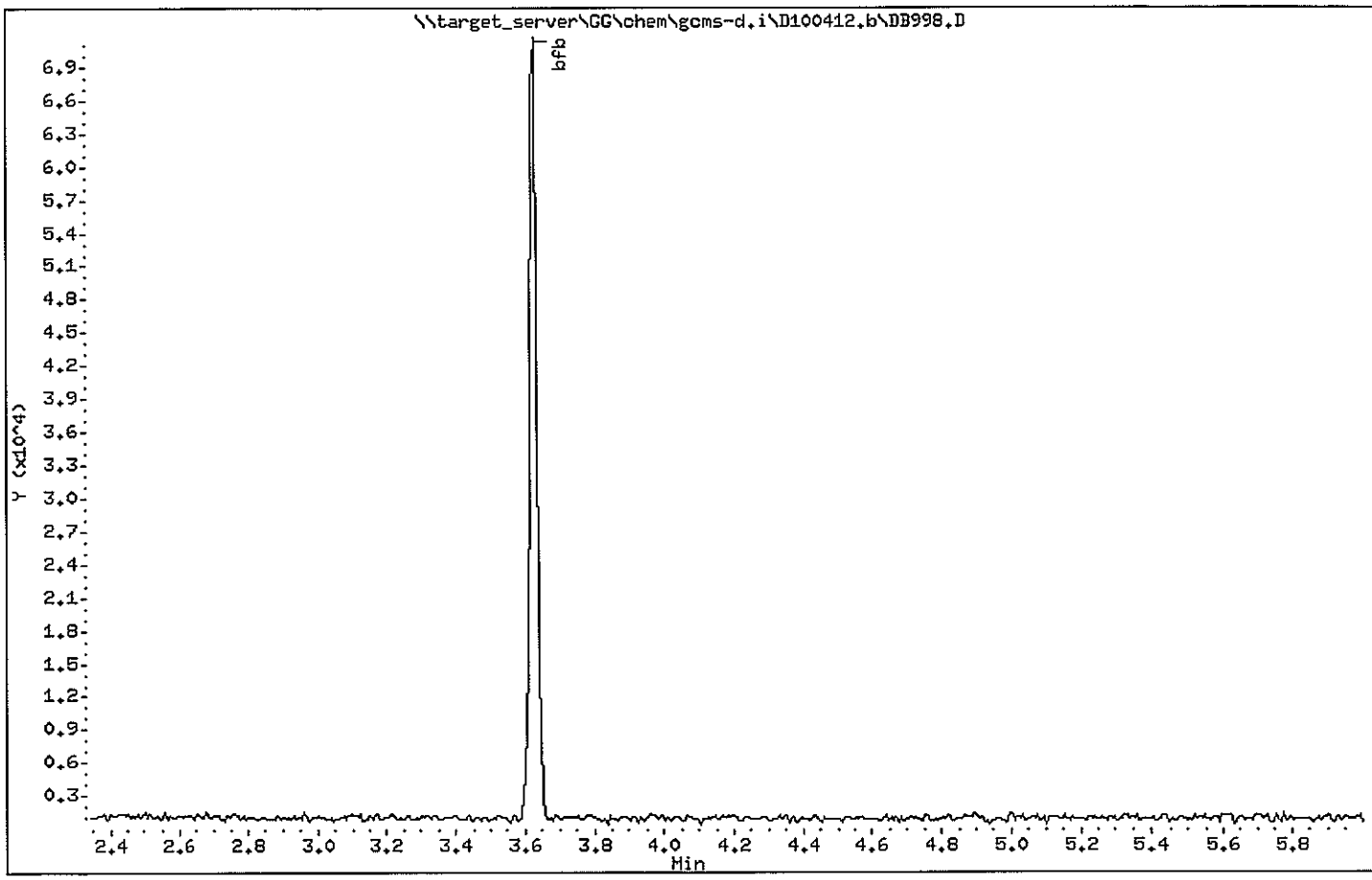
Instrument: gcms-d.i

Sample Info: WG114400-3,SF6628

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\GC\chem\gcms-d.i\D100412.b\DB998.D

Date : 04-OCT-2012 10:09

Client ID:

Instrument: gcms-d.i

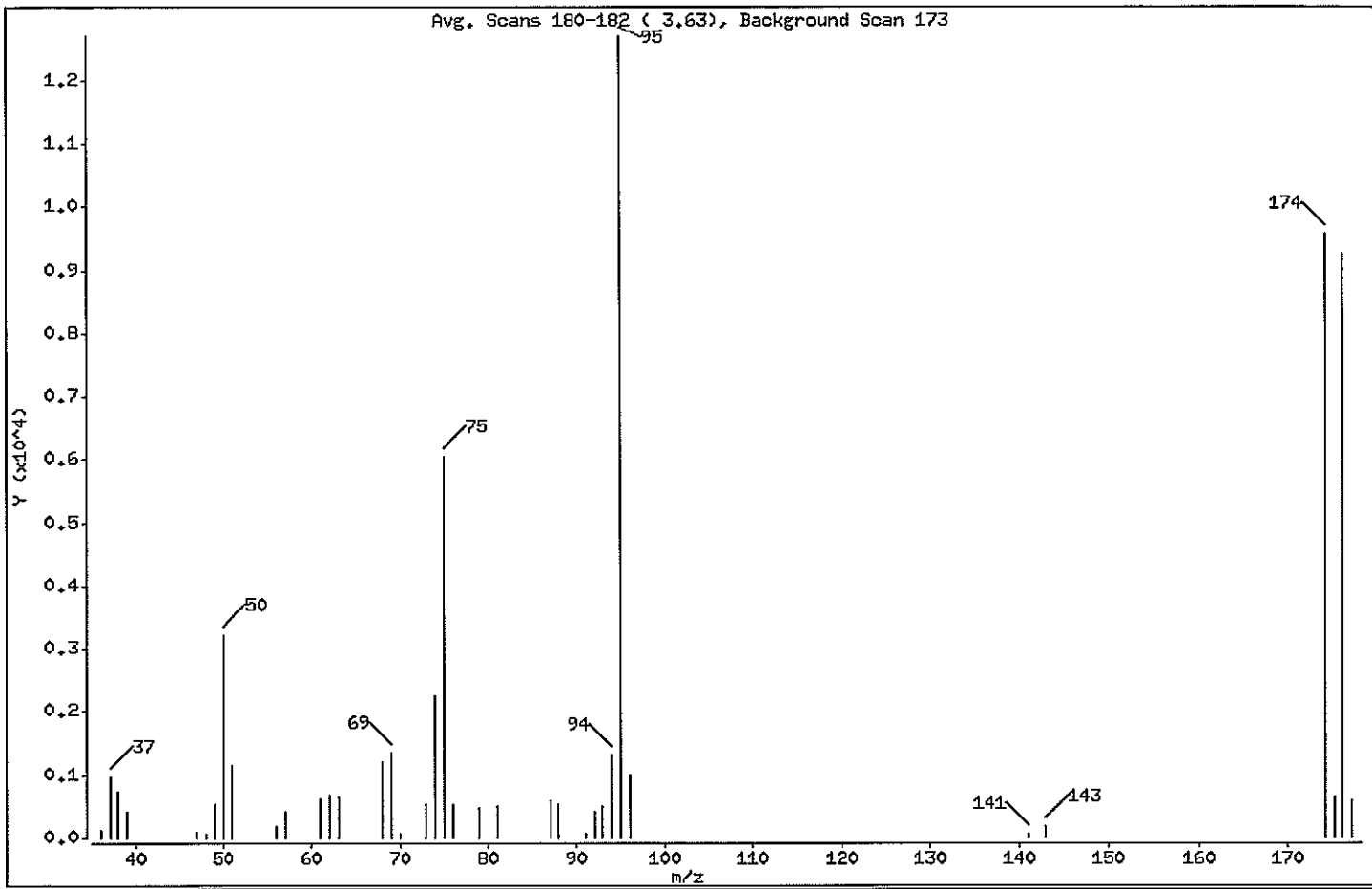
Sample Info: WG114400-3,SF6628

Operator: REC

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	25.33
75	30.00 - 60.00% of mass 95	47.67
96	5.00 - 9.00% of mass 95	7.89
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	75.38
175	5.00 - 9.00% of mass 174	5.02 (6.66)
176	95.00 - 101.00% of mass 174	72.81 (96.59)
177	5.00 - 9.00% of mass 176	4.66 (6.40)

Data File: \\target_server\GC\chem\gcms-d.i\D100412.b\DB998.D

Date : 04-OCT-2012 10:09

Client ID:

Instrument: gcms-d.i

Sample Info: WG114400-3,SF6628

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

Data File: DB998.D

Spectrum: Avg. Scans 180-182 (3.63), Background Scan 173

Location of Maximum: 95.00

Number of points: 37

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	104	57.00	401	76.00	515	96.00	1001
37.00	967	61.00	611	79.00	458	141.00	68
38.00	735	62.00	678	81.00	487	143.00	170
39.00	411	63.00	646	87.00	580	174.00	9566
47.00	76	68.00	1197	88.00	517	175.00	637
48.00	71	69.00	1330	91.00	67	176.00	9240
49.00	527	70.00	68	92.00	407	177.00	591
50.00	3214	73.00	539	93.00	483		
51.00	1151	74.00	2259	94.00	1299		
56.00	175	75.00	6050	95.00	12691		

Raw QC Data Section

Report of Analytical Results

Client:
Lab ID: WG114264-2
Client ID: Method Blank Sample
Project:
SDG: SF6628
Lab File ID: D2063.D

Sample Date:
Received Date:
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5

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Report of Analytical Results

Client:
Lab ID: WG114264-2
Client ID: Method Blank Sample
Project:
SDG: SF6628
Lab File ID: D2063.D

Sample Date:
Received Date:
Extract Date: 02-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		100.	%					
Toluene-d8		101.	%					
P-Bromofluorobenzene		94.8	%					
Dibromofluoromethane		106.	%					

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Data File: \\target_server\GG\chem\gcms-d.i\D100212.b\D2063.D
Report Date: 15-Oct-2012 11:08

Katahdin Analytical Services

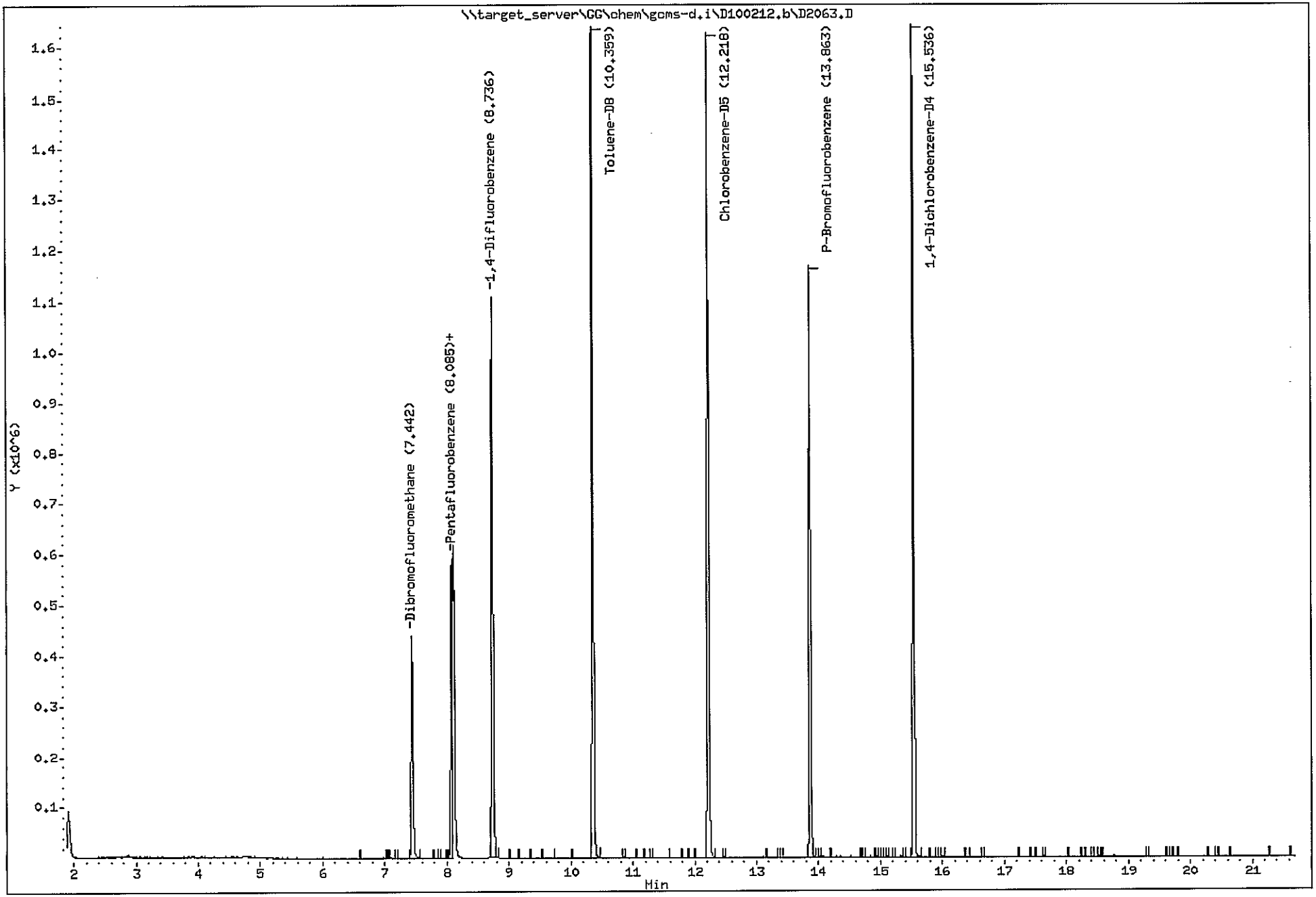
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Lab Smp Id: WG114264-2 Client Smp ID: WG114264-Blank
Inj Date : 02-OCT-2012 12:42 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114264-2,SF6628
Misc Info : WG114264,WG114145-4,SF6628-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D100212.b\D826A10.m
Meth Date : 15-Oct-2012 11:00 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 5 QC Sample: BLANK
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
$ 37 Dibromofluoromethane	113	7.441	7.463	(0.920)	257141	53.2198	53.2	
* 42 Pentafluorobenzene	168	8.085	8.100	(1.000)	487924	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.121	8.143	(1.004)	327535	50.2120	50.2	
* 49 1,4-Difluorobenzene	114	8.735	8.757	(1.000)	836649	50.0000		
$ 55 Toluene-D8	98	10.359	10.373	(1.186)	1017146	50.5291	50.5	
* 66 Chlorobenzene-D5	117	12.218	12.240	(1.000)	781453	50.0000		
$ 76 P-Bromofluorobenzene	95	13.862	13.877	(1.587)	394287	47.3981	47.4	
* 91 1,4-Dichlorobenzene-D4	152	15.535	15.557	(1.000)	430075	50.0000		

Data File: \\target_server\GC\chem\goms-d.i\D100212.b\D2063.D
Date : 02-OCT-2012 12:42
Client ID: WG114264-Blank
Instrument: goms-d.i
Sample Info: WG114264-2,SF6628



Katahdin Analytical Services 1000190

Report of Analytical Results

Client:
Lab ID: WG114326-2
Client ID: Method Blank Sample
Project:
SDG: SF6628
Lab File ID: D2103.D

Sample Date:
Received Date:
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5

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Report of Analytical Results

Client:
Lab ID: WG114326-2
Client ID: Method Blank Sample
Project:
SDG: SF6628
Lab File ID: D2103.D

Sample Date:
Received Date:
Extract Date: 03-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		104.	%					
Toluene-d8		99.8	%					
P-Bromofluorobenzene		94.8	%					
Dibromofluoromethane		105.	%					

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Data File: \\target_server\GG\chem\gcms-d.i\D100312.b\D2103.D
Report Date: 15-Oct-2012 11:20

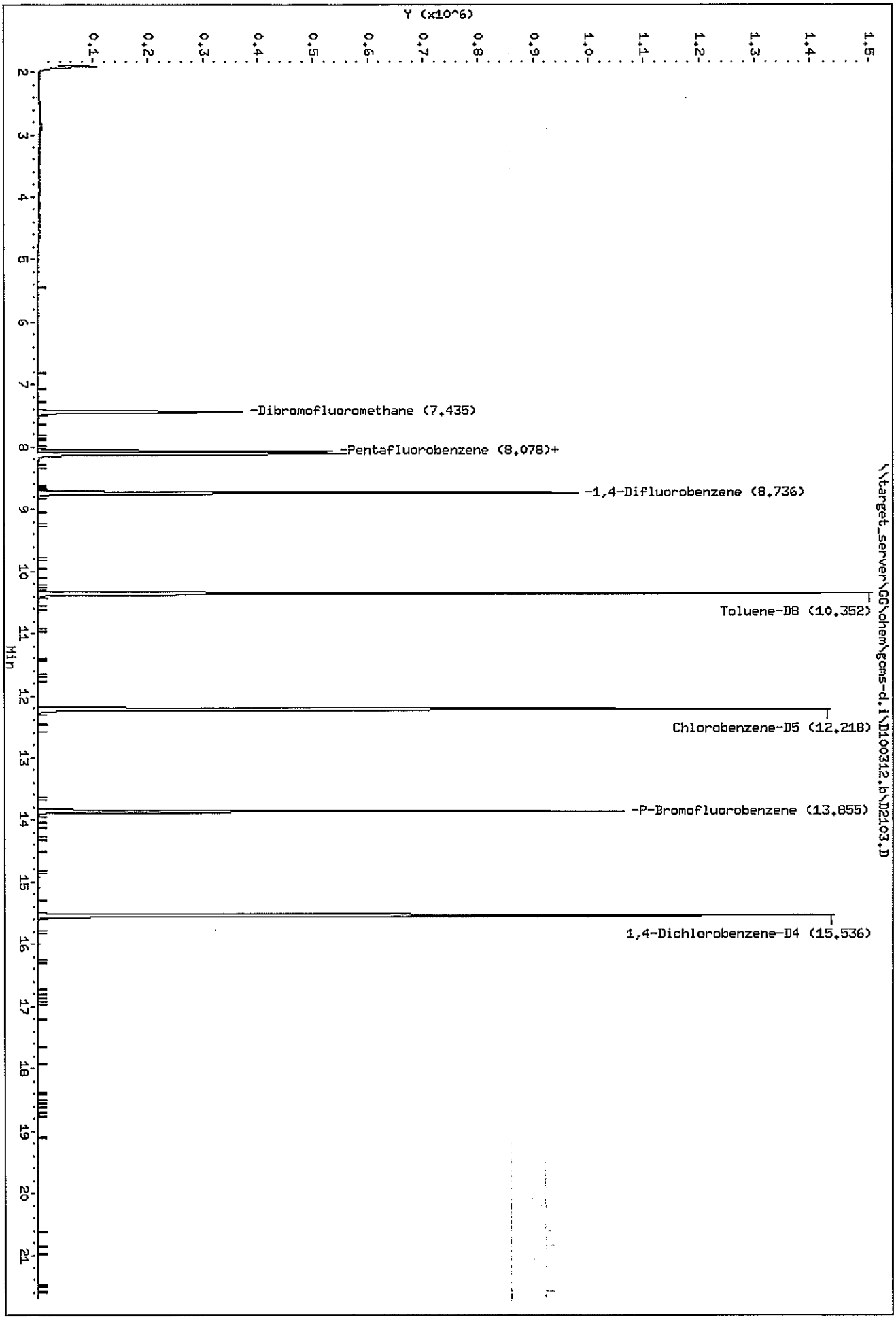
Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D100312.b\D2103.D
Lab Smp Id: WG114326-2 Client Smp ID: WG114326-Blank
Inj Date : 03-OCT-2012 12:10 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114326-2,SF6628
Misc Info : WG114326,WG114145-4,SF6628-7
Comment : SW846 5030,AQ
Method : \\target_server\GG\chem\gcms-d.i\D100312.b\D826A10.m
Meth Date : 15-Oct-2012 11:10 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 5 QC Sample: BLANK
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
$ 37 Dibromofluoromethane	113	7.434	7.463	(0.920)	215682	52.5138	52.5	
* 42 Pentafluorobenzene	168	8.078	8.100	(1.000)	414758	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.113	8.143	(1.004)	289550	52.2193	52.2	
* 49 1,4-Difluorobenzene	114	8.735	8.757	(1.000)	731978	50.0000		
$ 55 Toluene-D8	98	10.351	10.373	(1.185)	879081	49.9152	49.9	
* 66 Chlorobenzene-D5	117	12.218	12.240	(1.000)	693489	50.0000		
$ 76 P-Bromofluorobenzene	95	13.855	13.877	(1.586)	344961	47.3984	47.4	
* 91 1,4-Dichlorobenzene-D4	152	15.535	15.557	(1.000)	389750	50.0000		


Data File: \\target_server\GC\chem\gcms-d.i\D100312.b\D2103.D
Date : 03-OCT-2012 12:10
Client ID: WG114326-Blank
Sample Info: WG114326-2,SF6628
Instrument: gcms-d.i
Y (x10^6)
Min
-Dibromofluoromethane (7.435)
-Pentafluorobenzene (8.078)+
-1,4-Difluorobenzene (8.736)
Toluene-D8 (10.352)
Chlorobenzene-D5 (12.218)
-P-Bromofluorobenzene (13.855)
1,4-Dichlorobenzene-D4 (15.536)
\\target_server\GC\chem\gcms-d.i\D100312.b\D2103.D

Report of Analytical Results

Client:
Lab ID: WG114400-2
Client ID: Method Blank Sample
Project:
SDG: SF6628
Lab File ID: D2129.D

Sample Date:
Received Date:
Extract Date: 04-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114400

Analysis Date: 04-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5

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Report of Analytical Results

Client:
Lab ID: WG114400-2
Client ID: Method Blank Sample
Project:
SDG: SF6628
Lab File ID: D2129.D

Sample Date:
Received Date:
Extract Date: 04-OCT-12
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114400

Analysis Date: 04-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		104.	%					
Toluene-d8		103.	%					
P-Bromofluorobenzene		98.7	%					
Dibromofluoromethane		104.	%					

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Data File: \\target_server\GG\chem\gcms-d.i\D100412.b\D2129.D
Report Date: 15-Oct-2012 11:33

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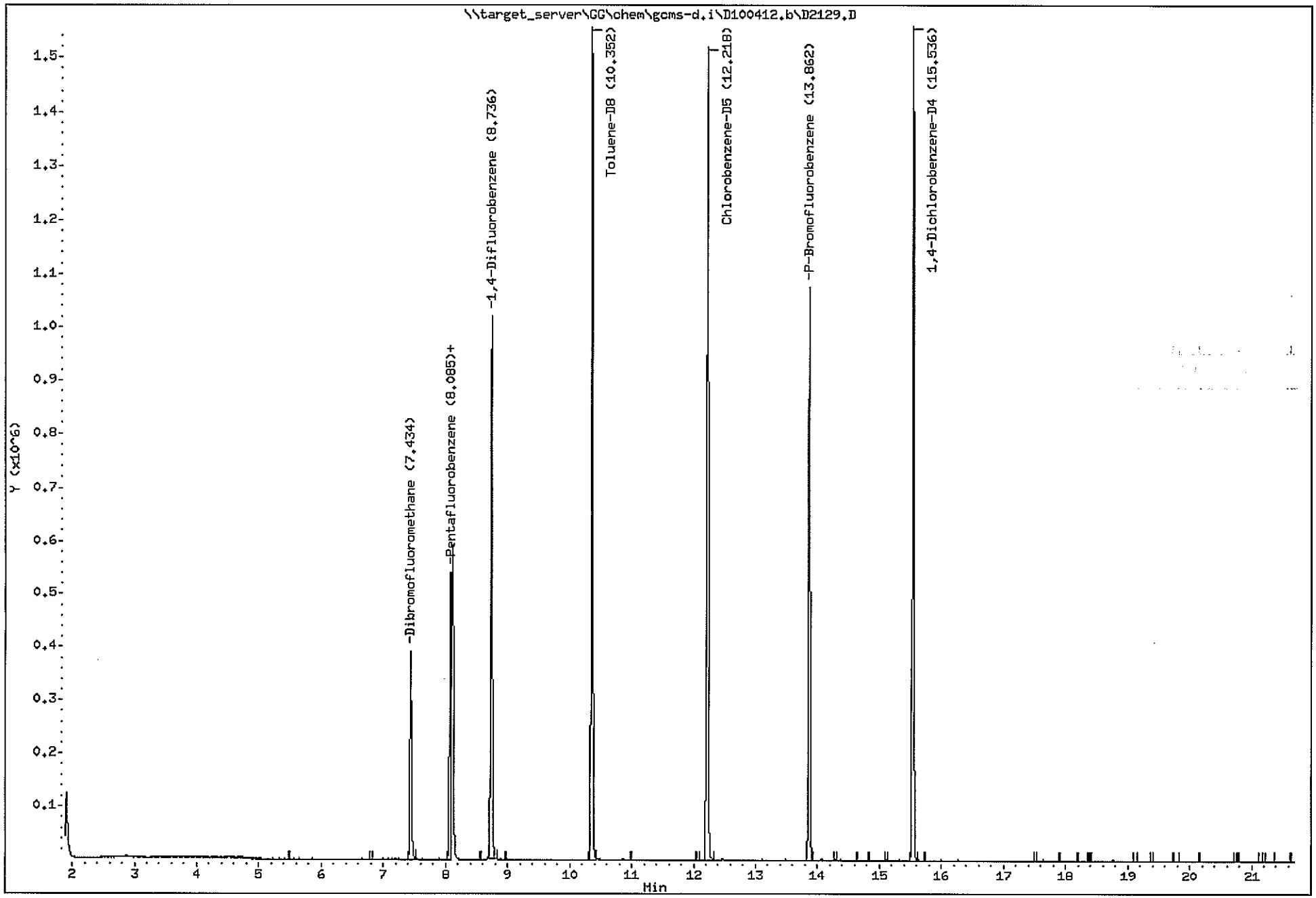
Data file : \\target_server\GG\chem\gcms-d.i\D100412.b\D2129.D
Lab Smp Id: WG114400-2 Client Smp ID: WG114400-Blank
Inj Date : 04-OCT-2012 14:37 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114400-2,SF6628
Misc Info : WG114400,WG114145-4-4,SF6628-7
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D100412.b\D826A10.m
Meth Date : 15-Oct-2012 11:26 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 6 QC Sample: BLANK
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
$ 37 Dibromofluoromethane	113	7.434	7.463	(0.920)	225114	52.1513	52.2	
* 42 Pentafluorobenzene	168	8.085	8.100	(1.000)	435905	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.113	8.143	(1.004)	303478	52.0760	52.1	
* 49 1,4-Difluorobenzene	114	8.735	8.757	(1.000)	753858	50.0000		
$ 55 Toluene-D8	98	10.351	10.373	(1.185)	932757	51.4258	51.4	
* 66 Chlorobenzene-D5	117	12.217	12.240	(1.000)	730880	50.0000		
$ 76 P-Bromofluorobenzene	95	13.862	13.877	(1.587)	370009	49.3645	49.4	
* 91 1,4-Dichlorobenzene-D4	152	15.535	15.557	(1.000)	408643	50.0000		

Data File: \\target_server\GG\chem\gcms-d.i\D100412.b\D2129.D
Date : 04-OCT-2012 14:37
Client ID: WG114400-Blank
Instrument: gcms-d.i
Sample Info: WG114400-2,SF6628



Katahdin Analytical Services 1000198

LCS Recovery Report

Client:
Lab ID: WG114264-1
Client ID: LCS
Project:
SDG: SF6628

Sample Date:
Received Date: 02-OCT-12
Extract Date:
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	163.	50.0	81.5	ug/L	29-164
Chloromethane	109.	50.0	54.3	ug/L	59-123
Vinyl Chloride	117.	50.0	58.7	ug/L	64-131
Bromomethane	97.2	50.0	48.6	ug/L	57-135
Chloroethane	108.	50.0	53.9	ug/L	53-157
Trichlorofluoromethane	121.	50.0	60.4	ug/L	70-149
1,1-Dichloroethene	116.	50.0	57.8	ug/L	88-127
Freon-113	119.	50.0	59.7	ug/L	73-126
Acetone	112.	50.0	56.2	ug/L	62-172
Carbon Disulfide	110.	50.0	55.0	ug/L	71-129
Methyl Acetate	107.	50.0	53.7	ug/L	70-132
Methylene Chloride	105.	50.0	52.7	ug/L	72-129
trans-1,2-Dichloroethene	104.	50.0	51.8	ug/L	78-125
Methyl tert-butyl Ether	104.	100.	104.	ug/L	81-125
1,1-Dichloroethane	106.	50.0	53.1	ug/L	76-130
cis-1,2-Dichloroethene	107.	50.0	53.4	ug/L	85-123
2-Butanone	91.8	50.0	45.9	ug/L	71-132
Chloroform	105.	50.0	52.5	ug/L	78-128
1,1,1-Trichloroethane	102.	50.0	51.0	ug/L	77-129
Cyclohexane	113.	50.0	56.6	ug/L	71-133
Carbon Tetrachloride	105.	50.0	52.4	ug/L	87-126
Benzene	104.	50.0	52.0	ug/L	86-116
1,2-Dichloroethane	103.	50.0	51.5	ug/L	81-125
Trichloroethene	95.8	50.0	47.9	ug/L	79-121
Methylcyclohexane	116.	50.0	58.1	ug/L	73-125
1,2-Dichloropropane	107.	50.0	53.5	ug/L	84-118
Bromodichloromethane	113.	50.0	56.3	ug/L	85-122
cis-1,3-Dichloropropene	108.	50.0	54.2	ug/L	83-119
4-Methyl-2-Pentanone	* 72.2	50.0	36.1	ug/L	83-122
Toluene	103.	50.0	51.6	ug/L	84-118
trans-1,3-Dichloropropene	100.	50.0	50.2	ug/L	85-135
1,1,2-Trichloroethane	102.	50.0	51.1	ug/L	84-115
Tetrachloroethene	93.4	50.0	46.7	ug/L	47-155
2-Hexanone	* 76.0	50.0	38.0	ug/L	80-124
Dibromochloromethane	95.0	50.0	47.5	ug/L	85-119

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LCS Recovery Report

Client:
Lab ID: WG114264-1
Client ID: LCS
Project:
SDG: SF6628

Sample Date:
Received Date: 02-OCT-12
Extract Date:
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,2-Dibromoethane	101.	50.0	50.4	ug/L	84-116
Chlorobenzene	105.	50.0	52.4	ug/L	89-113
Ethylbenzene	95.4	50.0	47.7	ug/L	88-113
M+P-Xylenes	100.	100.	100.	ug/L	88-116
o-Xylene	105.	50.0	52.6	ug/L	90-116
Styrene	104.	50.0	52.1	ug/L	88-117
Bromoform	* 86.0	50.0	43.0	ug/L	86-117
Isopropylbenzene	104.	50.0	51.9	ug/L	96-136
1,1,2,2-Tetrachloroethane	90.2	50.0	45.1	ug/L	79-121
1,3-Dichlorobenzene	105.	50.0	52.7	ug/L	86-110
1,4-Dichlorobenzene	95.0	50.0	47.5	ug/L	86-111
1,2-Dichlorobenzene	100.	50.0	50.0	ug/L	86-112
1,2-Dibromo-3-Chloropropane	83.0	50.0	41.5	ug/L	67-124
1,2,4-Trichlorobenzene	92.2	50.0	46.1	ug/L	76-126
bromochloromethane	106.	50.0	52.9	ug/L	85-117
1,4-Dioxane	26.4	1000	264.	ug/L	10-149
1,2,3-trichlorobenzene	93.8	50.0	46.9	ug/L	70-122
1,3,5-Trimethylbenzene	97.0	50.0	48.5	ug/L	80-123
1,2,4-Trimethylbenzene	99.0	50.0	49.5	ug/L	83-118
4-Chlorotoluene	104.	50.0	52.1	ug/L	81-122
n-Butylbenzene	97.4	50.0	48.7	ug/L	84-121
n-Propylbenzene	104.	50.0	52.0	ug/L	83-121
Naphthalene	86.6	50.0	43.3	ug/L	62-126
p-Isopropyltoluene	105.	50.0	52.6	ug/L	88-121
sec-Butylbenzene	103.	50.0	51.4	ug/L	82-122
tert-Butylbenzene	105.	50.0	52.4	ug/L	84-121
1,2-Dichloroethane-d4	102.				67-135
Toluene-d8	102.				65-128
P-Bromofluorobenzene	102.				56-133
Dibromofluoromethane	104.				68-128

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Data File: \\target_server\GG\chem\gcms-d.i\D100212.b\D2060.D
Report Date: 15-Oct-2012 11:08

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Data file : \\target_server\GG\chem\gcms-d.i\D100212.b\D2060.D
Lab Smp Id: WG114264-1 Client Smp ID: WG114264-LCS
Inj Date : 02-OCT-2012 11:06 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114264-1,SF6628
Misc Info : WG114264,WG114145-4,SF6628-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D100212.b\D826A10.m
Meth Date : 15-Oct-2012 11:00 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.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	2.096	2.108	(0.259)	432447	81.4887	81.5(R)	
2	Chloromethane	50	2.332	2.344	(0.289)	533578	54.2759	54.3	
3	Vinyl chloride	62	2.432	2.444	(0.301)	439367	58.7305	58.7	
4	Bromomethane	94	2.833	2.844	(0.351)	138410	48.6127	48.6	
5	Chloroethane	64	2.997	3.009	(0.371)	258330	53.9478	53.9	
6	Trichlorofluoromethane	101	3.183	3.195	(0.394)	555975	60.4308	60.4	
7	Diethyl Ether	59	3.584	3.602	(0.443)	297448	55.3781	55.4	
8	Tertiary-butyl alcohol	59	5.864	5.890	(0.726)	131653	272.537	272	
9	1,1-Dichloroethene	96	3.862	3.874	(0.478)	276877	57.8006	57.8	
10	Carbon Disulfide	76	3.898	3.917	(0.482)	986852	54.9837	55.0	
11	Freon-113	151	3.927	3.945	(0.486)	204264	59.7499	59.7	
12	Iodomethane	142	4.056	4.074	(0.502)	114539	33.6820	33.7	
13	Acrolein	56	4.334	4.360	(0.536)	132543	249.849	250	
14	Methylene Chloride	84	4.742	4.761	(0.587)	324780	52.7480	52.7	
15	Acetone	43	4.813	4.832	(0.596)	89881	56.2322	56.2	
16	Isobutyl Alcohol	43	8.267	8.286	(1.023)	89374	617.653	618	
17	trans-1,2-Dichloroethene	96	5.014	5.039	(0.620)	309783	51.8073	51.8	
18	Allyl Chloride	41	4.570	4.589	(0.566)	632869	56.6546	56.6	
19	Methyl tert-butyl ether	73	5.221	5.240	(0.646)	1508203	103.577	104	
20	Acetonitrile	39	5.571	5.597	(0.689)	70261	492.831	493	
21	Di-isopropyl ether	45	5.872	5.890	(0.727)	1388914	55.0253	55.0	
22	Chloroprene	53	5.986	6.005	(0.741)	692926	53.0487	53.0	
23	Propionitrile	54	7.974	7.992	(0.987)	369761	505.407	505	
24	Methacrylonitrile	41	8.010	8.028	(0.991)	2286524	550.945	551	

Data File: \\target_server\GG\chem\gcms-d.i\D100212.b\D2060.D
Report Date: 15-Oct-2012 11:08

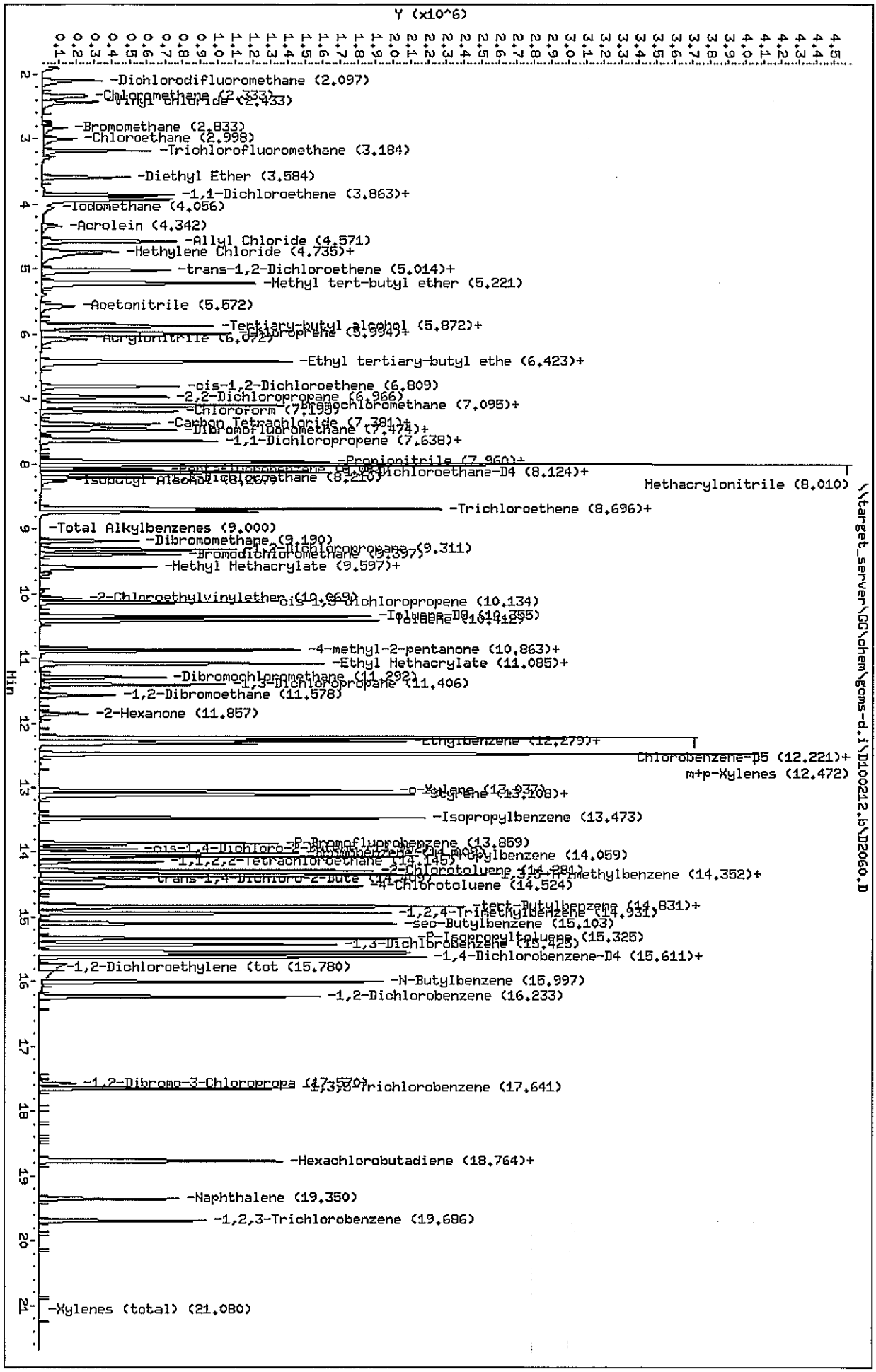
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.015	6.033	(0.744)	614827	53.1403	53.1	
	26 Acrylonitrile	52	6.072	6.098	(0.751)	242046	261.401	261	
	27 Ethyl tertiary-butyl ether	59	6.422	6.441	(0.795)	1024817	54.4291	54.4	
	28 Vinyl Acetate	43	6.422	6.441	(0.735)	933526	56.1493	56.1	
	29 cis-1,2-Dichloroethene	96	6.808	6.827	(0.843)	328095	53.3612	53.4	
M	30 1,2-Dichloroethylene (total)	96				637878	105.168	105	
	31 Methyl Methacrylate	41	9.597	9.615	(1.098)	311928	47.5687	47.6	
	32 2,2-Dichloropropane	77	6.966	6.984	(0.862)	419825	49.4813	49.5	
	33 Bromochloromethane	128	7.080	7.099	(0.876)	138403	52.9164	52.9	
	34 Chloroform	83	7.202	7.220	(0.891)	543989	52.5157	52.5	
	35 Carbon Tetrachloride	117	7.380	7.399	(0.845)	397627	52.4546	52.4	
	36 Tetrahydrofuran	42	7.409	7.420	(0.917)	78041	45.7199	45.7	
$	37 Dibromofluoromethane	113	7.438	7.463	(0.920)	284694	52.0586	52.0	
	38 1,1,1-Trichloroethane	97	7.473	7.492	(0.925)	474901	50.9867	51.0	
	39 1,1-Dichloropropene	75	7.638	7.656	(0.874)	443736	51.2330	51.2	
	40 2-Butanone	43	7.609	7.628	(0.942)	123703	45.9424	45.9	
	41 Benzene	78	7.959	7.978	(0.911)	1280036	51.9899	52.0	
*	42 Pentafluorobenzene	168	8.081	8.100	(1.000)	552256	50.0000		
	43 Cyclohexane	56	7.101	7.120	(0.879)	623404	56.5772	56.6	
	44 Ethyl Methacrylate	69	11.091	11.103	(1.269)	365349	49.0132	49.0	
$	45 1,2-Dichloroethane-D4	65	8.124	8.143	(1.005)	376475	50.9915	51.0	
	46 Tertiary-amyl methyl ether	73	8.131	8.150	(1.006)	747862	52.5173	52.5	
	47 1,2-Dichloroethane	62	8.210	8.228	(0.939)	468156	51.5102	51.5	
	48 Trichloroethene	95	8.696	8.715	(0.995)	324088	47.9471	47.9	
*	49 1,4-Difluorobenzene	114	8.739	8.757	(1.000)	907258	50.0000		
	50 Dibromomethane	93	9.189	9.208	(1.052)	185473	51.5352	51.5	
	51 1,2-Dichloropropane	63	9.311	9.329	(1.065)	338157	53.5301	53.5	
	52 Bromodichloromethane	83	9.397	9.415	(1.075)	442848	56.2934	56.3	
	53 cis-1,3-dichloropropene	75	10.133	10.152	(1.160)	540942	54.1536	54.2	
	54 1,4-Dioxane	88	9.633	9.651	(1.102)	28464	264.320	264	
$	55 Toluene-D8	98	10.355	10.373	(1.185)	1119317	51.2772	51.3	
	56 2-Chloroethylvinylether	63	10.069	10.087	(1.152)	74070	44.4645	44.5	
	57 Toluene	92	10.419	10.431	(1.192)	822882	51.5938	51.6	
	58 4-methyl-2-pentanone	43	10.848	10.867	(1.241)	289021	36.1391	36.1	
	59 Tetrachloroethene	164	10.862	10.881	(0.889)	249815	46.6719	46.7	
	60 trans-1,3-Dichloropropene	75	10.891	10.910	(1.246)	460619	50.2271	50.2	
	61 1,1,2-Trichloroethane	83	11.077	11.096	(1.268)	221037	51.1426	51.1	
	62 Dibromochloromethane	129	11.291	11.310	(0.924)	317001	47.5074	47.5	
	63 1,3-Dichloropropane	76	11.406	11.424	(0.933)	490740	48.6045	48.6	
	64 1,2-Dibromoethane	107	11.577	11.596	(1.325)	264444	50.3674	50.4	
	65 2-Hexanone	43	11.856	11.875	(0.970)	188340	38.0068	38.0	
*	66 Chlorobenzene-D5	117	12.221	12.240	(1.000)	872178	50.0000		
	67 Chlorobenzene	112	12.242	12.261	(1.002)	898859	52.3973	52.4	
	152 1-Chlorohexane	91	12.221	12.240	(1.000)	470627	46.8689	46.9	
	68 Ethylbenzene	106	12.285	12.304	(1.005)	470024	47.6620	47.7	
	69 1,1,1,2-Tetrachloroethane	131	12.321	12.340	(1.008)	306951	52.9709	53.0	
M	70 Xylenes (total)	106				1784477	153.011	153	
	71 m+p-Xylenes	106	12.471	12.490	(1.020)	1203143	100.364	100	
	72 o-Xylene	106	13.043	13.062	(1.067)	581334	52.6469	52.6	
	73 Styrene	104	13.108	13.126	(1.073)	999009	52.0673	52.1	
	74 Bromoform	173	13.136	13.155	(1.075)	182011	43.0335	43.0	
	75 Isopropylbenzene	105	13.472	13.491	(0.867)	1459986	51.9025	51.9	
$	76 P-Bromofluorobenzene	95	13.858	13.877	(1.586)	458825	50.8637	50.9	
	77 cis-1,4-Dichloro-2-Butene	53	13.951	13.970	(0.898)	133169	48.4199	48.4	

Data File: \\target_server\GG\chem\gcms-d.i\D100212.b\D2060.D
Report Date: 15-Oct-2012 11:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.409	14.427	(0.927)	133346	49.4517	49.4	
79	Bromobenzene	156	14.008	14.027	(0.902)	363932	49.3075	49.3	
80	N-Propylbenzene	91	14.059	14.077	(0.905)	1797200	52.0160	52.0	
81	1,1,2,2-Tetrachloroethane	83	14.144	14.163	(0.910)	338209	45.1348	45.1	
82	1,3,5-Trimethylbenzene	105	14.352	14.370	(0.924)	1194721	48.4881	48.5	
83	2-Chlorotoluene	91	14.280	14.299	(0.919)	1073888	51.0373	51.0	
84	1,2,3-Trichloropropane	75	14.345	14.363	(0.923)	283853	46.5393	46.5	
85	4-Chlorotoluene	91	14.523	14.542	(0.935)	1129096	52.1384	52.1	
86	tert-Butylbenzene	119	14.824	14.842	(0.954)	1215822	52.4335	52.4	
87	Pentachloroethane	117	14.845	14.864	(0.955)	271669	53.7044	53.7	
88	1,2,4-Trimethylbenzene	105	14.938	14.949	(0.961)	1208319	49.4608	49.5	
89	P-Isopropyltoluene	119	15.324	15.343	(0.986)	1302044	52.6339	52.6	
90	1,3-Dichlorobenzene	146	15.424	15.443	(0.993)	720038	52.6760	52.7	
* 91	1,4-Dichlorobenzene-D4	152	15.539	15.557	(1.000)	502313	50.0000		
92	1,4-Dichlorobenzene	146	15.560	15.579	(1.001)	719143	47.5027	47.5	
93	N-Butylbenzene	91	15.996	16.015	(1.029)	1158931	48.7401	48.7	
94	sec-Butylbenzene	105	15.102	15.114	(0.972)	1559079	51.4255	51.4	
95	1,2-Dichlorobenzene	146	16.232	16.251	(1.045)	645519	50.0087	50.0	
96	1,2-Dibromo-3-Chloropropane	75	17.562	17.581	(1.130)	50827	41.4970	41.5	
97	1,3,5-Trichlorobenzene	180	17.641	17.659	(1.135)	457362	48.7688	48.8	
98	Hexachlorobutadiene	225	18.749	18.760	(1.207)	163122	47.3182	47.3	
99	1,2,4-Trichlorobenzene	180	18.770	18.789	(1.208)	350106	46.1176	46.1	
100	1,2,3-Trimethylbenzene	105	15.610	15.629	(1.005)	1298954	51.9897	52.0	
101	Naphthalene	128	19.350	19.368	(1.245)	632815	43.2740	43.3	
102	1,2,3-Trichlorobenzene	180	19.686	19.704	(1.267)	291245	46.8660	46.9	
103	Methyl Acetate	43	5.042	5.068	(0.624)	251365	53.7339	53.7	
104	Methylcyclohexane	83	8.689	8.707	(1.075)	533157	58.0882	58.1	
M 153	Total Alkylbenzenes	100				9436116	355.198	355	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.



Data File: \\target_server\GC\chem\gcms-d.i\D100212.b\D2060.D
Date : 02-OCT-2012 11:06
Client ID: WG114264-LCS
Sample Info: WG114264-1,SF6628
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-d.i
Operator: REC
Column diameter: 0.18

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LCS Recovery Report

Client:
Lab ID: WG114326-1
Client ID: LCS
Project:
SDG: SF6628

Sample Date:
Received Date: 03-OCT-12
Extract Date:
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	141.	50.0	70.4	ug/L	29-164
Chloromethane	107.	50.0	53.7	ug/L	59-123
Vinyl Chloride	113.	50.0	56.6	ug/L	64-131
Bromomethane	128.	50.0	64.1	ug/L	57-135
Chloroethane	106.	50.0	52.8	ug/L	53-157
Trichlorofluoromethane	114.	50.0	57.2	ug/L	70-149
1,1-Dichloroethene	105.	50.0	52.6	ug/L	88-127
Freon-113	107.	50.0	53.4	ug/L	73-126
Acetone	95.4	50.0	47.7	ug/L	62-172
Carbon Disulfide	103.	50.0	51.5	ug/L	71-129
Methyl Acetate	92.2	50.0	46.1	ug/L	70-132
Methylene Chloride	100.	50.0	50.0	ug/L	72-129
trans-1,2-Dichloroethene	94.0	50.0	47.0	ug/L	78-125
Methyl tert-butyl Ether	94.2	100.	94.2	ug/L	81-125
1,1-Dichloroethane	98.8	50.0	49.4	ug/L	76-130
cis-1,2-Dichloroethene	98.8	50.0	49.4	ug/L	85-123
2-Butanone	88.8	50.0	44.4	ug/L	71-132
Chloroform	99.4	50.0	49.7	ug/L	78-128
1,1,1-Trichloroethane	92.6	50.0	46.3	ug/L	77-129
Cyclohexane	101.	50.0	50.6	ug/L	71-133
Carbon Tetrachloride	95.4	50.0	47.7	ug/L	87-126
Benzene	96.4	50.0	48.2	ug/L	86-116
1,2-Dichloroethane	97.6	50.0	48.8	ug/L	81-125
Trichloroethene	88.2	50.0	44.1	ug/L	79-121
Methylcyclohexane	103.	50.0	51.5	ug/L	73-125
1,2-Dichloropropane	98.2	50.0	49.1	ug/L	84-118
Bromodichloromethane	107.	50.0	53.3	ug/L	85-122
cis-1,3-Dichloropropene	101.	50.0	50.4	ug/L	83-119
4-Methyl-2-Pentanone	* 69.8	50.0	34.9	ug/L	83-122
Toluene	95.2	50.0	47.6	ug/L	84-118
trans-1,3-Dichloropropene	94.6	50.0	47.3	ug/L	85-135
1,1,2-Trichloroethane	99.6	50.0	49.8	ug/L	84-115
Tetrachloroethene	85.2	50.0	42.6	ug/L	47-155
2-Hexanone	* 71.4	50.0	35.7	ug/L	80-124
Dibromochloromethane	88.8	50.0	44.4	ug/L	85-119

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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LCS Recovery Report

Client:
Lab ID: WG114326-1
Client ID: LCS
Project:
SDG: SF6628

Sample Date:
Received Date: 03-OCT-12
Extract Date:
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114326

Analysis Date: 03-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,2-Dibromoethane	96.0	50.0	48.0	ug/L	84-116
Chlorobenzene	98.8	50.0	49.4	ug/L	89-113
Ethylbenzene	* 87.8	50.0	43.9	ug/L	88-113
M+P-Xylenes	92.3	100.	92.3	ug/L	88-116
o-Xylene	97.4	50.0	48.7	ug/L	90-116
Styrene	97.8	50.0	48.9	ug/L	88-117
Bromoform	* 82.6	50.0	41.3	ug/L	86-117
Isopropylbenzene	* 94.4	50.0	47.2	ug/L	96-136
1,1,2,2-Tetrachloroethane	85.8	50.0	42.9	ug/L	79-121
1,3-Dichlorobenzene	97.8	50.0	48.9	ug/L	86-110
1,4-Dichlorobenzene	89.6	50.0	44.8	ug/L	86-111
1,2-Dichlorobenzene	97.6	50.0	48.8	ug/L	86-112
1,2-Dibromo-3-Chloropropane	82.8	50.0	41.4	ug/L	67-124
1,2,4-Trichlorobenzene	86.4	50.0	43.2	ug/L	76-126
bromochloromethane	101.	50.0	50.4	ug/L	85-117
1,4-Dioxane	26.2	1000	262.	ug/L	10-149
1,2,3-trichlorobenzene	89.6	50.0	44.8	ug/L	70-122
1,3,5-Trimethylbenzene	88.6	50.0	44.3	ug/L	80-123
1,2,4-Trimethylbenzene	91.0	50.0	45.5	ug/L	83-118
4-Chlorotoluene	96.0	50.0	48.0	ug/L	81-122
n-Butylbenzene	92.8	50.0	46.4	ug/L	84-121
n-Propylbenzene	95.0	50.0	47.5	ug/L	83-121
Naphthalene	78.0	50.0	39.0	ug/L	62-126
p-Isopropyltoluene	96.2	50.0	48.1	ug/L	88-121
sec-Butylbenzene	93.2	50.0	46.6	ug/L	82-122
tert-Butylbenzene	95.8	50.0	47.9	ug/L	84-121
1,2-Dichloroethane-d4	100.				67-135
Toluene-d8	99.6				65-128
P-Bromofluorobenzene	96.8				56-133
Dibromofluoromethane	102.				68-128

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Data File: \\target_server\GG\chem\gcms-d.i\D100312.b\D2100.D
Report Date: 15-Oct-2012 11:20

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D100312.b\D2100.D
Lab Smp Id: WG114326-1 Client Smp ID: WG114326-LCS
Inj Date : 03-OCT-2012 10:33 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114326-1,SF6628
Misc Info : WG114326,WG114145-4,SF6628-7
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-d.i\D100312.b\D826A10.m
Meth Date : 15-Oct-2012 11:10 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.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

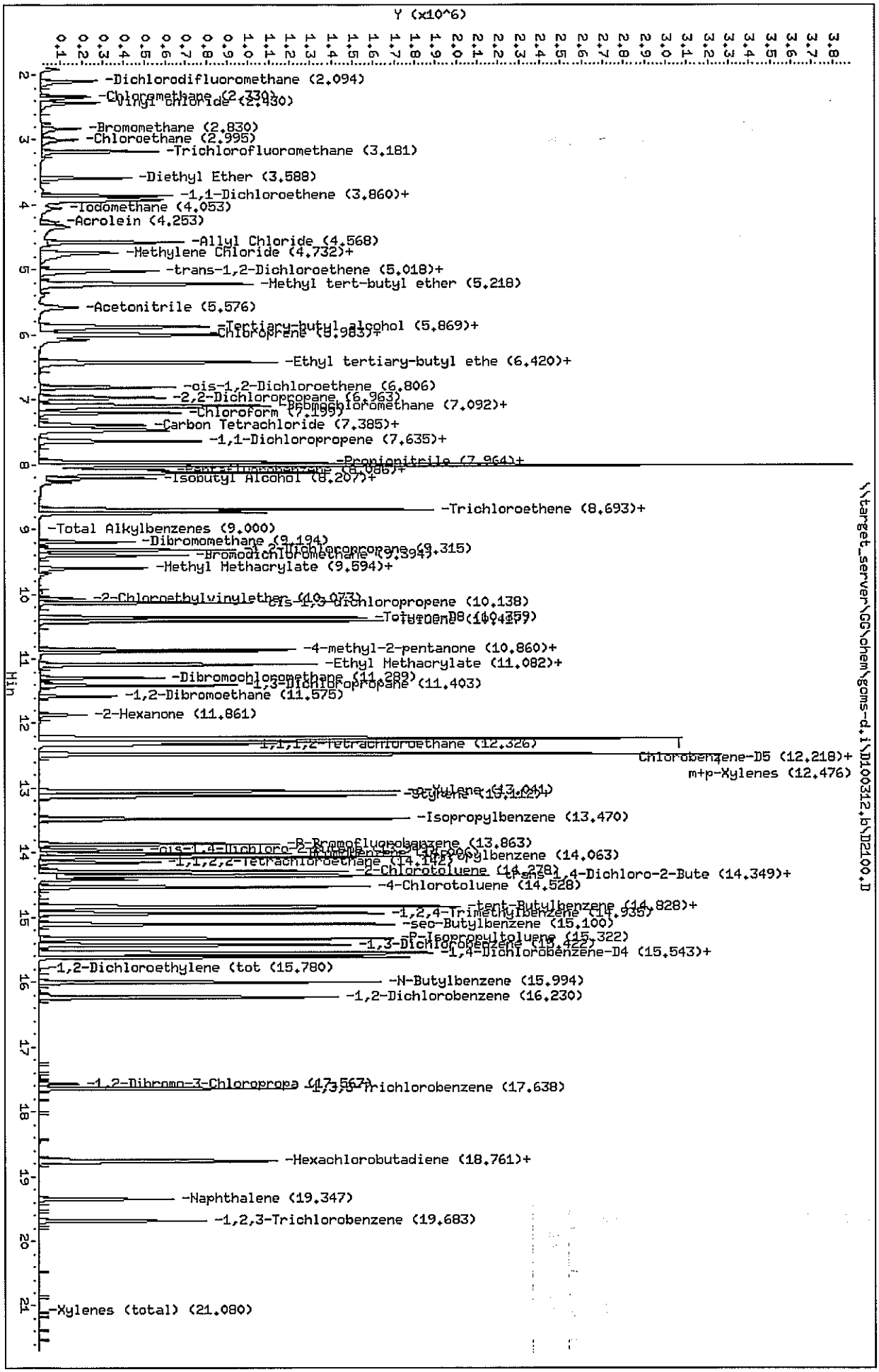
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.093	2.108	(0.259)	327345	70.3736	70.4	
2 Chloromethane	50	2.329	2.344	(0.288)	461709	53.6759	53.7	
3 Vinyl chloride	62	2.429	2.444	(0.301)	370472	56.5970	56.6	
4 Bromomethane	94	2.830	2.844	(0.350)	161247	64.1414	64.1	
5 Chloroethane	64	2.994	3.009	(0.370)	221068	52.7627	52.8	
6 Trichlorofluoromethane	101	3.180	3.195	(0.393)	460448	57.1986	57.2	
7 Diethyl Ether	59	3.588	3.602	(0.444)	250075	53.2107	53.2	
8 Tertiary-butyl alcohol	59	5.869	5.890	(0.726)	107146	253.497	253	
9 1,1-Dichloroethene	96	3.859	3.874	(0.477)	220298	52.5603	52.6	
10 Carbon Disulfide	76	3.895	3.917	(0.482)	808147	51.4605	51.5	
11 Freon-113	151	3.931	3.945	(0.486)	159632	53.3663	53.4	
12 Iodomethane	142	4.052	4.074	(0.501)	152440	52.1807	52.2	
13 Acrolein	56	4.338	4.360	(0.537)	113841	245.257	245	
14 Methylene Chloride	84	4.739	4.761	(0.586)	269491	50.0222	50.0	
15 Acetone	43	4.818	4.832	(0.596)	66670	47.6704	47.7	
16 Isobutyl Alcohol	43	8.264	8.286	(1.022)	92352	729.426	729	
17 trans-1,2-Dichloroethene	96	5.018	5.039	(0.621)	246162	47.0496	47.0	
18 Allyl Chloride	41	4.567	4.589	(0.565)	535983	54.8371	54.8	
19 Methyl tert-butyl ether	73	5.218	5.240	(0.645)	1200580	94.2319	94.2	
20 Acetonitrile	39	5.575	5.597	(0.690)	65871	528.104	528	
21 Di-isopropyl ether	45	5.869	5.890	(0.726)	1121727	50.7897	50.8	
22 Chloroprene	53	5.983	6.005	(0.740)	564634	49.4034	49.4	
23 Propionitrile	54	7.971	7.992	(0.986)	323230	504.933	505	
24 Methacrylonitrile	41	8.006	8.028	(0.990)	1946767	536.104	536	

Data File: \\target_server\GG\chem\gcms-d.i\D100312.b\D2100.D
Report Date: 15-Oct-2012 11:20

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	6.012	6.033	(0.744)	500005	49.3909	49.4	
	26	Acrylonitrile	52	6.076	6.098	(0.752)	205725	253.920	254	
	27	Ethyl tertiary-butyl ether	59	6.426	6.441	(0.795)	807346	49.0057	49.0	
	28	Vinyl Acetate	43	6.419	6.441	(0.735)	768936	52.3608	52.4	
	29	cis-1,2-Dichloroethene	96	6.812	6.827	(0.843)	265969	49.4377	49.4	
M	30	1,2-Dichloroethylene (total)	96				512131	96.4873	96.5	
	31	Methyl Methacrylate	41	9.594	9.615	(1.098)	259256	44.8572	44.8	
	32	2,2-Dichloropropane	77	6.963	6.984	(0.861)	333319	44.8988	44.9	
	33	Bromochloromethane	128	7.084	7.099	(0.876)	115410	50.4301	50.4	
	34	Chloroform	83	7.199	7.220	(0.890)	450840	49.7420	49.7	
	35	Carbon Tetrachloride	117	7.384	7.399	(0.845)	319682	47.7446	47.7	
	36	Tetrahydrofuran	42	7.413	7.420	(0.917)	69084	46.2553	46.2	
$	37	Dibromofluoromethane	113	7.442	7.463	(0.920)	245104	51.2231	51.2	
	38	1,1,1-Trichloroethane	97	7.470	7.492	(0.924)	377434	46.3123	46.3	
	39	1,1-Dichloropropene	75	7.642	7.656	(0.875)	353408	46.1955	46.2	
	40	2-Butanone	43	7.613	7.628	(0.942)	104666	44.4264	44.4	
	41	Benzene	78	7.964	7.978	(0.912)	1048239	48.2009	48.2	
*	42	Pentafluorobenzene	168	8.085	8.100	(1.000)	483213	50.0000		
	43	Cyclohexane	56	7.098	7.120	(0.878)	487469	50.5615	50.6	
	44	Ethyl Methacrylate	69	11.088	11.103	(1.269)	296669	45.1432	45.1	
$	45	1,2-Dichloroethane-D4	65	8.121	8.143	(1.004)	323095	50.0142	50.0	
	46	Tertiary-amyl methyl ether	73	8.128	8.150	(1.005)	592761	47.5732	47.6	
	47	1,2-Dichloroethane	62	8.207	8.228	(0.939)	391628	48.7837	48.8	
	48	Trichloroethene	95	8.693	8.715	(0.995)	263460	44.1278	44.1	
*	49	1,4-Difluorobenzene	114	8.736	8.757	(1.000)	801369	50.0000		
	50	Dibromomethane	93	9.186	9.208	(1.052)	153638	48.3304	48.3	
	51	1,2-Dichloropropane	63	9.315	9.329	(1.066)	274070	49.1178	49.1	
	52	Bromodichloromethane	83	9.394	9.415	(1.075)	370471	53.3157	53.3	
	53	cis-1,3-dichloropropene	75	10.137	10.152	(1.160)	444464	50.3746	50.4	
	54	1,4-Dioxane	88	9.637	9.651	(1.103)	24883	261.598	262	
$	55	Toluene-D8	98	10.359	10.373	(1.186)	959967	49.7881	49.8	
	56	2-Chloroethylvinylether	63	10.073	10.087	(1.153)	70762	48.8168	48.8	
	57	Toluene	92	10.416	10.431	(1.192)	670359	47.5845	47.6	
	58	4-methyl-2-pentanone	43	10.852	10.867	(1.242)	248706	34.8862	34.9	
	59	Tetrachloroethene	164	10.867	10.881	(0.889)	203249	42.6340	42.6	
	60	trans-1,3-Dichloropropene	75	10.888	10.910	(1.246)	382488	47.2922	47.3	
	61	1,1,2-Trichloroethane	83	11.074	11.096	(1.268)	190098	49.7959	49.8	
	62	Dibromochloromethane	129	11.288	11.310	(0.924)	263205	44.4189	44.4	
	63	1,3-Dichloropropane	76	11.403	11.424	(0.933)	410933	45.6970	45.7	
	64	1,2-Dibromoethane	107	11.574	11.596	(1.325)	222486	47.9752	48.0	
	65	2-Hexanone	43	11.860	11.875	(0.971)	158288	35.6758	35.7	
*	66	Chlorobenzene-D5	117	12.218	12.240	(1.000)	776808	50.0000		
	67	Chlorobenzene	112	12.239	12.261	(1.002)	754182	49.3611	49.4	
	152	1-Chlorohexane	91	12.218	12.240	(1.000)	369206	41.2827	41.3	
	68	Ethylbenzene	106	12.282	12.304	(1.005)	385911	43.9370	43.9	
	69	1,1,1,2-Tetrachloroethane	131	12.325	12.340	(1.009)	254010	49.2165	49.2	
M	70	Xylenes (total)	106				1464872	141.044	141	
	71	m+p-Xylenes	106	12.475	12.490	(1.021)	985574	92.3082	92.3	
	72	o-Xylene	106	13.040	13.062	(1.067)	479298	48.7354	48.7	
	73	Styrene	104	13.112	13.126	(1.073)	836487	48.9493	48.9	
	74	Bromoform	173	13.133	13.155	(1.075)	155287	41.3287	41.3	
	75	Isopropylbenzene	105	13.469	13.491	(0.867)	1195744	47.2454	47.2	
$	76	P-Bromofluorobenzene	95	13.862	13.877	(1.587)	385674	48.4038	48.4	
	77	cis-1,4-Dichloro-2-Butene	53	13.948	13.970	(0.898)	111123	44.9063	44.9	

Data File: \\target_server\GG\chem\gcms-d.i\D100312.b\D2100.D
Report Date: 15-Oct-2012 11:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.406	14.427	(0.927)	108440	44.6964	44.7	
79	Bromobenzene	156	14.013	14.027	(0.902)	308439	46.4455	46.4	
80	N-Propylbenzene	91	14.063	14.077	(0.905)	1475662	47.4689	47.5	
81	1,1,2,2-Tetrachloroethane	83	14.148	14.163	(0.911)	289053	42.8732	42.9	
82	1,3,5-Trimethylbenzene	105	14.349	14.370	(0.924)	981341	44.2660	44.3	
83	2-Chlorotoluene	91	14.284	14.299	(0.919)	872936	46.1098	46.1	
84	1,2,3-Trichloropropane	75	14.342	14.363	(0.923)	238754	43.5070	43.5	
85	4-Chlorotoluene	91	14.527	14.542	(0.935)	934922	47.9826	48.0	
86	tert-Butylbenzene	119	14.828	14.842	(0.954)	998555	47.8622	47.9	
87	Pentachloroethane	117	14.842	14.864	(0.955)	224917	49.4167	49.4	
88	1,2,4-Trimethylbenzene	105	14.935	14.949	(0.961)	999672	45.4799	45.5	
89	P-Isopropyltoluene	119	15.328	15.343	(0.987)	1069799	48.0645	48.1	
90	1,3-Dichlorobenzene	146	15.421	15.443	(0.993)	601888	48.9390	48.9	
* 91	1,4-Dichlorobenzene-D4	152	15.536	15.557	(1.000)	451952	50.0000		
92	1,4-Dichlorobenzene	146	15.557	15.579	(1.001)	609667	44.7588	44.8	
93	N-Butylbenzene	91	15.993	16.015	(1.029)	993147	46.4220	46.4	
94	sec-Butylbenzene	105	15.099	15.114	(0.972)	1270613	46.5807	46.6	
95	1,2-Dichlorobenzene	146	16.229	16.251	(1.045)	566209	48.7523	48.8	
96	1,2-Dibromo-3-Chloropropane	75	17.559	17.581	(1.130)	45669	41.4433	41.4	
97	1,3,5-Trichlorobenzene	180	17.638	17.659	(1.135)	386569	45.8133	45.8	
98	Hexachlorobutadiene	225	18.746	18.760	(1.207)	133512	43.1196	43.1	
99	1,2,4-Trichlorobenzene	180	18.767	18.789	(1.208)	295146	43.2102	43.2	
100	1,2,3-Trimethylbenzene	105	15.607	15.629	(1.005)	1077418	47.9280	47.9	
101	Naphthalene	128	19.347	19.368	(1.245)	512391	39.0577	39.0	
102	1,2,3-Trichlorobenzene	180	19.683	19.704	(1.267)	250295	44.7645	44.8	
103	Methyl Acetate	43	5.046	5.068	(0.624)	188534	46.0612	46.1	
104	Methylcyclohexane	83	8.693	8.707	(1.075)	413368	51.4721	51.5	
M 153	Total Alkylbenzenes	100				7788789	326.144	326	



Data File: \\target_server\GC\chem\gcms-d.i\D100312.b\D2100.D
Date : 03-OCT-2012 10:33
Client ID: WG114326-LCS
Sample Info: WG114326-1,SF6628
Purge Volume: 5.0
Column phase: RTX-VMS

\\target_server\GC\chem\gcms-d.i\D100312.b\D2100.D

Instrument: gcms-d.i
Operator: REC
Column diameter: 0.18

LCS Recovery Report

Client:
Lab ID: WG114400-1
Client ID: LCS
Project:
SDG: SF6628

Sample Date:
Received Date: 04-OCT-12
Extract Date:
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114400

Analysis Date: 04-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	148.	50.0	74.1	ug/L	29-164
Chloromethane	107.	50.0	53.6	ug/L	59-123
Vinyl Chloride	115.	50.0	57.4	ug/L	64-131
Bromomethane	120.	50.0	60.2	ug/L	57-135
Chloroethane	104.	50.0	51.8	ug/L	53-157
Trichlorofluoromethane	113.	50.0	56.4	ug/L	70-149
1,1-Dichloroethene	103.	50.0	51.5	ug/L	88-127
Freon-113	113.	50.0	56.7	ug/L	73-126
Acetone	128.	50.0	64.0	ug/L	62-172
Carbon Disulfide	99.2	50.0	49.6	ug/L	71-129
Methyl Acetate	90.8	50.0	45.4	ug/L	70-132
Methylene Chloride	98.0	50.0	49.0	ug/L	72-129
trans-1,2-Dichloroethene	93.8	50.0	46.9	ug/L	78-125
Methyl tert-butyl Ether	96.0	100.	96.0	ug/L	81-125
1,1-Dichloroethane	100.	50.0	50.1	ug/L	76-130
cis-1,2-Dichloroethene	99.2	50.0	49.6	ug/L	85-123
2-Butanone	103.	50.0	51.4	ug/L	71-132
Chloroform	99.0	50.0	49.5	ug/L	78-128
1,1,1-Trichloroethane	95.0	50.0	47.5	ug/L	77-129
Cyclohexane	105.	50.0	52.7	ug/L	71-133
Carbon Tetrachloride	95.4	50.0	47.7	ug/L	87-126
Benzene	97.2	50.0	48.6	ug/L	86-116
1,2-Dichloroethane	98.0	50.0	49.0	ug/L	81-125
Trichloroethene	90.2	50.0	45.1	ug/L	79-121
Methylcyclohexane	112.	50.0	56.0	ug/L	73-125
1,2-Dichloropropane	102.	50.0	51.1	ug/L	84-118
Bromodichloromethane	106.	50.0	53.2	ug/L	85-122
cis-1,3-Dichloropropene	102.	50.0	51.2	ug/L	83-119
4-Methyl-2-Pentanone	* 69.8	50.0	34.9	ug/L	83-122
Toluene	97.4	50.0	48.7	ug/L	84-118
trans-1,3-Dichloropropene	97.2	50.0	48.6	ug/L	85-135
1,1,2-Trichloroethane	99.4	50.0	49.7	ug/L	84-115
Tetrachloroethene	87.6	50.0	43.8	ug/L	47-155
2-Hexanone	* 79.0	50.0	39.5	ug/L	80-124
Dibromochloromethane	88.0	50.0	44.0	ug/L	85-119

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LCS Recovery Report

Client:
Lab ID: WG114400-1
Client ID: LCS
Project:
SDG: SF6628

Sample Date:
Received Date: 04-OCT-12
Extract Date:
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114400

Analysis Date: 04-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-OCT-12

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,2-Dibromoethane	99.0	50.0	49.5	ug/L	84-116
Chlorobenzene	97.8	50.0	48.9	ug/L	89-113
Ethylbenzene	90.6	50.0	45.3	ug/L	88-113
M+P-Xylenes	93.6	100.	93.6	ug/L	88-116
o-Xylene	98.8	50.0	49.4	ug/L	90-116
Styrene	97.8	50.0	48.9	ug/L	88-117
Bromoform	* 80.2	50.0	40.1	ug/L	86-117
Isopropylbenzene	96.2	50.0	48.1	ug/L	96-136
1,1,2,2-Tetrachloroethane	85.6	50.0	42.8	ug/L	79-121
1,3-Dichlorobenzene	99.8	50.0	49.9	ug/L	86-110
1,4-Dichlorobenzene	90.8	50.0	45.4	ug/L	86-111
1,2-Dichlorobenzene	100.	50.0	50.0	ug/L	86-112
1,2-Dibromo-3-Chloropropane	78.8	50.0	39.4	ug/L	67-124
1,2,4-Trichlorobenzene	91.6	50.0	45.8	ug/L	76-126
bromochloromethane	105.	50.0	52.5	ug/L	85-117
1,4-Dioxane	30.6	1000	306.	ug/L	10-149
1,2,3-trichlorobenzene	98.0	50.0	49.0	ug/L	70-122
1,3,5-Trimethylbenzene	88.8	50.0	44.4	ug/L	80-123
1,2,4-Trimethylbenzene	91.6	50.0	45.8	ug/L	83-118
4-Chlorotoluene	96.6	50.0	48.3	ug/L	81-122
n-Butylbenzene	93.0	50.0	46.5	ug/L	84-121
n-Propylbenzene	96.4	50.0	48.2	ug/L	83-121
Naphthalene	87.8	50.0	43.9	ug/L	62-126
p-Isopropyltoluene	97.6	50.0	48.8	ug/L	88-121
sec-Butylbenzene	94.2	50.0	47.1	ug/L	82-122
tert-Butylbenzene	96.6	50.0	48.3	ug/L	84-121
1,2-Dichloroethane-d4	100.				67-135
Toluene-d8	103.				65-128
P-Bromofluorobenzene	102.				56-133
Dibromofluoromethane	101.				68-128

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Data File: \\target_server\GG\chem\gcms-d.i\D100412.b\D2126.D
Report Date: 15-Oct-2012 11:33

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D100412.b\D2126.D
Lab Smp Id: WG114400-1 Client Smp ID: WG114400-LCS
Inj Date : 04-OCT-2012 12:06 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114400-1,SF6628
Misc Info : WG114400,WG114145-4,SF6628-7
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D100412.b\D826A10.m
Meth Date : 15-Oct-2012 11:26 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 3 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	2.094	2.108	(0.259)	362367	74.1399	74.1	
2	Chloromethane	50	2.330	2.344	(0.288)	484473	53.5669	53.6	
3	Vinyl chloride	62	2.430	2.444	(0.301)	395095	57.4058	57.4	
4	Bromomethane	94	2.830	2.844	(0.350)	158856	60.1864	60.2	
5	Chloroethane	64	2.988	3.009	(0.370)	228337	51.8314	51.8	
6	Trichlorofluoromethane	101	3.174	3.195	(0.393)	477463	56.4106	56.4	
7	Diethyl Ether	59	3.588	3.602	(0.444)	248774	50.3442	50.3	
8	Tertiary-butyl alcohol	59	5.869	5.890	(0.726)	111455	250.791	251	
9	1,1-Dichloroethene	96	3.853	3.874	(0.477)	227176	51.5496	51.5	
10	Carbon Disulfide	76	3.896	3.917	(0.482)	818462	49.5677	49.6	
11	Freon-113	151	3.924	3.945	(0.485)	178307	56.6933	56.7	
12	Iodomethane	142	4.053	4.074	(0.501)	216599	72.6916	72.7	
13	Acrolein	56	4.339	4.360	(0.537)	114711	235.041	235	
14	Methylene Chloride	84	4.732	4.761	(0.585)	277695	49.0233	49.0	
15	Acetone	43	4.811	4.832	(0.595)	94133	64.0142	64.0	
16	Isobutyl Alcohol	43	8.265	8.286	(1.022)	98425	739.361	739	
17	trans-1,2-Dichloroethene	96	5.011	5.039	(0.620)	258221	46.9399	46.9	
18	Allyl Chloride	41	4.568	4.589	(0.565)	508603	49.4901	49.5	
19	Methyl tert-butyl ether	73	5.219	5.240	(0.645)	1286210	96.0141	96.0	
20	Acetonitrile	39	5.569	5.597	(0.689)	63920	487.339	487	
21	Di-isopropyl ether	45	5.869	5.890	(0.726)	1174390	50.5728	50.6	
22	Chloroprene	53	5.984	6.005	(0.740)	599667	49.9018	49.9	
23	Propionitrile	54	7.971	7.992	(0.986)	329879	490.109	490	
24	Methacrylonitrile	41	8.007	8.028	(0.990)	1987670	520.589	520	

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Report Date: 15-Oct-2012 11:33

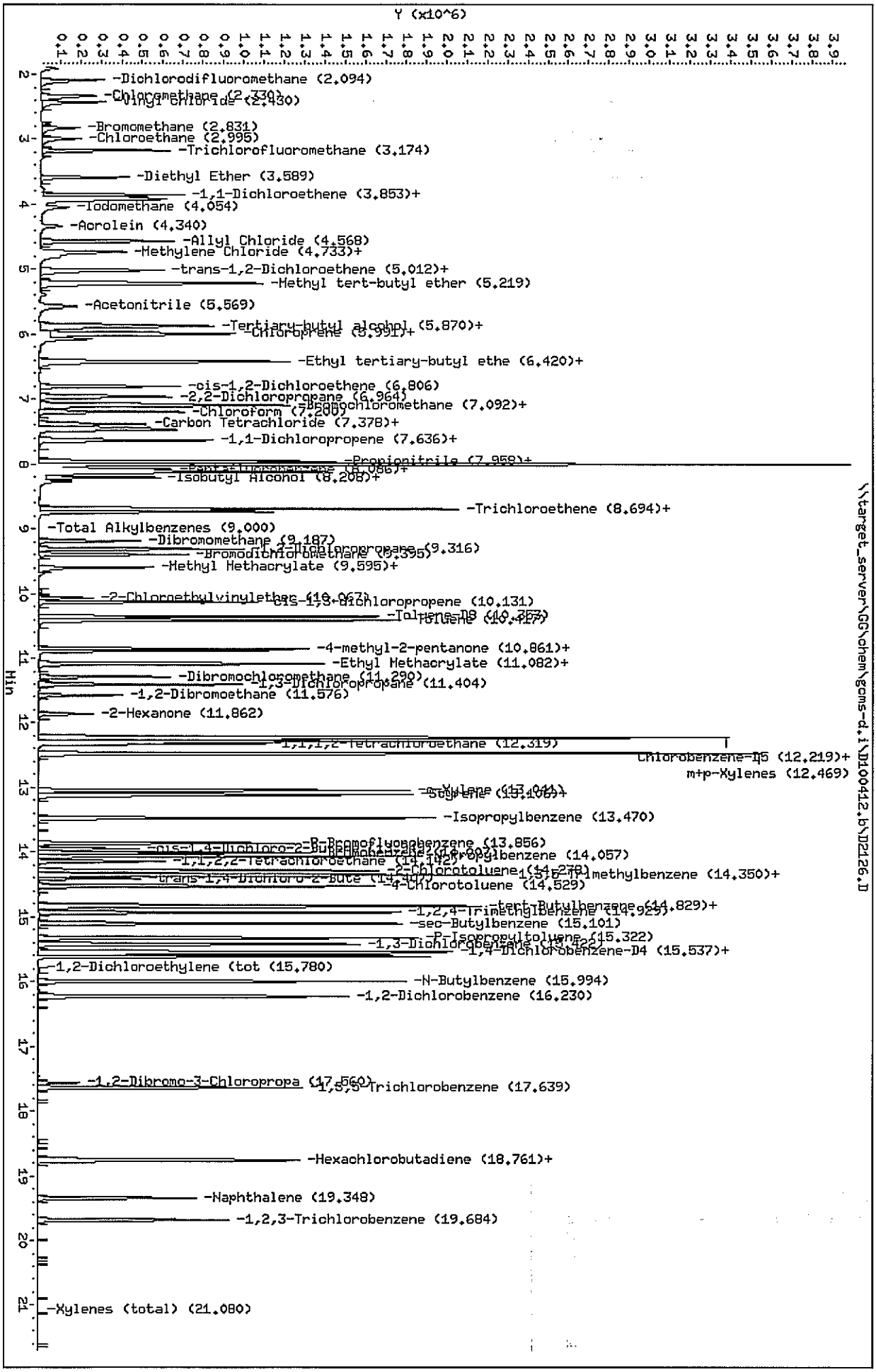
		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	6.012	6.033	(0.744)	532973	50.0719	50.1	
	26	Acrylonitrile	52	6.077	6.098	(0.752)	203217	238.554	238	
	27	Ethyl tertiary-butyl ether	59	6.420	6.441	(0.794)	851091	49.1336	49.1	
	28	Vinyl Acetate	43	6.420	6.441	(0.735)	824778	53.4647	53.5	
	29	cis-1,2-Dichloroethene	96	6.806	6.827	(0.842)	280736	49.6297	49.6	
M	30	1,2-Dichloroethylene (total)	96				538957	96.5696	96.6	
	31	Methyl Methacrylate	41	9.594	9.615	(1.098)	264360	43.5906	43.6	
	32	2,2-Dichloropropane	77	6.963	6.984	(0.861)	362626	46.4569	46.4	
	33	Bromochloromethane	128	7.078	7.099	(0.875)	126252	52.4687	52.5	
	34	Chloroform	83	7.199	7.220	(0.890)	471477	49.4740	49.5	
	35	Carbon Tetrachloride	117	7.378	7.399	(0.845)	335456	47.6931	47.7	
	36	Tetrahydrofuran	42	7.406	7.420	(0.916)	73339	46.7019	46.7	
$	37	Dibromofluoromethane	113	7.442	7.463	(0.920)	254943	50.6728	50.7	
	38	1,1,1-Trichloroethane	97	7.471	7.492	(0.924)	407410	47.5448	47.5	
	39	1,1-Dichloropropene	75	7.635	7.656	(0.874)	383180	47.6804	47.7	
	40	2-Butanone	43	7.607	7.628	(0.941)	127262	51.3748	51.4	
	41	Benzene	78	7.957	7.978	(0.911)	1111356	48.6477	48.6	
*	42	Pentafluorobenzene	168	8.086	8.100	(1.000)	508069	50.0000		
	43	Cyclohexane	56	7.099	7.120	(0.878)	534085	52.6865	52.7	
	44	Ethyl Methacrylate	69	11.089	11.103	(1.269)	312889	45.3194	45.3	
$	45	1,2-Dichloroethane-D4	65	8.122	8.143	(1.004)	340604	50.1452	50.1	
	46	Tertiary-amyl methyl ether	73	8.129	8.150	(1.005)	620676	47.3766	47.4	
	47	1,2-Dichloroethane	62	8.207	8.228	(0.939)	412861	48.9574	49.0	
	48	Trichloroethene	95	8.694	8.715	(0.995)	282677	45.0715	45.1	
*	49	1,4-Difluorobenzene	114	8.736	8.757	(1.000)	841819	50.0000		
	50	Dibromomethane	93	9.187	9.208	(1.052)	167813	50.2529	50.2	
	51	1,2-Dichloropropane	63	9.316	9.329	(1.066)	299750	51.1388	51.1	
	52	Bromodichloromethane	83	9.394	9.415	(1.075)	388506	53.2246	53.2	
	53	cis-1,3-dichloropropene	75	10.131	10.152	(1.160)	474846	51.2320	51.2	
	54	1,4-Dioxane	88	9.637	9.651	(1.103)	30604	306.284	306	
$	55	Toluene-D8	98	10.359	10.373	(1.186)	1039826	51.3386	51.3	
	56	2-Chloroethylvinylether	63	10.073	10.087	(1.153)	86731	58.7929	58.8	
	57	Toluene	92	10.417	10.431	(1.192)	720690	48.6991	48.7	
	58	4-methyl-2-pentanone	43	10.853	10.867	(1.242)	261511	34.9317	34.9(R)	
	59	Tetrachloroethene	164	10.860	10.881	(0.889)	223545	43.7604	43.8	
	60	trans-1,3-Dichloropropene	75	10.889	10.910	(1.246)	413006	48.5775	48.6	
	61	1,1,2-Trichloroethane	83	11.075	11.096	(1.268)	199271	49.6906	49.7	
	62	Dibromochloromethane	129	11.289	11.310	(0.924)	279524	44.0403	44.0	
	63	1,3-Dichloropropane	76	11.403	11.424	(0.933)	442987	45.9722	46.0	
	64	1,2-Dibromoethane	107	11.575	11.596	(1.325)	241230	49.5175	49.5	
	65	2-Hexanone	43	11.861	11.875	(0.971)	186140	39.4771	39.5(R)	
*	66	Chlorobenzene-D5	117	12.219	12.240	(1.000)	832388	50.0000		
	67	Chlorobenzene	112	12.240	12.261	(1.002)	801034	48.9269	48.9	
	152	1-Chlorohexane	91	12.219	12.240	(1.000)	412396	43.0330	43.0	
	68	Ethylbenzene	106	12.283	12.304	(1.005)	426600	45.3265	45.3	
	69	1,1,1,2-Tetrachloroethane	131	12.319	12.340	(1.008)	272043	49.1909	49.2	
M	70	Xylenes (total)	106				1591812	143.031	143	
	71	m+p-Xylenes	106	12.469	12.490	(1.020)	1071155	93.6249	93.6	
	72	o-Xylene	106	13.041	13.062	(1.067)	520657	49.4058	49.4	
	73	Styrene	104	13.105	13.126	(1.073)	894768	48.8636	48.9	
	74	Bromoform	173	13.134	13.155	(1.075)	161313	40.1428	40.1(R)	
	75	Isopropylbenzene	105	13.470	13.491	(0.867)	1301329	48.0924	48.1	
$	76	P-Bromofluorobenzene	95	13.856	13.877	(1.586)	424895	50.7638	50.8	
	77	cis-1,4-Dichloro-2-Butene	53	13.949	13.970	(0.898)	115308	43.5843	43.6	

Data File: \\target_server\GG\chem\gcms-d.i\D100412.b\D2126.D
Report Date: 15-Oct-2012 11:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.406	14.427	(0.927)	114084	43.9821	44.0	
	79 Bromobenzene	156	14.006	14.027	(0.902)	332954	46.8951	46.9	
	80 N-Propylbenzene	91	14.056	14.077	(0.905)	1600626	48.1593	48.2	
	81 1,1,2,2-Tetrachloroethane	83	14.142	14.163	(0.910)	308223	42.7604	42.8	
	82 1,3,5-Trimethylbenzene	105	14.349	14.370	(0.924)	1053720	44.4574	44.4	
	83 2-Chlorotoluene	91	14.278	14.299	(0.919)	951856	47.0273	47.0	
	84 1,2,3-Trichloropropane	75	14.342	14.363	(0.923)	254911	43.4475	43.4	
	85 4-Chlorotoluene	91	14.528	14.542	(0.935)	1006444	48.3133	48.3	
	86 tert-Butylbenzene	119	14.821	14.842	(0.954)	1077926	48.3257	48.3	
	87 Pentachloroethane	117	14.843	14.864	(0.955)	234410	48.1721	48.2	
	88 1,2,4-Trimethylbenzene	105	14.928	14.949	(0.961)	1075267	45.7558	45.8	
	89 P-Isopropyltoluene	119	15.322	15.343	(0.986)	1161870	48.8256	48.8	
	90 1,3-Dichlorobenzene	146	15.422	15.443	(0.993)	655829	49.8767	49.9	
*	91 1,4-Dichlorobenzene-D4	152	15.536	15.557	(1.000)	483197	50.0000		
	92 1,4-Dichlorobenzene	146	15.558	15.579	(1.001)	662002	45.4583	45.4	
	93 N-Butylbenzene	91	15.994	16.015	(1.029)	1063135	46.4801	46.5	
	94 sec-Butylbenzene	105	15.100	15.114	(0.972)	1374318	47.1246	47.1	
	95 1,2-Dichlorobenzene	146	16.230	16.251	(1.045)	620719	49.9898	50.0	
	96 1,2-Dibromo-3-Chloropropane	75	17.560	17.581	(1.130)	46268	39.3764	39.4	
	97 1,3,5-Trichlorobenzene	180	17.638	17.659	(1.135)	416855	46.2080	46.2	
	98 Hexachlorobutadiene	225	18.747	18.760	(1.207)	149410	45.0950	45.1	
	99 1,2,4-Trichlorobenzene	180	18.768	18.789	(1.208)	334868	45.8555	45.8	
	100 1,2,3-Trimethylbenzene	105	15.608	15.629	(1.005)	1124580	46.7912	46.8	
	101 Naphthalene	128	19.347	19.368	(1.245)	617211	43.8608	43.9	
	102 1,2,3-Trichlorobenzene	180	19.683	19.704	(1.267)	293145	49.0379	49.0	
	103 Methyl Acetate	43	5.047	5.068	(0.624)	195561	45.4405	45.4	
	104 Methylcyclohexane	83	8.686	8.707	(1.074)	472461	55.9521	56.0	
M	153 Total Alkylbenzenes	100				8406862	329.129	329	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.



Data File: \\target_server\GC\chem\gcms-d.i\D100412.b\D2126.D
Date : 04-OCT-2012 12:06
Client ID: WG114400-LCS
Sample Info: WG114400-1,SF6628
Purge Volume: 5.0
Column phase: RTX-VMS

\\target_server\GC\chem\gcms-d.i\D100412.b\D2126.D

Instrument: gcms-d.i
Operator: REC
Column diameter: 0.18

MS/MSD Recovery Report

MS ID: WG114264-5
MSD ID: WG114264-6
Sample ID: SF6628-6
Client ID: AOC9-MW17PM092612
Project:
SDG: SF6628

Received Date: 27-SEP-12
Extract Date: 02-oct-2012 20:28
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264
Report Date: 17-OCT-12

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Dichlorodifluoromethane	50.0	50.0	ug/L	UMM2.0	89.8	90.6	180.*	181.*	1	20	29-164
Chloromethane	50.0	50.0	ug/L	U2.0	58.7	59.8	117.	120.	2	20	59-123
Vinyl Chloride	50.0	50.0	ug/L	MM2.5	69.7	70.5	134.*	136.*	1	20	64-131
Bromomethane	50.0	50.0	ug/L	UC2.0	51.2	54.1	102.	108.	6	20	57-135
Chloroethane	50.0	50.0	ug/L	U2.0	56.9	58.7	114.	117.	3	20	53-157
Trichlorofluoromethane	50.0	50.0	ug/L	U2.0	67.7	67.5	135.	135.	0	20	70-149
1,1-Dichloroethene	50.0	50.0	ug/L	U1.0	59.5	62.2	119.	124.	4	20	88-127
Freon-113	50.0	50.0	ug/L	UMM1.0	64.3	63.0	129.*	126.*	2	20	73-126
Acetone	50.0	50.0	ug/L	U5.0	47.1	51.8	94.2	104.	10	20	62-172
Carbon Disulfide	50.0	50.0	ug/L	U1.0	59.6	60.2	119.	120.	1	20	71-129
Methyl Acetate	50.0	50.0	ug/L	U1.0	50.9	51.3	102.	103.	1	20	70-132
Methylene Chloride	50.0	50.0	ug/L	U5.0	52.9	52.9	106.	106.	0	20	72-129
trans-1,2-Dichloroethene	50.0	50.0	ug/L	J0.62	53.3	54.3	105.	107.	2	20	78-125
Methyl tert-butyl Ether	100.	100.	ug/L	U1.0	106.	110.	106.	110.	4	20	81-125
1,1-Dichloroethane	50.0	50.0	ug/L	U1.0	55.1	56.6	110.	113.	3	20	76-130
cis-1,2-Dichloroethene	50.0	50.0	ug/L	5.2	58.3	60.0	106.	110.	3	20	85-123
2-Butanone	50.0	50.0	ug/L	U5.0	49.8	52.4	99.6	105.	5	20	71-132
Chloroform	50.0	50.0	ug/L	U1.0	54.2	54.3	108.	109.	0	20	78-128
1,1,1-Trichloroethane	50.0	50.0	ug/L	U1.0	54.4	55.6	109.	111.	2	20	77-129
Cyclohexane	50.0	50.0	ug/L	U1.0	63.5	64.5	127.	129.	2	20	71-133
Carbon Tetrachloride	50.0	50.0	ug/L	U1.0	56.2	57.5	112.	115.	2	20	87-126
Benzene	50.0	50.0	ug/L	1.6	56.0	55.9	109.	109.	0	20	86-116
1,2-Dichloroethane	50.0	50.0	ug/L	U1.0	53.9	54.4	108.	109.	1	20	81-125
Trichloroethene	50.0	50.0	ug/L	19.	70.2	73.6	102.	109.	5	20	79-121
Methylcyclohexane	50.0	50.0	ug/L	UMM1.0	62.9	62.3	126.*	125.*	1	20	73-125
1,2-Dichloropropane	50.0	50.0	ug/L	U1.0	55.1	55.8	110.	112.	1	20	84-118
Bromodichloromethane	50.0	50.0	ug/L	U1.0	58.0	58.2	116.	116.	0	20	85-122
cis-1,3-Dichloropropene	50.0	50.0	ug/L	U1.0	52.2	52.6	104.	105.	1	20	83-119
4-Methyl-2-Pentanone	50.0	50.0	ug/L	UL5.0	42.4	44.3	84.8	88.6	4	20	83-122
Toluene	50.0	50.0	ug/L	U1.0	53.5	54.5	107.	109.	2	20	84-118
trans-1,3-Dichloropropene	50.0	50.0	ug/L	U1.0	50.1	51.3	100.	103.	2	20	85-135
1,1,2-Trichloroethane	50.0	50.0	ug/L	U1.0	54.2	54.5	108.	109.	0	20	84-115
Tetrachloroethene	50.0	50.0	ug/L	2.2	49.0	50.4	93.6	96.4	3	20	47-155
2-Hexanone	50.0	50.0	ug/L	UL5.0	40.3	42.7	80.6	85.4	6	20	80-124

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MS/MSD Recovery Report

MS ID: WG114264-5
MSD ID: WG114264-6
Sample ID: SF6628-6
Client ID: AOC9-MW17PM092612
Project:
SDG: SF6628

Received Date: 27-SEP-12
Extract Date: 02-oct-2012 20:28
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG114264
Report Date: 17-OCT-12

Analysis Date: 02-OCT-12
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Dibromochloromethane	50.0	50.0	ug/L	U1.0	47.9	47.2	95.8	94.4	1	20	85-119
1,2-Dibromoethane	50.0	50.0	ug/L	U1.0	53.0	53.6	106.	107.	1	20	84-116
Chlorobenzene	50.0	50.0	ug/L	MM300	357.	338.	114*	76*	5	20	89-113
Ethylbenzene	50.0	50.0	ug/L	U1.0	48.1	47.6	96.2	95.2	1	20	88-113
M+P-Xylenes	100.	100.	ug/L	U2.0	102.	101.	102.	101.	1	20	88-116
o-Xylene	50.0	50.0	ug/L	U1.0	52.4	52.1	105.	104.	0	20	90-116
Styrene	50.0	50.0	ug/L	U1.0	52.0	51.5	104.	103.	1	20	88-117
Bromoform	50.0	50.0	ug/L	UL1.0	44.1	43.3	88.2	86.6	2	20	86-117
Isopropylbenzene	50.0	50.0	ug/L	U1.0	53.8	54.4	108.	109.	1	20	96-136
1,1,2,2-Tetrachloroethane	50.0	50.0	ug/L	U1.0	48.3	49.4	96.6	98.8	2	20	79-121
1,3-Dichlorobenzene	50.0	50.0	ug/L	1.7	54.6	55.1	106.	107.	1	20	86-110
1,4-Dichlorobenzene	50.0	50.0	ug/L	22.	69.2	69.5	94.8	95.4	0	20	86-111
1,2-Dichlorobenzene	50.0	50.0	ug/L	91.	135.	142.	87.2	101.	5	20	86-112
1,2-Dibromo-3-Chloropropane	50.0	50.0	ug/L	U1.0	47.0	49.1	94.0	98.2	4	20	67-124
1,2,4-Trichlorobenzene	50.0	50.0	ug/L	U1.0	48.4	48.6	96.8	97.2	0	20	76-126
bromochloromethane	50.0	50.0	ug/L	U1.0	54.1	56.1	108.	112.	4	20	85-117
1,4-Dioxane	1000	1000	ug/L	UC100	322.	382.	32.2	38.2	17	20	10-149
1,2,3-trichlorobenzene	50.0	50.0	ug/L	U1.0	51.7	52.3	103.	105.	1	20	70-122
1,3,5-Trimethylbenzene	50.0	50.0	ug/L	U1.0	49.2	49.6	98.4	99.2	1	20	80-123
1,2,4-Trimethylbenzene	50.0	50.0	ug/L	U1.0	49.8	50.5	99.6	101.	1	20	83-118
4-Chlorotoluene	50.0	50.0	ug/L	U1.0	52.7	53.2	105.	106.	1	20	81-122
n-Butylbenzene	50.0	50.0	ug/L	U1.0	50.5	50.9	101.	102.	1	20	84-121
n-Propylbenzene	50.0	50.0	ug/L	U1.0	54.1	53.6	108.	107.	1	20	83-121
Naphthalene	50.0	50.0	ug/L	U1.0	48.7	50.3	97.4	101.	3	20	62-126
p-Isopropyltoluene	50.0	50.0	ug/L	U1.0	53.4	54.0	107.	108.	1	20	88-121
sec-Butylbenzene	50.0	50.0	ug/L	U1.0	53.3	53.5	107.	107.	0	20	82-122
tert-Butylbenzene	50.0	50.0	ug/L	U1.0	54.5	54.8	109.	110.	0	20	84-121
1,2-Dichloroethane-d4							103.	103.			67-135
Toluene-d8							102.	102.			65-128
P-Bromofluorobenzene							99.3	102.			56-133
Dibromofluoromethane							103.	101.			68-128

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Data File: \\target_server\GG\chem\gcms-d.i\D100212.b\D2079.D
Report Date: 15-Oct-2012 11:08

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D100212.b\D2079.D
Lab Smp Id: WG114264-5
Inj Date : 02-OCT-2012 20:28 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114264-5,SF6628
Misc Info : WG114264,WG114145-4,SF6628-6
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D100212.b\D826A10.m
Meth Date : 15-Oct-2012 11:00 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 21 QC Sample: MS
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	2.093	2.108	(0.259)	420839	89.7780	89.8(R)	
2	Chloromethane	50	2.329	2.344	(0.288)	510524	58.7311	58.7	
3	Vinyl chloride	62	2.429	2.444	(0.300)	460913	69.6784	69.7	
4	Bromomethane	94	2.829	2.844	(0.350)	129172	51.1939	51.2	
5	Chloroethane	64	2.994	3.009	(0.370)	241032	56.9268	56.9	
6	Trichlorofluoromethane	101	3.180	3.195	(0.393)	550429	67.6624	67.7	
7	Diethyl Ether	59	3.587	3.602	(0.444)	271581	57.1833	57.2	
8	Tertiary-butyl alcohol	59	5.875	5.890	(0.727)	118229	276.797	277	
9	1,1-Dichloroethene	96	3.859	3.874	(0.477)	252073	59.5134	59.5	
10	Carbon Disulfide	76	3.895	3.917	(0.482)	946016	59.6106	59.6	
11	Freon-113	151	3.931	3.945	(0.486)	194274	64.2693	64.3(R)	
12	Iodomethane	142	4.052	4.074	(0.501)	125606	42.0265	42.0	
13	Acrolein	56	4.338	4.360	(0.537)	117660	250.837	251	
14	Methylene Chloride	84	4.739	4.761	(0.586)	287943	52.8891	52.9	
15	Acetone	43	4.817	4.832	(0.596)	66554	47.0906	47.1	
16	Isobutyl Alcohol	43	8.271	8.286	(1.023)	102715	802.805	803	
17	trans-1,2-Dichloroethene	96	5.017	5.039	(0.621)	282017	53.3398	53.3	
18	Allyl Chloride	41	4.567	4.589	(0.565)	537921	54.4607	54.5	
19	Methyl tert-butyl ether	73	5.218	5.240	(0.645)	1362250	105.805	106	
20	Acetonitrile	39	5.575	5.597	(0.690)	68307	541.933	542	
21	Di-isopropyl ether	45	5.868	5.890	(0.726)	1252980	56.1402	56.1	
22	Chloroprene	53	5.990	6.005	(0.741)	679665	58.8473	58.8	
23	Propionitrile	54	7.978	7.992	(0.987)	356705	551.407	551	
24	Methacrylonitrile	41	8.006	8.028	(0.990)	2216195	603.926	604	

Data File: \\target_server\GG\chem\gcms-d.i\D100212.b\D2079.D
Report Date: 15-Oct-2012 11:08

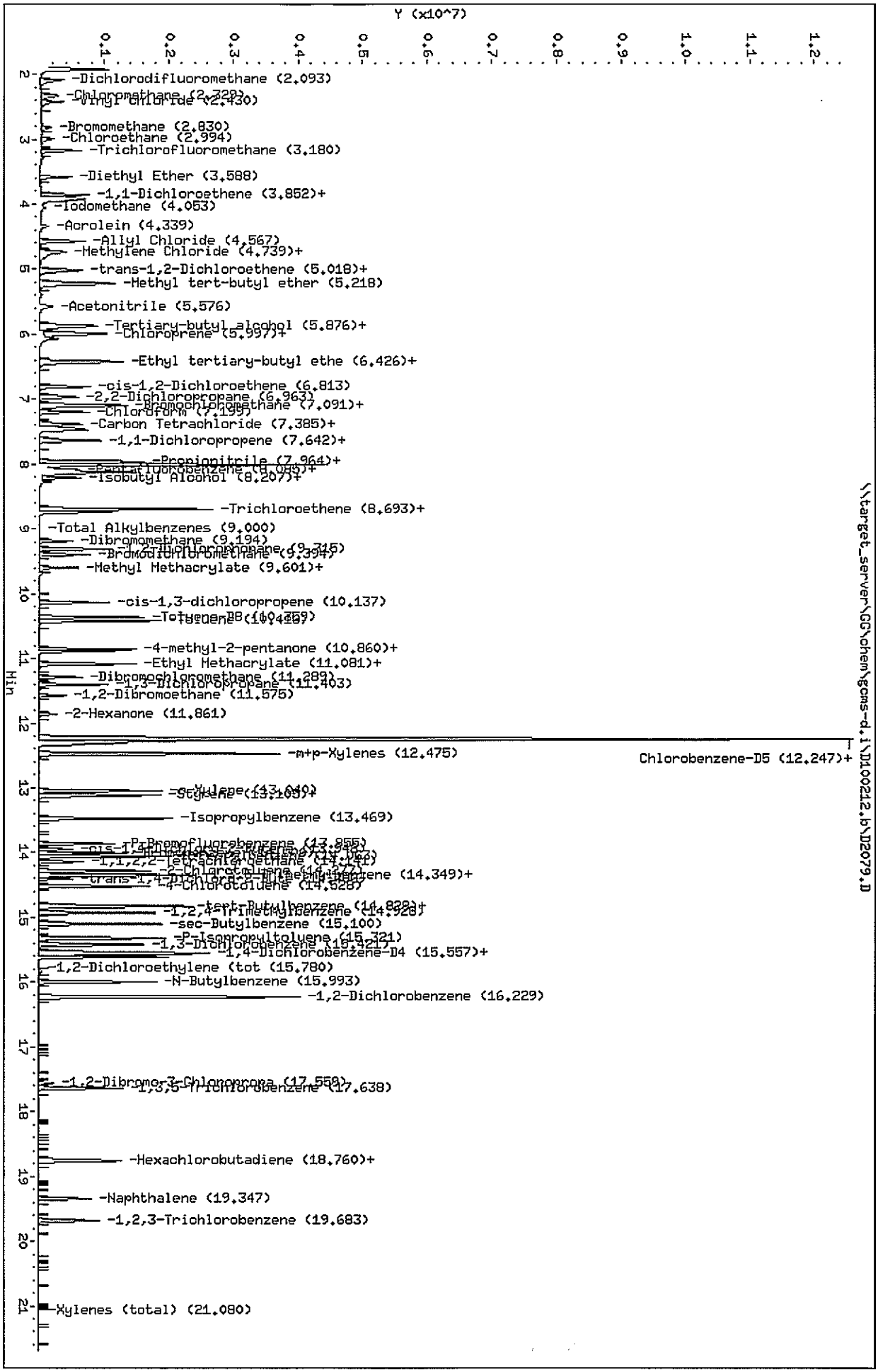
			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	6.011	6.033	(0.744)	563992	55.1299	55.1	
	26	Acrylonitrile	52	6.076	6.098	(0.751)	228561	279.160	279	
	27	Ethyl tertiary-butyl ether	59	6.426	6.441	(0.795)	902095	54.1851	54.2	
	28	Vinyl Acetate	43	6.426	6.441	(0.735)	847003	56.9681	57.0	
	29	cis-1,2-Dichloroethene	96	6.812	6.827	(0.843)	317023	58.3122	58.3	
M	30	1,2-Dichloroethylene (total)	96				599040	111.652	112	
	31	Methyl Methacrylate	41	9.593	9.615	(1.097)	303608	51.6287	51.6	
	32	2,2-Dichloropropane	77	6.962	6.984	(0.861)	334987	44.6523	44.6	
	33	Bromochloromethane	128	7.084	7.099	(0.876)	125208	54.1402	54.1	
	34	Chloroform	83	7.198	7.220	(0.890)	496572	54.2156	54.2	
	35	Carbon Tetrachloride	117	7.384	7.399	(0.845)	381151	56.2255	56.2	
	36	Tetrahydrofuran	42	7.413	7.420	(0.917)	78032	51.7009	51.7	
$	37	Dibromofluoromethane	113	7.441	7.463	(0.920)	248791	51.4507	51.4	
	38	1,1,1-Trichloroethane	97	7.470	7.492	(0.924)	448045	54.4024	54.4	
	39	1,1-Dichloropropene	75	7.641	7.656	(0.874)	430918	55.6350	55.6	
	40	2-Butanone	43	7.613	7.628	(0.942)	118656	49.8387	49.8	
	41	Benzene	78	7.963	7.978	(0.911)	1233974	56.0443	56.0	
*	42	Pentafluorobenzene	168	8.085	8.100	(1.000)	488312	50.0000		
	43	Cyclohexane	56	7.098	7.120	(0.878)	618842	63.5176	63.5	
	44	Ethyl Methacrylate	69	11.088	11.103	(1.268)	344214	51.5809	51.6	
$	45	1,2-Dichloroethane-D4	65	8.121	8.143	(1.004)	336446	51.5371	51.5	
	46	Tertiary-amyl methyl ether	73	8.135	8.150	(1.006)	662875	52.6448	52.6	
	47	1,2-Dichloroethane	62	8.206	8.228	(0.939)	438107	53.9028	53.9	
	48	Trichloroethene	95	8.693	8.715	(0.994)	424266	70.1886	70.2(R)	
*	49	1,4-Difluorobenzene	114	8.743	8.757	(1.000)	811338	50.0000		
	50	Dibromomethane	93	9.193	9.208	(1.052)	170817	53.0742	53.1	
	51	1,2-Dichloropropane	63	9.315	9.329	(1.065)	311392	55.1208	55.1	
	52	Bromodichloromethane	83	9.393	9.415	(1.074)	408050	58.0023	58.0	
	53	cis-1,3-dichloropropene	75	10.137	10.152	(1.159)	466634	52.2374	52.2	
	54	1,4-Dioxane	88	9.636	9.651	(1.102)	30966	321.550	322	
$	55	Toluene-D8	98	10.359	10.373	(1.185)	995192	50.9808	51.0	
	57	Toluene	92	10.416	10.431	(1.191)	763141	53.5049	53.5	
	58	4-methyl-2-pentanone	43	10.852	10.867	(1.241)	291706	42.3890	42.4	
	59	Tetrachloroethene	164	10.866	10.881	(0.889)	241456	49.0379	49.0	
	60	trans-1,3-Dichloropropene	75	10.888	10.910	(1.245)	410567	50.0662	50.1	
	61	1,1,2-Trichloroethane	83	11.074	11.096	(1.267)	209475	54.1975	54.2	
	62	Dibromochloromethane	129	11.288	11.310	(0.923)	294080	47.8933	47.9	
	63	1,3-Dichloropropane	76	11.402	11.424	(0.933)	462592	49.8058	49.8	
	64	1,2-Dibromoethane	107	11.574	11.596	(1.324)	248642	52.9565	53.0	
	65	2-Hexanone	43	11.860	11.875	(0.970)	183053	40.3450	40.3	
*	66	Chlorobenzene-D5	117	12.225	12.240	(1.000)	802321	50.0000		
	67	Chlorobenzene	112	12.246	12.261	(1.002)	5638711	357.318	357(AR)	
	152	1-Chlorohexane	91	12.218	12.240	(0.999)	448073	48.5080	48.5	
	68	Ethylbenzene	106	12.282	12.304	(1.005)	436138	48.0765	48.1	
	69	1,1,1,2-Tetrachloroethane	131	12.325	12.340	(1.008)	278807	52.3033	52.3	
M	70	Xylenes (total)	106				1657338	154.421	154	
	71	m+p-Xylenes	106	12.475	12.490	(1.020)	1125326	102.046	102	
	72	o-Xylene	106	13.040	13.062	(1.067)	532012	52.3752	52.4	
	73	Styrene	104	13.104	13.126	(1.072)	917897	52.0052	52.0	
	74	Bromoform	173	13.133	13.155	(1.074)	171684	44.0622	44.1	
	75	Isopropylbenzene	105	13.469	13.491	(0.867)	1373905	53.7535	53.8	
$	76	P-Bromofluorobenzene	95	13.855	13.877	(1.585)	400639	49.6642	49.7	
	77	cis-1,4-Dichloro-2-Butene	53	13.948	13.970	(0.898)	120225	48.1090	48.1	
	78	trans-1,4-Dichloro-2-Butene	53	14.405	14.427	(0.927)	122785	50.1138	50.1	

Data File: \\target_server\GG\chem\gcms-d.i\D100212.b\D2079.D
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	79 Bromobenzene	156	14.005	14.027	(0.902)	336144	50.1220	50.1	
	80 N-Propylbenzene	91	14.062	14.077	(0.905)	1698021	54.0872	54.1	
	81 1,1,2,2-Tetrachloroethane	83	14.141	14.163	(0.910)	328637	48.2674	48.3	
	82 1,3,5-Trimethylbenzene	105	14.348	14.370	(0.924)	1101523	49.2008	49.2	
	83 2-Chlorotoluene	91	14.277	14.299	(0.919)	984508	51.4943	51.5	
	84 1,2,3-Trichloropropane	75	14.341	14.363	(0.923)	276073	49.8151	49.8	
	85 4-Chlorotoluene	91	14.527	14.542	(0.935)	1037136	52.7076	52.7	
	86 tert-Butylbenzene	119	14.820	14.842	(0.954)	1147608	54.4682	54.5	
	87 Pentachloroethane	117	14.842	14.864	(0.955)	248565	54.0779	54.1	
	88 1,2,4-Trimethylbenzene	105	14.935	14.949	(0.961)	1105354	49.7957	49.8	
	89 P-Isopropyltoluene	119	15.321	15.343	(0.986)	1200939	53.4284	53.4	
	90 1,3-Dichlorobenzene	146	15.421	15.443	(0.993)	677992	54.5874	54.6	
*	91 1,4-Dichlorobenzene-D4	152	15.535	15.557	(1.000)	456419	50.0000		
	92 1,4-Dichlorobenzene	146	15.557	15.579	(1.001)	951324	69.1580	69.2(R)	
	93 N-Butylbenzene	91	15.993	16.015	(1.029)	1091644	50.5266	50.5	
	94 sec-Butylbenzene	105	15.099	15.114	(0.972)	1468651	53.3138	53.3	
	95 1,2-Dichlorobenzene	146	16.229	16.251	(1.045)	1581642	134.851	135(R)	
	96 1,2-Dibromo-3-Chloropropane	75	17.559	17.581	(1.130)	52681	47.0548	47.0	
	97 1,3,5-Trichlorobenzene	180	17.637	17.659	(1.135)	413935	48.5764	48.6	
	98 Hexachlorobutadiene	225	18.746	18.760	(1.207)	137187	43.8583	43.8	
	99 1,2,4-Trichlorobenzene	180	18.767	18.789	(1.208)	334238	48.4545	48.4	
	100 1,2,3-Trimethylbenzene	105	15.607	15.629	(1.005)	1178712	51.9208	51.9	
	101 Naphthalene	128	19.346	19.368	(1.245)	648601	48.6670	48.7	
	102 1,2,3-Trichlorobenzene	180	19.682	19.704	(1.267)	292157	51.7400	51.7	
	103 Methyl Acetate	43	5.046	5.068	(0.624)	210629	50.9219	50.9	
	104 Methylcyclohexane	83	8.693	8.707	(1.075)	510157	62.8608	62.9(R)	
M	153 Total Alkylbenzenes	100				8813740	364.821	365	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.



Data File: \\target_server\GC\chem\gcms-d.i\D100212.b\D2079.D
Date : 02-OCT-2012 20:28
Client ID:
Sample Info: WG114264-5,SF6628
Purge Volume: 5.0
Column phase: RTX-VMS

\\target_server\GC\chem\gcms-d.i\D100212.b\D2079.D
Instrument: gcms-d.i
Operator: REC
Column diameter: 0.18

Data File: \\target_server\GG\chem\gcms-d.i\D100212.b\D2080.D
Report Date: 15-Oct-2012 11:08

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-d.i\D100212.b\D2080.D
Lab Smp Id: WG114264-6+
Inj Date : 02-OCT-2012 20:57 MS Autotune Date: 05-MAR-2010 09:29
Operator : REC Inst ID: gcms-d.i
Smp Info : WG114264-6,SF6628
Misc Info : WG114264,WG114145-4,SF6628-6
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D100212.b\D826A10.m
Meth Date : 15-Oct-2012 11:00 gcms-d.i Quant Type: ISTD
Cal Date : 28-SEP-2012 13:32 Cal File: D2001.D
Als bottle: 22 QC Sample: MSD
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	2.094	2.108	(0.259)	433147	90.6109	90.6(R)	
2	Chloromethane	50	2.330	2.344	(0.288)	530339	59.8214	59.8	
3	Vinyl chloride	62	2.430	2.444	(0.301)	475858	70.5354	70.5	
4	Bromomethane	94	2.830	2.844	(0.350)	139571	54.1220	54.1	
5	Chloroethane	64	2.988	3.009	(0.370)	253557	58.7176	58.7	
6	Trichlorofluoromethane	101	3.174	3.195	(0.393)	559868	67.4811	67.5	
7	Diethyl Ether	59	3.588	3.602	(0.444)	278944	57.5887	57.6	
8	Tertiary-butyl alcohol	59	5.869	5.890	(0.726)	119982	275.426	275	
9	1,1-Dichloroethene	96	3.853	3.874	(0.477)	268629	62.1859	62.2	
10	Carbon Disulfide	76	3.896	3.917	(0.482)	974663	60.2185	60.2	
11	Freon-113	151	3.931	3.945	(0.486)	194281	63.0187	63.0(R)	
12	Iodomethane	142	4.053	4.074	(0.501)	132017	43.3715	43.4	
13	Acrolein	56	4.339	4.360	(0.537)	127185	265.858	266	
14	Methylene Chloride	84	4.739	4.761	(0.586)	293538	52.8658	52.9	
15	Acetone	43	4.811	4.832	(0.595)	74722	51.8393	51.8	
16	Isobutyl Alcohol	43	8.264	8.286	(1.022)	127627	978.069	978	
17	trans-1,2-Dichloroethene	96	5.011	5.039	(0.620)	292839	54.3070	54.3	
18	Allyl Chloride	41	4.568	4.589	(0.565)	618435	61.3916	61.4(R)	
19	Methyl tert-butyl ether	73	5.218	5.240	(0.645)	1442707	109.869	110	
20	Acetonitrile	39	5.569	5.597	(0.689)	71178	553.718	554	
21	Di-isopropyl ether	45	5.869	5.890	(0.726)	1290476	56.6931	56.7	
22	Chloroprene	53	5.984	6.005	(0.740)	690472	58.6176	58.6	
23	Propionitrile	54	7.971	7.992	(0.986)	372898	565.202	565	
24	Methacrylonitrile	41	8.007	8.028	(0.990)	2308943	616.935	617(R)	

Data File: \\target_server\GG\chem\gcms-d.i\D100212.b\D2080.D
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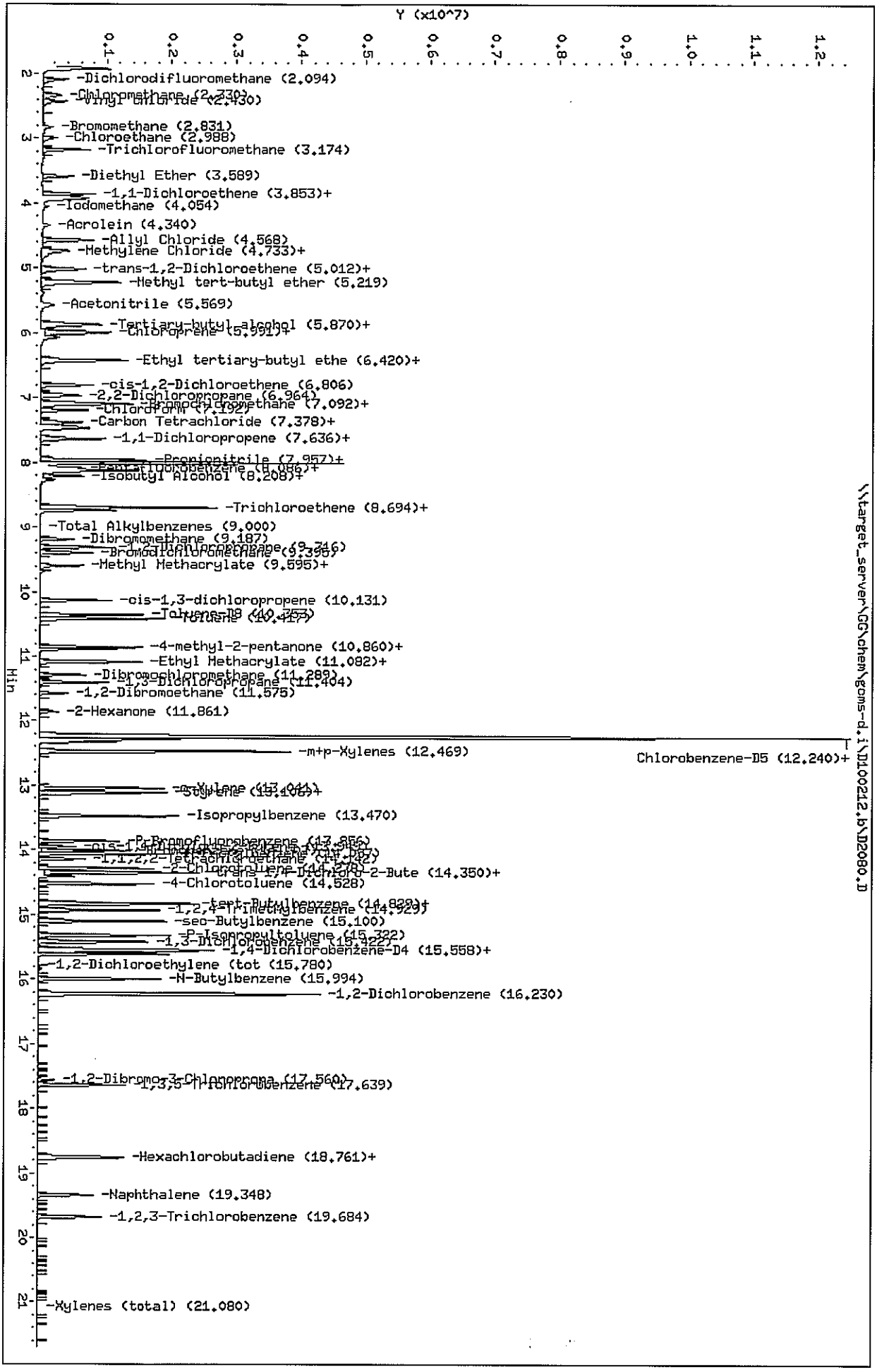
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.012	6.033	(0.744)	590148	56.5621	56.6	
	26 Acrylonitrile	52	6.077	6.098	(0.752)	238939	286.147	286	
	27 Ethyl tertiary-butyl ether	59	6.427	6.441	(0.795)	941310	55.4385	55.4	
	28 Vinyl Acetate	43	6.420	6.441	(0.735)	871973	57.5328	57.5	
	29 cis-1,2-Dichloroethene	96	6.806	6.827	(0.842)	332536	59.9733	60.0	
M	30 1,2-Dichloroethylene (total)	96				625375	114.280	114	
	31 Methyl Methacrylate	41	9.594	9.615	(1.098)	319354	53.2217	53.2	
	32 2,2-Dichloropropane	77	6.963	6.984	(0.861)	345904	45.2087	45.2	
	33 Bromochloromethane	128	7.078	7.099	(0.875)	132419	56.1421	56.1	
	34 Chloroform	83	7.199	7.220	(0.890)	507552	54.3342	54.3	
	35 Carbon Tetrachloride	117	7.378	7.399	(0.845)	397310	57.4952	57.5	
	36 Tetrahydrofuran	42	7.406	7.420	(0.916)	82766	53.7685	53.8	
$	37 Dibromofluoromethane	113	7.442	7.463	(0.920)	249777	50.6477	50.6	
	38 1,1,1-Trichloroethane	97	7.471	7.492	(0.924)	467108	55.6115	55.6	
	39 1,1-Dichloropropene	75	7.635	7.656	(0.874)	438464	55.5332	55.5	
	40 2-Butanone	43	7.607	7.628	(0.941)	127317	52.4341	52.4	
	41 Benzene	78	7.957	7.978	(0.911)	1254347	55.8867	55.9	
*	42 Pentafluorobenzene	168	8.086	8.100	(1.000)	498020	50.0000		
	43 Cyclohexane	56	7.099	7.120	(0.878)	640971	64.5065	64.5	
	44 Ethyl Methacrylate	69	11.089	11.103	(1.269)	363175	53.3509	53.4	
$	45 1,2-Dichloroethane-D4	65	8.121	8.143	(1.004)	343245	51.5537	51.6	
	46 Tertiary-amyl methyl ether	73	8.129	8.150	(1.005)	690150	53.7425	53.7	
	47 1,2-Dichloroethane	62	8.207	8.228	(0.939)	450529	54.3775	54.4	
	48 Trichloroethene	95	8.693	8.715	(0.995)	453256	73.5592	73.6(R)	
*	49 1,4-Difluorobenzene	114	8.736	8.757	(1.000)	827059	50.0000		
	50 Dibromomethane	93	9.187	9.208	(1.052)	172938	52.7118	52.7	
	51 1,2-Dichloropropane	63	9.316	9.329	(1.066)	321248	55.7846	55.8	
	52 Bromodichloromethane	83	9.394	9.415	(1.075)	417642	58.2373	58.2	
	53 cis-1,3-dichloropropene	75	10.131	10.152	(1.160)	479416	52.6482	52.6	
	54 1,4-Dioxane	88	9.630	9.651	(1.102)	37479	381.783	382	
$	55 Toluene-D8	98	10.352	10.373	(1.185)	1012289	50.8709	50.9	
	57 Toluene	92	10.417	10.431	(1.192)	792723	54.5225	54.5	
	58 4-methyl-2-pentanone	43	10.853	10.867	(1.242)	307551	44.2689	44.3	
	59 Tetrachloroethene	164	10.860	10.881	(0.889)	256034	50.4498	50.4	
	60 trans-1,3-Dichloropropene	75	10.889	10.910	(1.246)	429057	51.2954	51.3	
	61 1,1,2-Trichloroethane	83	11.074	11.096	(1.268)	214775	54.5125	54.5	
	62 Dibromochloromethane	129	11.289	11.310	(0.924)	298663	47.2193	47.2	
	63 1,3-Dichloropropane	76	11.403	11.424	(0.933)	474965	49.6149	49.6	
	64 1,2-Dibromoethane	107	11.575	11.596	(1.325)	256400	53.5708	53.6	
	65 2-Hexanone	43	11.854	11.875	(0.970)	198751	42.6784	42.7	
*	66 Chlorobenzene-D5	117	12.218	12.240	(1.000)	826951	50.0000		
	67 Chlorobenzene	112	12.247	12.261	(1.002)	5491407	337.619	338(AR)	
	152 1-Chlorohexane	91	12.218	12.240	(1.000)	460463	48.3646	48.4	
	68 Ethylbenzene	106	12.283	12.304	(1.005)	445462	47.6418	47.6	
	69 1,1,1,2-Tetrachloroethane	131	12.319	12.340	(1.008)	285578	51.9779	52.0	
M	70 Xylenes (total)	106				1689141	152.722	153	
	71 m+p-Xylenes	106	12.469	12.490	(1.020)	1143483	100.604	101	
	72 o-Xylene	106	13.041	13.062	(1.067)	545658	52.1186	52.1	
	73 Styrene	104	13.105	13.126	(1.073)	937431	51.5300	51.5	
	74 Bromoform	173	13.134	13.155	(1.075)	173914	43.3484	43.3	
	75 Isopropylbenzene	105	13.470	13.491	(0.867)	1409580	54.3990	54.4	
$	76 P-Bromofluorobenzene	95	13.856	13.877	(1.586)	417419	50.7607	50.8	
	77 cis-1,4-Dichloro-2-Butene	53	13.949	13.970	(0.898)	123772	48.8546	48.8	
	78 trans-1,4-Dichloro-2-Butene	53	14.406	14.427	(0.927)	124505	50.1244	50.1	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	79 Bromobenzene	156	14.006	14.027	(0.902)	339751	49.9707	50.0	
	80 N-Propylbenzene	91	14.056	14.077	(0.905)	1705142	53.5751	53.6	
	81 1,1,2,2-Tetrachloroethane	83	14.142	14.163	(0.910)	340957	49.3956	49.4	
	82 1,3,5-Trimethylbenzene	105	14.349	14.370	(0.924)	1127054	49.6563	49.6	
	83 2-Chlorotoluene	91	14.278	14.299	(0.919)	1007291	51.9692	52.0	
	84 1,2,3-Trichloropropane	75	14.342	14.363	(0.923)	284633	50.6609	50.7	
	85 4-Chlorotoluene	91	14.528	14.542	(0.935)	1061493	53.2115	53.2	
	86 tert-Butylbenzene	119	14.821	14.842	(0.954)	1170945	54.8198	54.8	
	87 Pentachloroethane	117	14.843	14.864	(0.955)	251560	53.9850	54.0	
	88 1,2,4-Trimethylbenzene	105	14.936	14.949	(0.961)	1137440	50.5440	50.5	
	89 P-Isopropyltoluene	119	15.322	15.343	(0.986)	1230761	54.0102	54.0	
	90 1,3-Dichlorobenzene	146	15.422	15.443	(0.993)	693681	55.0907	55.1	
*	91 1,4-Dichlorobenzene-D4	152	15.536	15.557	(1.000)	462714	50.0000		
	92 1,4-Dichlorobenzene	146	15.558	15.579	(1.001)	969656	69.5317	69.5(R)	
	93 N-Butylbenzene	91	15.994	16.015	(1.029)	1114443	50.8801	50.9	
	94 sec-Butylbenzene	105	15.100	15.114	(0.972)	1493290	53.4707	53.5	
	95 1,2-Dichlorobenzene	146	16.230	16.251	(1.045)	1691027	142.216	142(R)	
	96 1,2-Dibromo-3-Chloropropane	75	17.560	17.581	(1.130)	55788	49.0631	49.1	
	97 1,3,5-Trichlorobenzene	180	17.638	17.659	(1.135)	417036	48.2745	48.3	
	98 Hexachlorobutadiene	225	18.747	18.760	(1.207)	143971	45.3717	45.4	
	99 1,2,4-Trichlorobenzene	180	18.768	18.789	(1.208)	339784	48.5883	48.6	
	100 1,2,3-Trimethylbenzene	105	15.608	15.629	(1.005)	1191947	51.7895	51.8	
	101 Naphthalene	128	19.347	19.368	(1.245)	680088	50.2962	50.3	
	102 1,2,3-Trichlorobenzene	180	19.683	19.704	(1.267)	299331	52.2893	52.3	
	103 Methyl Acetate	43	5.047	5.068	(0.624)	216318	51.2778	51.3	
	104 Methylcyclohexane	83	8.693	8.707	(1.075)	515743	62.3103	62.3	
M	153 Total Alkylbenzenes	100				8979075	366.956	367	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.


Y (x10^7)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
-Dichlorodifluoromethane (2.094)
-Chloromethane (2.330)
-Vinyl Chloride (2.430)
-Bromomethane (2.831)
-Chloroethane (2.988)
-Trichlorofluoromethane (3.174)
-Diethyl Ether (3.589)
-1,1-Dichloroethene (3.853)+
-Iodomethane (4.054)
-Acrolein (4.340)
-Allyl Chloride (4.568)
-Methylene Chloride (4.733)+
-trans-1,2-Dichloroethene (5.012)+
-Methyl tert-butyl ether (5.219)
-Acetonitrile (5.569)
-Tertiary-butyl alcohol (5.870)+
-Chloroprene (5.991)+
-Ethyl tertiary-butyl ethe (6.420)+
-cis-1,2-Dichloroethene (6.806)
-2,2-Dichloropropane (6.964)
-Bromochloromethane (7.092)+
-Chloroform (7.192)
-Carbon Tetrachloride (7.378)+
-1,1-Dichloropropene (7.636)+
-Propionitrile (7.957)+
-Fluorobenzene (8.066)+
-Isobutyl Alcohol (8.208)+
-Trichloroethene (8.694)+
-Total Alkylbenzenes (9.000)
-Dibromomethane (9.187)
-1,2-Dichloropropane (9.346)
-Bromodichloromethane (9.396)
-Methyl Methacrylate (9.595)+
-cis-1,3-dichloropropene (10.131)
-Toluene-D8 (10.353)
-Toluene (10.417)
-4-methyl-2-pentanone (10.860)+
-Ethyl Methacrylate (11.082)+
-Dibromochloromethane (11.289)
-1,3-Dichloropropane (11.404)
-1,2-Dibromoethane (11.575)
-2-Hexanone (11.861)
-m+p-Xylenes (12.469)
Chlorobenzene-D5 (12.240)+
-o-Xylene (13.041)
-Styrene (13.106)+
-Isopropylbenzene (13.470)
-Bromofluorobenzene (13.856)
-1,1,2,2-Tetrachloroethane (14.242)
-2-Chlorotoluene (14.278)
-4-Chlorotoluene (14.528)
-tert-Butylbenzene (14.838)+
-1,2,4-Trimethylbenzene (14.929)
-sec-Butylbenzene (15.100)
-p-Isopropyltoluene (15.322)
-1,3-Dichlorobenzene (15.422)
-1,4-Dichlorobenzene-D4 (15.558)+
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (15.994)
-1,2-Dichlorobenzene (16.230)
-1,2-Dibromo-3-Chloropropa (17.560)
-1,3,5-Trichlorobenzene (17.639)
-Hexachlorobutadiene (18.761)+
-Naphthalene (19.348)
-1,2,3-Trichlorobenzene (19.684)
-Xylenes (total) (21.080)
\\target_server\GC\chem\goms-d.i\D100212.b\D2080.D
Data File: \\target_server\GC\chem\goms-d.i\D100212.b\D2080.D
Date : 02-OCT-2012 20:57
Client ID:
Sample Info: WG114264-6,SF662B
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: goms-d.i
Operator: REC
Column diameter: 0.18

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES

GCMS-D INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 9-28-12 948

SAMPLE NAME	DATAFILE	DF	ALS#	METHOD	PREP METHOD: 5030	5035	1311	% Criteria: KAS	DoD	QAPP	Y/N	ANALYST	PH	S	COMMENTS
50ng BFB WG114145-9	D0994	1	-1	V0A8C8A8Q							Y	REC/DJP			(a) D0624910
VSTD050D28A -4	D1995(a)	1	1	D826A10							Y				WG114146
VSTD200D28A -6	96(a)	1	2								Y				
VSTD100D28A -5	97	1	3								N				
VSTD020D28A -3	98(a)	1	4								Y				
VSTD005D28A -2	99(a)	1	5								Y				
VSTD001D28A -1	D2000(a)	1	6								Y				
VSTD100D28AB -5	01	1	7								Y				IND SOURCE: -10
LCSA -7	02(a)	1	8								N				
VBLKA	03	1	9								N				
B	04	1	10								Y				
C -8	05	1	11								Y				800uL→400mL
MeOHBLK -11	06	1	12								Y				80uL→40mL
SF6516-3DL2 C	07	1	13						X		Y		<2		40uL→40mL
SF6459-8DL2	08	1000	14		X			X			Y		<2		DL 1:4
SF6362-21 A	09	1	15						X		Y		<2		
-22 A	10	1	16								Y		<2		
-23 A	11	1	17								Y		<2		
-24 A	12	1	18								Y		<2		AF added
SF6441-1 B	13	1	19					X			Y		<2		AF added DL 1:4
SF6442-1RA B	14	1	20								Y		4		AF added
SF6443-1 B	15	1	21								Y		<2		WG114145-12
SF6362-23MSB	16	1	22						X		Y		<2		↓ -13 2137 ✓
-23MSD C	17	1	23								N		2		
RINSE	18	1	24								N				
RINSE	19	1	25												

STANDARD	CODE
BFB	V8635
CAL. STD.	V8640 / V8641
LCS/MS MIX	V8639
EXTRAS MIX	V8631

STANDARD	CODE
IS MIX	V8636
SS MIX	V8642

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

QAMS507

0000004

Katahdin Analytical Services 1000228

KATAHDIN ANALYTICAL SERVICES

GCMS-D INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 10/2/2012 1000

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50ng BFB -7	D8996	1	-1	V0A8FBAQ							Y	RBC/DJP		
VSTD050D02A -8	D2059	1	1	D826A10							Y			
LCSA WG114264-1	60	1	2								Y			
VBLKA	61	1	3								N			
VBLKB	62	1	4								N			
VBLKC -2	63	1	5								Y			
SF6628-1 A	64	1	6		X				X		Y		<2	
SF6626-5 A	65	1	7								Y		<2	
SF6626-1DL A	66	4	8								Y		<2	
-2 A	67	1	9								Y		<2	
-3 A	68	1	10								Y		<2	
-4 A	69	1	11								Y		<2	
SF6628-6DL A	70	5	12								Y		<2	
-2 A	71	1	13								Y		<2	
-3 A	72	1	14								Y		<2	
-4 A	73	1	15								Y		<2	
-5 A	74	1	16								Y		<2	
SF6626-1 B	75	1	17								Y		<2	~~DL 1x4~~ DJP 10031
SF6628-6 D	76	1	18								Y		<2	WG114264-3
SF6515-2MS D	77	1	19								Y		<2	-4
-2MSD E	78	1	20								Y		<2	-5
SF6628-6MS B	79	1	21								Y		<2	-6 2057
-6MSD C	80	1	22								N		—	
Rinse	81	1	23								N			
VSTD020D02A	D2082	1	24	D824a10							Y		2	
VSTD020D02B	D2083	1	25											

STANDARD	CODE
BFB	V8635
CAL. STD.	V8640/V8641
LCS/MS MIX	V8644
EXTRAS MIX	V8631

STANDARD	CODE
IS MIX	V8636
SS MIX	V8642

Circle Methods:

(SW846 8260)	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

QAMS507

0000009

Katahdin Analytical Services 1000229

KATAHDIN ANALYTICAL SERVICES

GCMS-D INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 10/03/2012 9:30

					PREP METHOD			Criteria						
SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	5030	5035	1311	KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -3	DB997	1	-1	VOABFBAQ							Y	REC		
VSTD050D03A -4	D2099	1	1	D826A10							Y			
LCSA WG114326-1	D2100	1	2								Y			
VBLKA	01	1	3								N			
VBLKB	02	1	4								N			
VBLKC -2	03	1	5								Y			
MEOHBLK -5	04	1	6								Y			
SF6568-1RA B	05	1	7		X			X			Y		<2	
SF6623-1RA C	06	1	8								Y		<2	
SF6645-3DL B	07	10	9								Y		<2	
SF6570-3DL2	08	1	10								Y			
-5 DL2	09	1	11								Y			
-7 DL2	10	1	12								Y			
SF6628-7 A	11	1	13		X				X		Y		<2	DL 1:4
-8 A	12	1	14								N		<2	RAGE OK
-9 A	13	1	15								N		<2	RAGE OK
-10 A	14	1	16								Y		<2	
SF6726-1DL A	15	20	17				X				Y		<2	
SF6746-1	16	1	18		X			X			Y		<2	
-2	17	1	19								Y		<2	
SF6763-1DL	18	100	20								N		<2	
-2DL	19	20	21								Y		<2	
-1DL2	20	10	22								Y		<2	MS str @ end
-2DL2	21	2	23								Y		<2	20:38
Rinse	D2122	1	24								N		—	
Rinse	D2123	1	25								N		—	

STANDARD	CODE
BFB	V8635
CAL. STD.	V8640/ V8641
LCS/MS MIX	V8644
EXTRAS MIX	V8631

STANDARD	CODE
IS MIX	V8636
SS MIX	V8642

Circle Methods:

(SW846 8260)	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM	EPA 624
(heated purge)	EPA 524

Katahdin Analytical Services 1000230

KATAHDIN ANALYTICAL SERVICES

GCMS-D INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 10/4/2012 10:09

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -3	DB998	1	-1	VOABFBAQ							Y	REC		
VSTD050D04A -4	D2124	1	1	D826A10							Y			
LCSA	25	1	2								N			
LCSB W6114400-1	26	1	3								Y			
VBLKA	27	1	4								N			
VBLKB	28	1	5								N			
VBLKC -2	29	1	6								Y			
SF6802-2DL	30	20	7		X			X	X		Y		<2	
-1DL	31	20	8		↓			↓	↓		Y		<2	
Rinse	32	1	9								N		—	
SF6804-4 A	33	1	10		X			X			Y		<2	
SF6763-9 A	34	1	11					↓			Y		<2	
SF6628-7DL B	35	4	12					x	x		Y		<2	10mL→40mL
SF6763-4 A	36	1	13					X			Y		<2	
-5 A	37	1	14								Y		<2	
-6 A	38	1	15								Y		<2	
-7 A	39	1	16								Y		<2	
-8 A	40	1	17					↓			Y		<2	
SF6804-1 A	41	1	18					X			Y		4	
-2 A	42	1	19								Y		<2	DL 1:100
-3 A	43	1	20					↓			N		<2	RACO
SF6763-3 A	44	1	21					X			N		<2	RACO 21:48
-1 B	45	1	22		↓			↓			N		<2	RACO DOC 22:17
Rinse	46	1	23								N		—	
Rinse	D2147	1	24								N		—	
														10/5/2012 REC

STANDARD	CODE
BFB	V8635
CAL. STD.	V8640/V8641
LCS/MS MIX	V8644
EXTRAS MIX	V8631

STANDARD	CODE
IS MIX	V8636
SS MIX	V8642

Circle Methods:

(SW846 8260)	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

Katahdin Analytical Services 1000231